IEEE Website Requirements Specification Document

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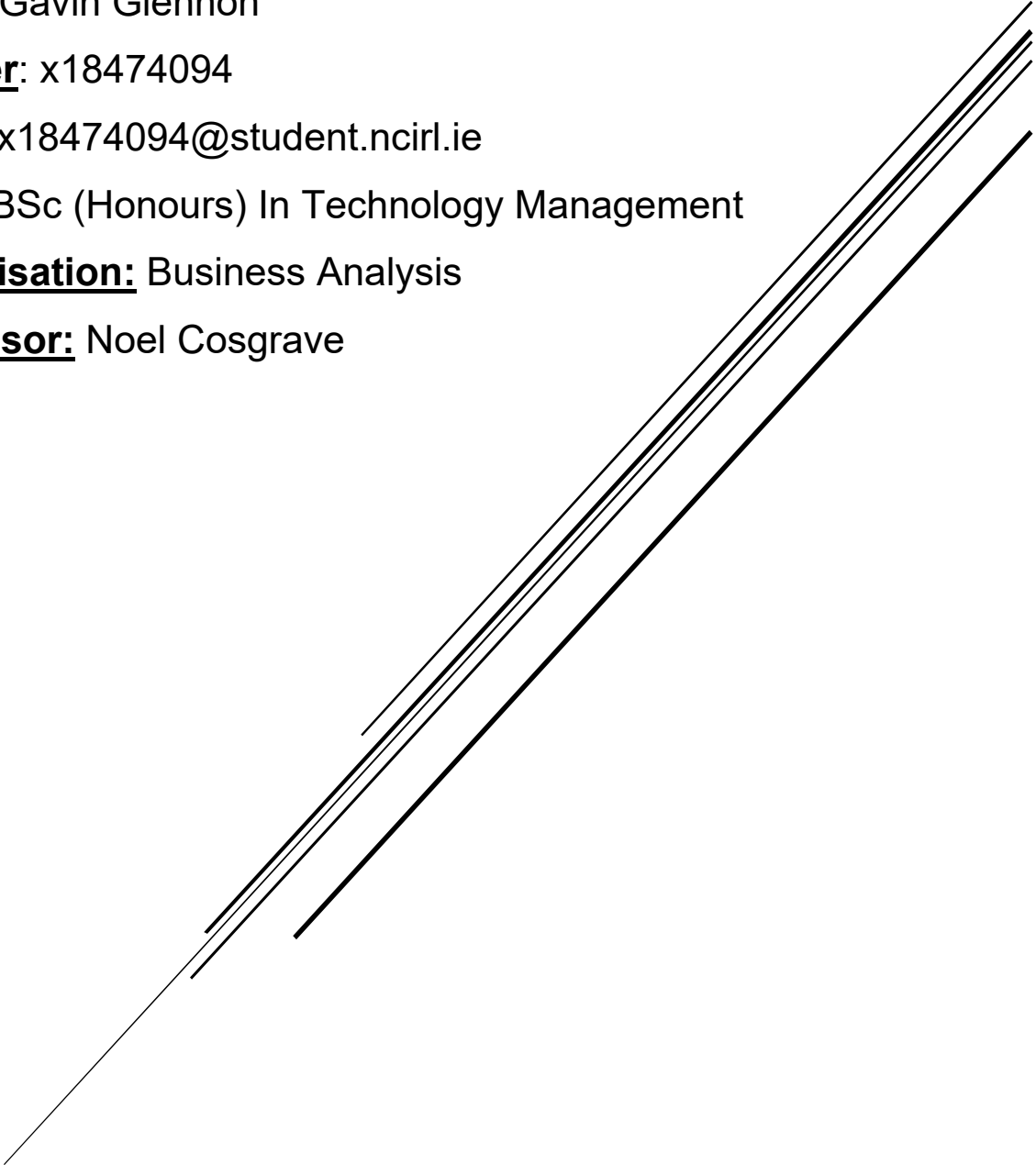
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Course Name: BSc (Honours) In Technology Management

Course Specialisation: Business Analysis

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National College of Ireland
BSc (Honours) in Technology Management

SECTION 1 *Student to complete*

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SECTION 2 Confirmation of Authorship

The acceptance of your work is subject to your signature on the following declaration:

I confirm that I have read the College statement on plagiarism (summarized overleaf and printed in full in the Student Handbook) and that the work I have submitted for this assessment is entirely my own work.

Signature: Gavin Glennon
Date: 14th May 2022

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- That a student's marks shall be reduced.

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Further penalties are also possible including:

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- Expelling a student from college.

- Prohibiting a student from sitting any examination or assessment.

- The imposition of a fine.

- The requirement that a student to attend additional or other lectures or courses or undertake additional academic work.

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1. Executive Summary

Irish golfers have been using traditional booking methods for their golf trips and as technology gets better, I believe these booking methods should also. Golf is a popular sport in Ireland with over 300 courses on the island. I came up with this application idea when I tried booking a trip to a local golf course, but I noticed that they only had a phone number and a basic website. I did not think that this booking method was appealing at all, and I thought to myself *"what could help this golf club's booking method be more appealing".* The solution I came up with was GetAway&Golf. This application aims to help golf clubs all over the country promote their business at no additional cost. But why stop there, after a few of our elicitation techniques were conducted and summarized, we concluded that the transport companies should be able to promote their business via GetAway&Golf. Our goal is to help Irish golf clubs, golfers, and transport companies in the best way we can.

At the beginning of this project, I researched and built stakeholder list. This was then followed by the building of a stakeholder matrix to determine how important our stakeholders are. After this, we went into the planning phase where we decided to select suitable stakeholders to participate in our elicitation techniques. Throughout this document I conducted a total of six elicitation techniques: Survey, brainstorming session, interviews, prototyping, and a requirements workshop. The elicitation results were analyzed and concluded to help me build a list of functional and non-functional requirements for our IEEE specification section at the end of the document. The IEEE document alongside some of the elicitation results should be analyzed by a development team to develop the GetAway&Golf application.

2. Requirements Elicitation & Analysis Planning

2.1   Introduction

GetAway&Golf is an application for the Irish golf market. It will be necessary for the development of the app to gather, analyse, and document functional and non-functional requirements. The reason I have chosen to build this application is because I am a keen golfer and I feel that we need this type of application to take our golf experience to the next level. This applications demographic is aimed at Irish and International golfers. Another reason behind picking this project is due to lack of golfers exploring golfing opportunities at a good deal around Ireland. Other business ideas that compare to this are Carr Golf, Cassidy Golf and Golf Now, but they tailor for either international golfers visiting Ireland or for Irish golfers going abroad or don't have our additional transport or communication features. The only comparable business model is TeeTimes.ie, and Golf Now and I had never heard of them and I think that is to do with their basic design and lack of marketing.

GetAway&Golf aims to integrate with all the golf clubs in Ireland to offer golfers deals to encourage them to golf outside of their home club. Unlike its competitors, we aim to build an application in the future for both the Google Play Store and Apple's App Store that mirrors our web application. This web application will include the following features for our users:

- Personal Profile
- Interactive map for information on your golf club of choice
- Booking system for golf clubs for tee times, food, and transport
- Top Deals section that will filter the best deals that is filtered by cheap prices and the location by the user.

This project will include a large amount of stakeholder input for design, features and general feedback about the application. I will be conducting a various amount of elicitation techniques to retrieve feedback from stakeholders. When gathering requirements, numerous elicitation techniques are to be used to obtain as much information as possible. I plan to conduct the following elicitation techniques:

Brainstorming sessions with various stakeholders from an very early stage of the project to gain different perspectives of what the application should look like and what features they would want included.

Interviews will also be another key elicitation technique that will be used in this project. This will allow the key stakeholders to give their opinions on the requirements that they feel be essential in this applications success. Multiple interviews will take place with the main stakeholders to meet as many requirements as we can.

Surveys are a huge part of this project as they will be utilized for gathering requirements across all the stakeholders rather than the key ones in the other elicitation techniques. This is because it is easier to send out a survey to a large amount of stakeholders instead of interviewing all of them as it would take too much time.

Prototyping will initially occur through the use of wireframes, and a basic prototype of the application. I will then gather feedback from my requirements workshop and will then act on such feedback until we have reached all the requirements required by the stakeholders.

Requirements workshops will take place after my brainstorm, interviews, prototype and survey techniques have been conducted. I will then present the key stakeholders with my prototype that I have changed to meet their requirements.

Interface analysis - In order to determine the requirements for ensuring that the components interact effectively, I will use interface analysis to determine the interfaces between the solutions. Additionally, it will facilitate the process of defining interoperability requirements.

Throughout this project, our business needs and elicitation techniques may be altered due to a new change of direction for our application. In some of the techniques above, it is evident that they will be used to shape the appearance and functionality of the application. This is why it is crucial to conduct these elicitation techniques to help the application succeed.

2.2   The Business Need:

The golfing community of Ireland has never had application of this nature. They normally would have to manually research golf courses and then book through the golf club's own website or even phone the golf club if they don't have that functionality. The demand for this application has come from the outdated methods of booking through a phone call or going to the effort of manually researching prices, course ratings, etc. Everyone wants to use an application that saves them time, an example of this is hostel world, they offer ratings and prices with a booking system for their users and it is the most popular application for booking accommodation for hostels as it saves the users time as they don't have to manually research hostels in that region.

The app store has never seen an application like this, and even though it is somewhat comparable with Carr Golf and Cassidy Golf, and teetimes.ie, it differs in a lot of ways than it is similar. Due to the fact that that these comparable businesses are not really used often by golfers in Ireland, this has a high increase of pressure in developing this application. I want to encourage all the golfers in Ireland to book through this application when they are booking a round of golf, and I will only get to that point by listening to what they want. This is why I feel that there is a strong case for this type of business in the market as I am a keen golfer myself and if this had been proposed to me by another person, I would be very happy such an application was being built. Comparable Businesses and how they differ from Getaway&Golf:

Cassidy Golf:

- Doesn't have all the courses in Ireland

- Does not offer a booking system for public timesheets

- Is not frequently updated

Carr Golf:

- Aims at foreign golfers playing Irelands premium clubs at a premium price for packages

- Does not offer a booking system for public timesheets

- Doesn't have all the courses in Ireland

TeeTime.ie:

- Old design

- No map filtering feature

- Not frequently updated

- No transport information or booking option

In Conclusion, my application differs to the top 3 competitors in more ways than one. I believe this signifies that there is a gap in the market for such an application.

Approach:

An Agile approach would better suit the GetAway&Golf project, given that requirements could change. Through an agile approach, the GetAway&Golf app will facilitate change and allow stakeholders to add new requirements or alter old ones along the way, as opposed to a waterfall approach where requirements are set at the beginning and can add significantly to the completion time.

2.3   The Business case:

I decided to develop this application due to being a keen golfer and noticing a space in the market. Other countries likely have similar business models, such as America due to them having over 9,500 golf clubs compared to Ireland with 494 clubs. The reasoning for developing this application is to help Irish golfers learn about new clubs and book their golf in an easy and modern fashion. I understand their might be additional features required for this application upon meeting with my stakeholders and taking their feedback into account, and this feedback will help me make this application stand out even more than my competitors.

The application will be designed in such a way to allow the users to learn about new golf clubs, and book their golf in an easy and modern manner. I hope to include as many features required by the stakeholders as possible. The development of this application is set to benefit Irish golfers and help them view, book, and manage their golf in one place. Through addressing the stakeholders needs, I hope that more people will visit different clubs more frequent, which will result in more clubs staying open.

Risks have to be considered at each stage of this project, from elicitation to development. Business analysts and developers must understand the stakeholder's needs. The requirements must be complete, clear, correct and consistent. There must be an exact specification for each requirement. An in-depth interview is required to ensure that the programmer is competent. A poorly qualified programmer could undermine the entire project. If the specifications are not followed correctly, they can reduce the value of the project. A poorly executed project could result in a useless app, cause tension with stakeholders, and increase costs.

Face-to-face discussions about all requirements are essential for the success of the project. A user-friendly and easily accessible app is essential, as a user cannot make full use of an application if they are unable to use it. Upon the release of the app, it would be helpful to include a tutorial either within the app help section or externally through their social media pages. Users who wish to contribute information to the app, such as updates in regards to golf club statuses, covid restrictions, etc must be trained on how to update the app. The benefit of this is that it decreases confusion and allows important information to be uploaded more quickly. By implementing the right process to manage these risks before or when they occur, these risks can be avoided.

2.4   Stakeholders List Power/Influence Matrix:

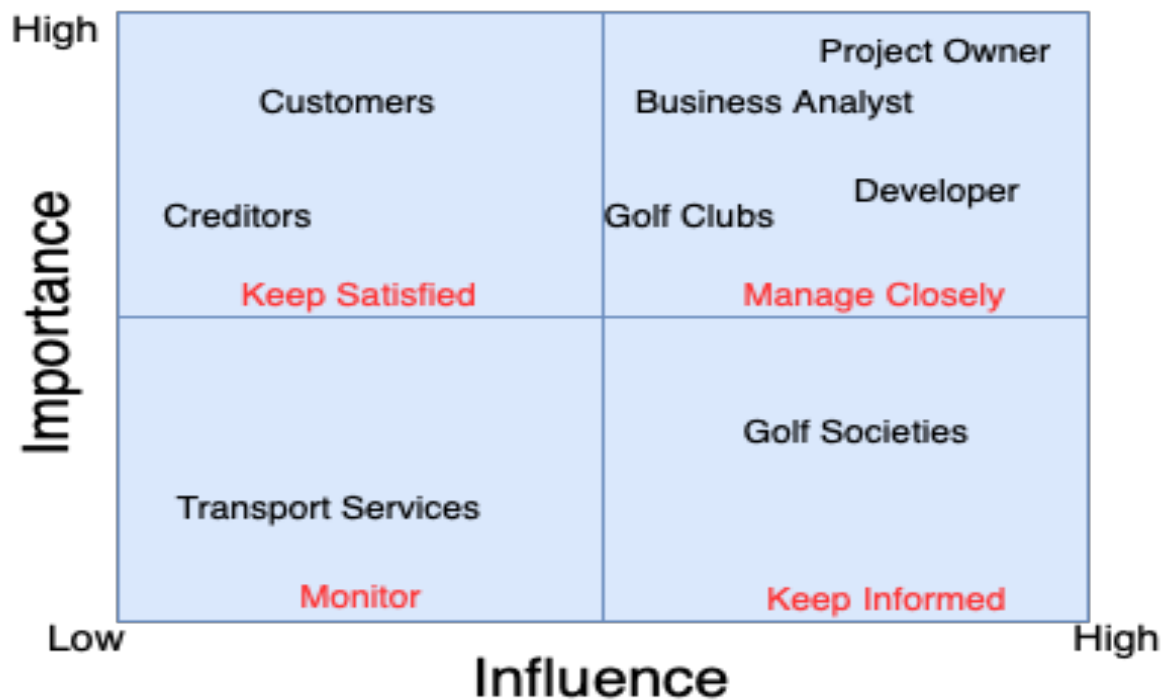A. Business Analyst

B. Project Owner

C. Developer

D. Golf Clubs

E. Customers

F. Transport services

G. Creditors

H. Golf Societies

2.5 Power/Influence Matrix:

Importance/Influence Matrix in regards to Getaway&Golf we:

In this matrix, the top right quadrant represents the most important and influential stakeholders. These stakeholders consist of the project owner, business analyst, developer, and golf clubs. The project owner is high importance/influence due to the project being there idea and therefore will be the person looking after the project and where it goes. In addition to gathering and documenting requirements for the website, the business analyst has limited influence on aspects such as design, features, and content of the application. Creating the requirements list is the responsibility of the major stakeholders.

The business analyst simply facilitates the process. The developer of this application is very important and has a high influence as they are the one building the application and it will fall on them to make sure this project is completed. Their influence is also taken into consideration as they will be suggesting features, design changes, etc. Golf clubs are the last of the most important stakeholders as they will be the ones providing the information based on their deals, club info, etc. Getting the golf clubs on board with this project is key in its success. They will also have a high

influence on what features will be in the application. The customers are very important in this project but they have low influence as the golf clubs will be the stakeholders determining what features need to be added. Therefore, the customers are very important due to the application being built for them, but they won't have as much influence as other stakeholders.

The bottom left of the quadrant is for the stakeholders who are neither important nor have a high influence on the application. We have put the transport services in here as they aren't important as their feature isn't a main one in the application.

Lastly, the bottom right quadrant is for people who are not very important but have a high influence on the business as they will use it. Golf Societies have been put in here due to the fact they will use it to book trips for large groups and will use it regularly but are not the main customer targeted.

2.6   Requirements Elicitation Techniques

2.6.1 Survey

Survey Participants:

Customers:

    a. Male Golfers

    b. Female Golfers

    c. Junior Golfers

    d. Senior Golfers

Distribution:

There were various different methods of distribution used for the survey:

    1) The survey was distributed through golf group chats, and by email.

    2) The survey was also shared using a link on various social medias such as WhatsApp, Snapchat and Instagram.

Objectives:

The goal of this survey is to gain insight in how our target audience feel about this app idea. It will also allow us analyse information about our customers that will benefit us, such as: What Platform they use, How they normally book their golf, etc. All of these questions will allow the business analyst learn more about the target audience.

Questions:

Q1: As a golfer, would you be interested in using an application that allows you manage your bookings and avail of deals in one place?

- Yes
- No
- Maybe

Q2: What platform do you currently use?

- Apple
- Android
- Other

Q3: How do you currently book golf?

- Club Website
- Phone
- Email
- Other

Q4: How many golf bookings do you make per month?

- 0 – 2
- 3 – 6
- 7 – 10
- 11+

Q5: How would you rate your current booking method?

- Great
- Okay
- Bad

Q6: How often would you check for green fee offers?

- Very Often
- Often
- Rarely
- Never

Q7: Would you book more golf trips if it was easier to view deals?

- Yes
- No
- Maybe

Q8: How interested would you be in being able to book transport within the GetAway&Golf app?

- Very Interested
- Interested

- Don't mind
- Not Interested

Q9: Would you subscribe to our newsletter that will notify you of latest offers?

- Yes
- No
- Maybe

Q10: On a scale of 1-5, 1 being the lowest. How beneficial would this application be to you?

- 1
- 2
- 3
- 4
- 5

2.6.2 Brainstorming:

Why brainstorming?

I chose brainstorming because you can gather information about the App from different perspectives. A brainstorming session will provide the opportunity for different stakeholders to voice their opinions and express how they feel about certain features.

What is the objective?

The goal of this brainstorming session is to get different types of customers to come together and discuss and debate the newly proposed GetAway&Golf application. The reasoning behind having different types of customers participating in this session to get different views on the app. The main objective of this brainstorm is to understand what features are suitable and what pages should be included in the application.

Who will take part:

Three different types of Customers that our application is aimed at.

- Senior Golfer
- Junior Golfer
- Society Member

Location of brainstorm:

The brainstorm took place at Seafield Hotel, Co.Wexford

Date of brainstorm:

This brainstorm took place on Wednesday the 22/12/2021

Time of brainstorm:

This brainstorm took place at 4:30pm and lasted 31 minutes.

Brainstorm guidelines:

(A) Mobile phones must be switched off or left outside the room

(B) Prior to the brainstorm, participants must not discuss their ideas with each other.

(C) Participants must refrain from interrupting each other and participate in one conversation at a time.

(D) In this circumstance, no one is right or wrong.

(E) Participants must arrive early to ensure that the brainstorm begins at the appointed time.

2.6.3 Interviews

Interview One:

Participants:

Male member of a Golf Society

Interview location:

 This interview took place via zoom.

Date of interview:

The interview took place on Wednesday the 19/01/2022.

Time of Interview

The interview was conducted at 6:30 pm and lasted 13 minutes and 04
seconds.

Objective of this interview:

Understanding the view of a golf society in regards to how they feel about the
application and what they would like to see in it. How they feel, and getting them to
rank certain features in regards to the way Golf Societies will use GetAway&Golf.
Conducting the GetAway&Golf App interview can also lead to identifying,
addressing, and resolving issues with the app, which ultimately results in providing
needed requirements. As a stakeholder, the male member of the golf society will
provide us with an insight into how golf society's will be represented on the app. We
will be able to provide the business analyst with key requirements for developing the
student's union feature.

Questions:

Q1: Do you think an application like this would beneficial like the survey suggested? Why? (67.5% of golfers asked said it would)

Q2: As a society member, would a society page be useful?

Q3: Do you think this feature would get more societies to join GetAway&Golf? If so, why?

Q4: 74.4% of golfers stated they book between 0 – 6 rounds per month, with 52.5% booking through the club's website. Do you think these statistics represent your society? Why?

Q5: What feature would be of benefit to you and why?

Interview Two:

Participants:

Male member of Courtown Golf Club

Interview location:

 This interview took place via zoom.

Date of interview:

The interview took place on Tuesday the 25/01/2022.

Time of Interview

The interview was conducted at 2:30 pm and lasted 12 minutes and 13 seconds.

Objective of this interview:

Finding out how a male golfer feels about the application and what he would like to see in it. GetAway&Golf is interested in how golfers feel about certain features, and how they will use it. In addition to interviewing for the GetAway&Golf App, this can help identify, address, and resolve app issues, which in turn leads to the provision of needed requirements. Courtown golf club's male member will provide us with insight into the way golfers on average are represented on the app. As a result, we will be able to identify the key requirements for developing the application.

Interview Questions:

Q1: If your golf club was to join this application, would you be happy?

Q2: What security features would you like to see?

Q3: Would you pay a small fee for a subscription to this service?

Q4: How do you normally book your tee times? Would you prefer this type of booking system?

Q5: What features would be of benefit to you in this application?

Interview Three:

Participants:

Senior member of Courtown Golf Club

Interview location:

This interview took in Courtown Golf Club.

Date of interview:

The interview took place on Wednesday the 09/02/2022.

Time of Interview

The interview was conducted at 6:00pm and lasted 11 minutes and 07 seconds.

Objective of this interview:

Finding out how a senior golfer feels about the application and what they would like to see in it. GetAway&Golf is interested in how senior golfers feel about modern technology, and how we can help them to use this app. In addition to interviewing for the GetAway&Golf App, this can help identify, address, and resolve app issues, which in turn leads to the provision of needed requirements. The senior male member will provide us with insight into the way he wants senior golfers to be represented on the app. As a result, we will be able to identify the key requirements for developing the application.

Interview Questions:

Q1: Do you think an application like this would beneficial like the survey suggested? Why? (67.5% of golfers asked said it would)

Q2: Would you be interested in a senior only section within the application?

Q3: What would be the deal breaker for you to use this application?

Q4: A senior only society page was put forward as an idea in the brainstorming session, would this be something you would find useful?

Interview Four:

Participants:

Taxi driver in Dublin

Interview location:

This interview took place via zoom.

Date of interview:

The interview took place on Saturday the 26/02/2022.

Time of Interview

The interview was conducted at 8:00 pm and lasted 7 minutes and 48 seconds.

Objective of this interview:

Finding out how a taxi driver feels about the application and what they would like to see in it. GetAway&Golf is interested in how it's feel about the app, and how they will use it. In addition to interviewing for the GetAway&Golf App, this can help us identify the needs of the transport companies. The taxi driver will give us the insight in what they do and don't like. As a result, we will be able to identify the key requirements for developing the application.

Interview Questions:

Q1: How often would you be called for a journey to a golf club?

Q2: Would you be happy to attach your personal details to our transport page?

Q3: Do you think this would be useful for yourself and your business?

Q4: Is there anything we should add to our transport page to encourage users to use the transport services we provide through the app?

Interview Five:

Participants:

Female member of Hermitage Golf Club

Interview location:

This interview took place via facetime.

Date of interview:

The interview took place on Friday the 11/03/2022.

Time of Interview

The interview was conducted at 4:00 pm and lasted 8 minutes and 02 seconds.

Objective of this interview:

Finding out how a female golfer feels about the application and what she would like to see in it. GetAway&Golf is interested in how women golfers feel about certain features, and how we can help them achieve what they want to see in the app. Hermitage's female golfer will provide us with insight into the way she wants to see female golfers represented on the app. As a result, we will be able to identify the key requirements for developing the application.

Interview Questions:

Q1: How often would you be called for a journey to a golf club?

Q2: Would you be happy to attach your personal details to our transport page?

Q3: Do you think this would be useful for yourself and your business?

Q4: Is there anything we should add to our transport page to encourage users to use the transport services we provide through the app?

2.6.4   Prototyping

Objective of the prototype:

Building a non-functional prototype with wireframes was aimed at showing stakeholders what the finished product might look like. With the initial draft of wireframes, the requirement workshop may show that certain requirements are not appropriate for the GetAway&Golf app. With an online tool, wireframes will be created without colour and with the least amount of detail. In a second set of wireframes, we will also use an online tool that will provide extra detail and colour. This will enable any potential changes a stakeholder may wish to make. For example, adding or deleting content could be included.

Resources Required:

1) MacBook with Photoshop
2) Adobe Photoshop will be used to develop the prototypes
3) The GetAway&Golf prototype will be developed based on the results of the survey, brainstorming session, and interviews with potential users.

Prototype Development Checklist:

- Produce an in-depth prototype of the requirements workshop.
- Enhance the prototype by adding features based on preferences expressed by stakeholders during a requirements workshop.
- Incorporate the results of the interview into the prototype.
- Analyse the views of the stakeholders during the brainstorming session.

Participants:

1. Male Golfer
2. Senior Golfer
3. Business analyst

Prototype Due Date:

22nd March 2022.

Prototype Date of Competition:

17th March 2022.

2.6.5 Requirements Workshop

Objective of the Requirements Workshop:

The purpose of creating a non-functional prototype with wireframes was to demonstrate to stakeholders what the finished product might look like. In the

requirement workshop, certain requirements may be found not appropriate for the GetAway&Golf app after reviewing the initial wireframes. Wireframes can be created using an online tool without colour and with the least amount of detail. We plan to use an online tool to provide additional details and colour in a second set of wireframes. Potential stakeholders will then have the ability to change anything they wish. It could be possible, for example, to add or delete content.

Resources Required:

1) Mobile phones, tablets or laptops.
2) Zoom.
3) Good internet connection.
4) Microsoft PowerPoint to present the prototypes.
5) Pen and paper to note any comments made by stakeholders during the session.

Workshop Location:

This workshop took place via Zoom.

Date of Workshop:

01th April 2022.

Time of Workshop:

6:00pm – 7:00pm.

Workshop Preparation Checklist:

- Identify the suitable stakeholders
- Set a time, date, and location
- Prepare a list of objectives
- Invite all the participants via email
- Make sure all the stakeholders can attend

Participants:

1. Business Analyst
2. Junior Golfer
3. Senior Golfer
4. Society Member

Agenda:

1. Define the reason for the workshop.
2. Outline the workshop rules.
3. Evaluate the first prototype.
4. Identify the pros and cons of the prototype.
5. Ask each participant if they are happy.
6. Note comments made by each participant

Workshop Rules:

1. Participants must arrive 5 minutes early.
2. Participants can comment at any time during the workshop, but the comment must be relevant.
3. Mobile phones are not permitted.

Workshop Final Deliverables:

- Microsoft word document which has a list of the pros and cons of the first set of wireframes.
- Microsoft word document which will have the new wireframes with all the changes made.

2.6.6 Interface Analysis

Objectives of Interface Analysis:

The UML use case diagram was then developed once the prototype and requirements workshop had been completed. In it, interface types related to the application are shown. Each of the actors, ie. Stakeholders will have access to

different parts of the application. The information displayed on the transport page, for example, will be under the control of Transport Services. Stakeholders and the GetAway&Golf app are represented in the diagram below. By using this use case diagram, we will be able to avoid confusion during development. Transport services, for instance, should not be able to post on the society page.

Resources Required:

1) MacBook with access to Google.
2) Draw.io will be used to construct the UML use case diagram.

UML Use Case Diagram Development Checklist:

- Develop a UML use case diagram for the new GetAway&Golf application.
- Identify potential interface types based on previous elicitation results.
- Review potential stakeholder interactions with the prototype.

UML Use Case Diagram Name:

GetAway&Golf Application.

UML Use Case Diagram Actors:

1) Customer.
2) Developer.
3) Golf Clubs.
4) Transport Services.
5) Golf Societies.

UML Use Case Diagram Due Date:

10th April 2022.

UML Use Case Diagram Date of Competition:
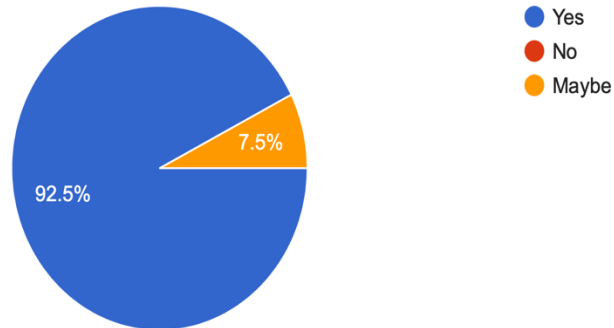
11th April 2022.

3 Requirement's elicitation results and conclusions:

3.1 Survey

Question 1

As a golfer, would you be interested in using an application that allows you manage your bookings and avail of deals in one place?
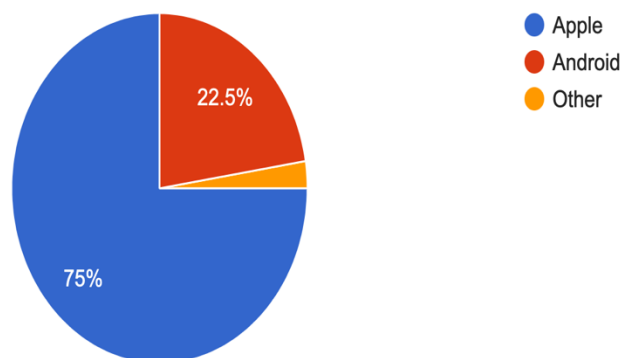
40 responses

- ● Yes
- ● No
- ● Maybe

7.5%

92.5%

Question 2

What platform do you currently use?

40 responses

- ● Apple
- ● Android
- ● Other

22.5%

75%

Question 3

How do you currently book golf?
40 responses

- Club Website
- Phone
- Email
- Other

27.5%
17.5%
52.5%
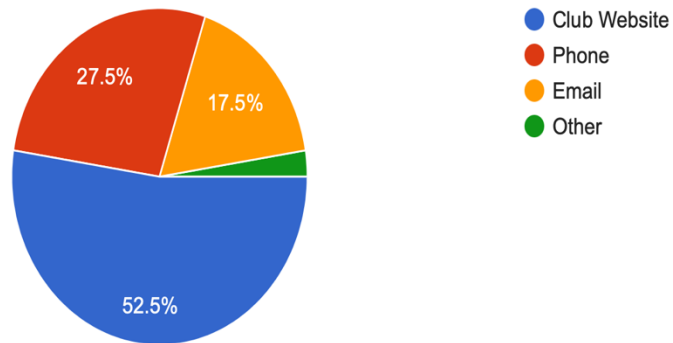
Question 4

How many golf bookings do you make per month?
39 responses
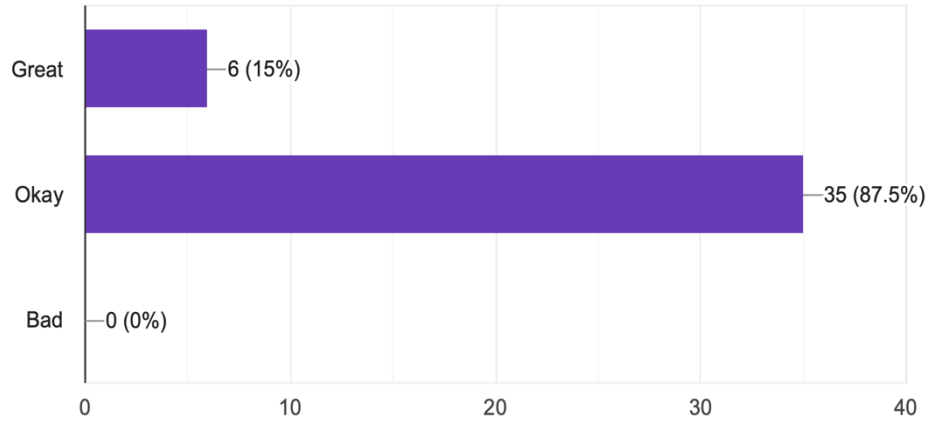

- 0 - 2
- 3 - 6
- 7 - 10
- 11+

25.6%
38.5%
35.9%
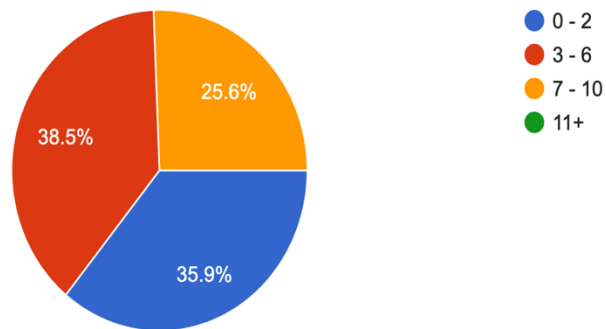
Question 5

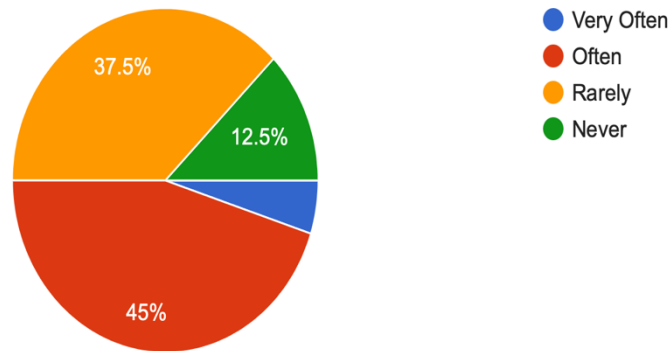## How would you rate your current booking method?
40 responses

Question 6

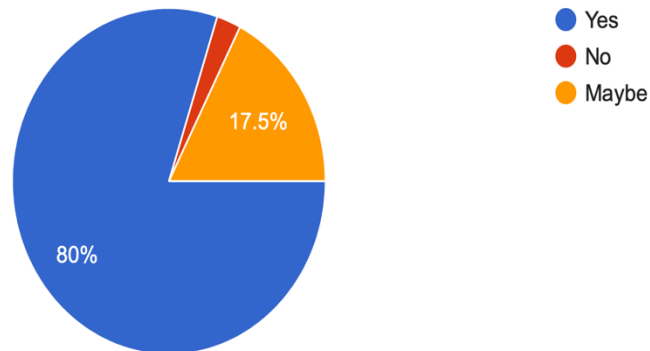## How often would you check for green fee offers?
40 responses

Question 7

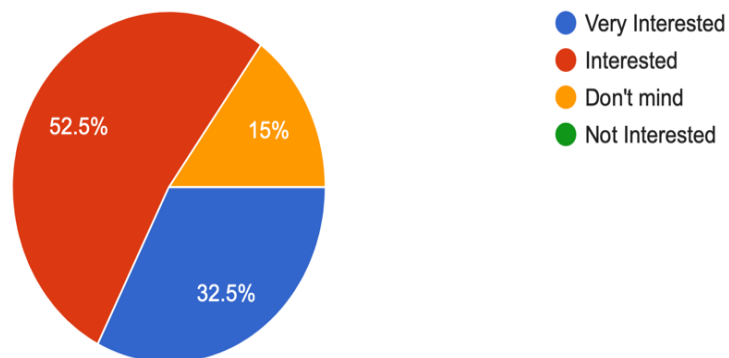Would you book more golf trips if it was easier to view deals?
40 responses

Question 8

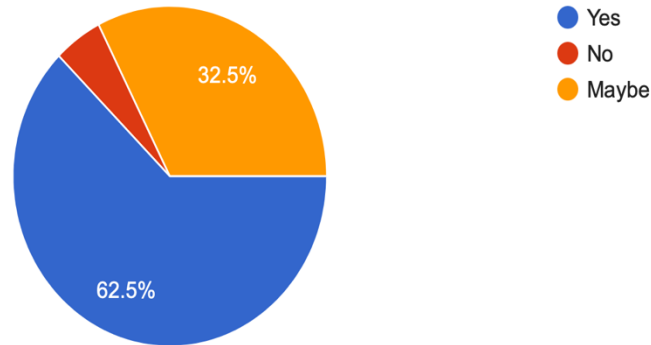How interested would you be in being able to book transport within the GetAway&Golf app?
40 responses

Question 9

Would you subscribe to our newsletter that will notify you of latest offers?
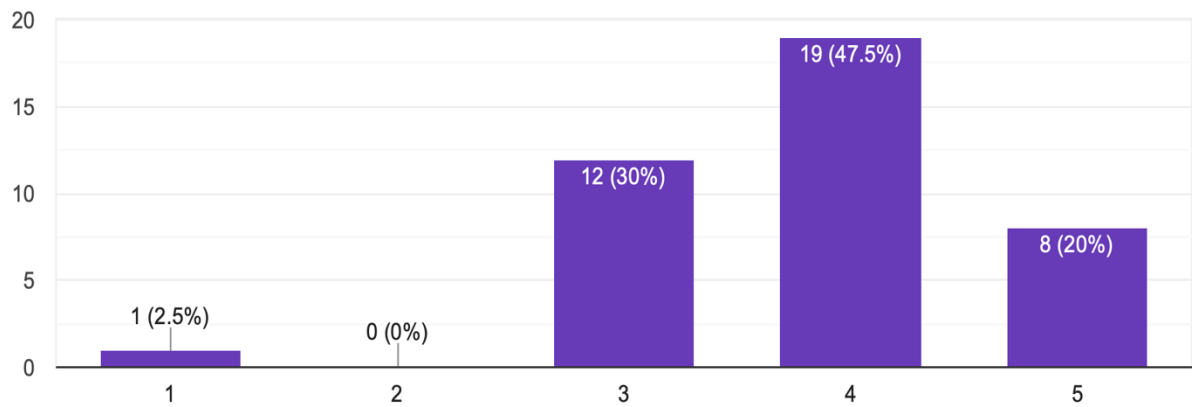40 responses

Question 10

On a scale of 1-5, 1 being the lowest. How beneficial would this application be to you?
40 responses

3.1.1 Conclusion

This survey was sent out to multiple types of customers. It was conducted over a 5 day period and was out through multiple social media platforms. The conclusion I have gathered are the following:

Question 1:

92.5% of people said they would be interested and 7.5% said they may be interested. No one said they would not be interested which means the application can get it's go ahead.

Question 2:

75% of people use Apple Phones, 22.5% use Androids, which left 2.5% of users using neither. These results should allow us put our main focus on our Apple & Android version of the application. This means that most of our targeted audience have one or the other.

Question 3:

The result of this question has been a positive as a very small % gave an answer of other which means they either use a booking application or book in person. This means that most people use the traditional booking methods such as club website, phone or email. In conclusion, there is a space in the market.

Question 4:

This suggests that less then 75% of users will only be booking between 0 -10 bookings per month which will allow us get a rough idea of how many bookings we should expect per month per user.

Question 5:

87.5% of the results were that their current booking method was 'okay'. This suggest that there is room for improvement, which is good news for us.

Question 6:

These results suggest that 87.5% of users check for deals regularly. This means that having our deals section of the application is essential.

Question 7:

80% of people gave positive feedback in relation to if they would book more golf trips if it was easier to view deals. This means we need to take this application as easily navigable as possible. This a win: win for both the golf clubs and ourselves as we can get more users using our app and golf clubs will have more bookings as a result.

Question 8:

85% of people have stated they would be interested or very interested in being able to book transport through our application. This means that this feature should be a high priority on our list.

Question 9:

62.5% of people have stated they would subscribe to our newsletter, so I think it is important that this feature is added.

Question 10:

97.5% of people gave a positive answer in regards to if they thought this application would be of benefit to them. This is good news as we have learned that this app will meet user's needs.

In Conclusion, the analysis of these results has had a positive impact on the backing of this application. I have been able to get some answers to some of the important questions which has benefited me, and has led to a successful completion of this elicitation technique.

3.2 Brainstorming

Brainstorming was successful. As a result, stakeholders voiced their opinions on the application and what they believed should be included, and requirements were gathered from them. Two phases of brainstorming were conducted. In the first phase, I and the stakeholder discussed our individual thoughts, and the second phase, we discussed our results as a group in order to identify correlations. Stakeholders can speak freely through this, and I think that is a good way to do it. We benefit from the correlation portion of this brainstorm as everyone has a chance to discuss the pages, features, etc. that are all in agreement with one another, and then have a chance to express their own opinions.

Junior Golfer / Senior Golfer / Society Member

- Google Login

- Twitter login

- Instagram login

- Deals page

- Deals abroad

- Transport information page

- Junior discounts

- Filter by location

- Club search

- Juniors page

- Food and drink page attached to club page

- GUI login

- Help page – phone number, email, query, etc

- Seniors page – senior events, forms, societies

- Reminders for booking / booking confirmation

- Club page with information about the club – Opening times – Gallery

- Sign up / login page

- Modern home page

- Security functions

- Booking for buggies feature

- Society Page – forms, feeds, etc
- Reliability with the accuracy of deals
- No booking fee
- FAQ for each club
- Profile picture for user
- The ability to add a friend

Conclusion

The results of the brainstorm where as follows:

The application should have 11 pages:
- Home page
- Start Page
- Login Page
- Sign Up Page
- Deals
- Clubs
- Transport
- My Account
- About Us
- Contact Us
- Society Page

We have added what each page should have, as an example: Deals Page – Filtering Option – Club Image – Price – Available Times – Booking option. It has also been suggested that we should have features such as a newsletter, and sms reminders. This has been a very successful technique as it has led to the development of our Wireframes and gives us certainty that our stakeholders will back it as they were involved in choosing what pages should be added and what they should have.

3.3 Interviews

Interview one

Interview questions for Society Member:

GetAway&Golf is an App that will be developed for the golfers of Ireland. Through a series of confidential questions, this interview aims to get a golf society member's perspective on the App and how they would react to it. The GetAway&Golf app will allow users to book tee times, transportation, messaging, and join golf societies. Interviews will help us collect app requirements.

Q1: Do you think an application like this would beneficial like the survey suggested? Why? (67.5% of golfers asked said it would)

- Yes, I believe this application would be beneficial for many reasons.
- Most golf applications I use only have one of these features, for example: booking tee times, messaging golfers.
- Since this application incorporates multiple features into one, I think it would be extremely useful.
- Since this application is unique, I believe it will stand out in the market and will attract many people.

Q2: As a society member, would a society page be useful?

- Yes, I believe a society page would be extremely useful.
- I am a member of a society in work, and I feel having a page like this will encourage more people to join.
- Being able to view the tee times of people in your society, seeing future outing dates, and communicating through the notice board would be useful.

Q3: Do you think this feature would get more societies to join GetAway&Golf? If so, why?

- Yes, I believe that this feature would encourage more societies to join the app.
- As I stated before, seeing future outings, green fees, etc will provide an easy-to-use space for societies to organise their bookings without all the hassle of researching, and then communicating through multiple social media platforms. *Do you have any feature suggestions?*
- Yes. A tool that would allow the society organiser to plan all trips in one place with the list of golf clubs, price breakdown, etc.

Q4: 74.4% of golfers stated they book between 0 – 6 rounds per month, with 52.5% booking through the club's website. Do you think these statistics represent your society? Why?

- I would typically play 4 rounds per month; and it would be through a website.
- I would provide a phone number and it would send me confirmation number.
- Confirmation and reminders are something I would recommend having in this app as it is extremely useful.

Q5: What feature would be of benefit to you and why?

- All of the above features are extremely beneficial, but the two that stand out to me are the booking functions, and the opportunity to join societies. I am outgoing, and being in society encourages me to play more golf and meet people.

Interview one conclusion:

The interview with a representative of a golf society was very informative and resulted in various different requirements. The purpose of the interview was to gain insight into how a member of a golf society view the app and what they understand about it. The purpose of the interview is to identify, address, and resolve any issues with the app, resulting in any requirements for the Getaway&Golf App.

Q1: The answer for question one validated the point that an application like this would be beneficial. It was stated that there's no application they know of that has all of these features in one.

Q2: The answers we received to question two solidified our hypothesis that a society page would be beneficial and we learned about potential features like adding in a calendar type system to the society page so that the user can see past, present, and future events.

Q3: We learned that having a society page like this would encourage more societies to join and I think that's a great win for us as that is our goal.

Q4: Question four helped us understand how many games of golf a society member plays, which will give us a rough idea of how many bookings a society should be making per month.

Q5: We concluded that the features would be beneficial to the society member. We learned that we should make the society pages appealing to everyone by encouraging them to join societies to meet new people and enjoy golf.

Interview two

Interview questions for a male member of Courtown Golf Club:

Irish golfers will soon have the opportunity to download the GetAway&Golf app. We asked a member of Courtown golf club a series of confidential questions over the course of the interview. This was so we could find out how they would respond to the App. With GetAway&Golf, users will be able to book tee times, book transportation, join golf societies, and send messages. Information on the application will be collected through interviews.

Q1: If your golf club was to join this application, would you be happy?

- I don't see why I wouldn't be. Many golf clubs around the country have been struggling with membership and green fees ever since covid hit, and I think something like this would be majorly beneficial to everyone. *So you wouldn't mind your golf club hosting more open days?*

- No, not at all.. If it's a case of my course staying open and closing due to money, I would choose to keep it open.

Q2: What security features would you like to see?

- I think having a two factor authentication would be useful as it seems to work on applications such as online banking. *How would you like to see that implemented?*

- Whilst using my online banking, I had to use my passport to reassure them it was me that was attempting to sign up under my credentials. *Do you think this type of security is essential in our application?*

- Yes, I would feel much safer using an application like this if I felt reassurance that my data was being kept safe.

Q3: Would you pay a small fee for a subscription to this service?

- What is considered a small fee? *Anything from 2-3 euro per month subscription or a 50 cent – 1 euro booking fee!*
- No, I would not mind that, but I do think the lather is better due to the fact I may not be booking every month.

Q4: How do you normally book your tee times? Would you prefer this type of booking system?

- I normally use my club website for my home bookings and then if I am going to another club I will give them a call.

- Yes, I think it would save me a lot of time and hassle but I hope it is not too complicated to use.

Interview two conclusion:

Interviewing a member of Courtown golf club proved to be extremely informative, resulting in many different requirements. In this interview we wanted to determine how the app is perceived and what it means to an average golf club member. Getaway&Golf App interviews will be conducted in order to identify, address, and resolve various issues with the app.

Q1: We learned that the members wouldn't mind their golf clubs using such an application as it will provide more income to the business, therefore making the club better for everyone and will allow more visitors to play and enjoy it, which could lead to more people joining.

Q2: We learned that we should adapt a two factor authentication for users signing in and/or booking their service. This was eye opening due to the fact that the interviewee mentioned his bank security and how he feels safe using the app knowing his personal details are secure. In conclusion, we should aim to make user privacy and security one of our main goals.

Q3: We asked about a potential fee foe using the application and with the answer we concluded that a booking fee for the user every time they use it is probably better than a subscription service.

Q4: This answer solidified the answers we got during the surveys and help us understand why the stakeholder wants this booking system.

Interview three

Interview questions for a senior member of Courtown Golf Club:

We will develop an App for golfers in Ireland called GetAway&Golf. An interview with a senior member of Courtown golf club aims to gain their perspective on how they would react to the App. This is done in the form of a series of confidential questions. Users of the GetAway&Golf app can book tee times, book transportation, send messages, and join golf societies. In order to complete the application, we need to conduct interviews.

Interview Questions:

Q1: Do you think an application like this would beneficial like the survey suggested? Why? (67.5% of golfers asked said it would)

- I think with the way technology is going, it is inevitable that an application like this will take over.

- I do think it would be beneficial as I like playing other golf clubs but would do it more if I saw good deals.

Q2: Would you be interested in a senior only section within the application?

- Not really, I don't think I would benefit from that as I just like playing with my regular groups. *So you wouldn't use this feature if it was available?*

- Probably not to be honest, I wouldn't get any benefit from it as I would only be using the application to book golf.

Q3: What would be the deal breaker for you to use this application?

- Since I am not the best with technology, I would be delighted if it was easy to use.

- I also don't like using my credit card online, so if I could use a oneforall card or something similar to top up my account it would be great.

- I would like to have the ability to see the weather around the time of my booking so I don't have to check elsewhere.

Q4: A senior only society page was put forward as an idea in the brainstorming session, would this be something you would find useful?

- Nah, not really. As I said before about the senior only session, I wouldn't use it as I am happy in my weekend and we have played together for the last 10 years. *Do you think other seniors would find this useful?*

- I can't speak for others, but I do know seniors like to play in societies for social reasons so I wouldn't rule it out. But I don't see why you would have to have it as senior only.

Interview three conclusion:

A senior golfer from Courtown golf club provided a wealth of information during the interview, which led to several different requirements. We conducted the interview in order to learn how senior golfers perceive the app, to gain insight into their understanding, and to gain insight into the relevant questions. We will conduct an interview to identify, address, and resolve any issues with the app, leading to any requirements for the Getaway&Golf App.

Q1: We learned that the senior representative felt that the application would be a good idea. This is great news as it generates more positivity revolved around developing the application.

Q2: The senior cleared up our question about the senior only page and they gave us a very insightful answer about how seniors tend to like playing in their regular fourball each week and would not be using the technology much anyways.

Q3: The senior made a point that they are not the best with technology so that an easy to use application would be best for them. Another point they made was to do with topping up their GetAway&Golf account via oneforall gift cards. This won't be possible in the near future as we will need to get all sorts of permissions.

Q4: The interviewee made it clear that they did not have the need for a senior only society page which will result in us not allowing society page owners be able to put a minimum age for joining.

Interview four

Interview questions for a Taxi driver in Dublin:

Golfers in Ireland as well as transport companies will benefit from GetAway&Golf. An interview like this is designed to examine the perspectives of taxi drivers on the App and understand their point of view. The GetAway&Golf app will offer the chance to local transport companies or individuals to put their business on the application. Profitability will increase for transport companies as a result. In order to fill out the application, we will conduct interviews.

Interview Questions:

Q1: How often would you be called for a journey to a golf club?

- I would say 2 – 4 journeys per week. *Would the personnel be foreign or local?*
- Majority would be American or Canadians from their hotel with the odd occasion a local needing a lift.

Q2: Would you be happy to attach your personal details to our transport page?

- What sort of personal details, my name and phone number? *The information about yourself and your business such as, name, number , type of transport, how many people it fits, etc.*

- Yes, that would be fine with me. I am open to any ideas that will help my business.

Q3: Do you think this would be useful for yourself and your business?

- I don't see why not. I can see it helping me stand out from other transport users if I am on these apps, but what's the catch? Is there any hidden costs? *No hidden costs for you, the user will pay us a small booking fee when they use us to book your service!*

- Okay, then I don't see why it wouldn't be beneficial to me. A link between it and my taxi would be good.

Q4: Is there anything we should add to our transport page to encourage users to use the transport services we provide through the app?

- A modern look with a simple booking system would suffice. I think making it as easy as possible for the users and the transport companies to book and update/upload their information is most important. *Do you think any incentives could be used, and if so, would you be part of them?*

- I think it would, especially with students as many of them don't drive. I mean I wouldn't mind giving someone a discounted fee if that's how the app works, once I am getting customers, that's the main thing .

Interview four conclusion

During the interview, I learned useful information from how the taxi driver perceived the application. They were interviewed so we could learn more about their business and how we could help them be successful on the application to benefit both of us.

Q1: We got an insight to what sort of customers we should expect on our application. Foreigners, teens, and young adults should be the people we are marketing for.

Q2: We got positive feedback about them sharing their personal data in order to using the app.

Q3: The taxi driver was very open to the idea of using GetAway&Golf. This was great as we want to include them in our application as it will benefit everyone.

Q4: The interviewee gave their view on what the design should be. They helped us understand the market better and how we should offer deals to try and get users to use their service. They recommended that we should keep it plain and simple with booking system.

Interview five

Interview questions for a female member of Hermitage Golf Club:

The GetAway&Golf app is designed to assist women golfers in Ireland.

This interview investigates the impact of the App on a female member of the Heritage Golf Club through a series of confidential questions.

Interview Questions:

Q1: Would a female only page be something you would be interested in?

- I think it would be a nice touch but it's not a thing would be a deal breaker to me. *What would be a deal breaker?*

- Personally, I would like to see more female open days. I understand it's not up to you guys at GetAway&Golf but if you could push clubs to do more of these it would be appealing.

Q2: Is there any particular features you would like to see on this application for women?

- As I said before, more open days posted on the app. But as far as features go, I would just want it to be modern, easy to use, reliable, and visually pleasing. *Would your golf club benefit from this?*

- Yes, most definitely!

Q3: A messaging feature was suggested, do you think this is something you would be interested in?

- Absolutely!, being able to meet people and converse with your friends to decide on trips, talk about trips, etc would be very handy as there's plenty of women I have played golf with in the past and wouldn't have any contact details for them. ***Do you think including users social media tags in their profile would be beneficial then?***

- Yes, I think so.

Q4: Would your golf club benefit from this?
- Yes, I think so. We only had an updated website recently enough but as far as open competitions go, we need more women to attend them and I think promoting the club through app would help.

Interview five conclusion:

During the interview, I learned useful information from the female golfer from Hermitage, which helped me understand how women may want to be perceived on applications. A female golfer was interviewed so we could learn how she perceives the app, gain insight into how she understands it, and seek to understand if the questions were relevant. Getaway&Golf App will be reviewed during an interview to identify, address, and resolve any problems with the app.

Q1: We learned the user wants more open competitions added, and that they are not pushed about a women's only page.

Q2: The interviewee told us they just wanted modern application that is visually pleasing and reliable. The reliability part can refer to refresh times, up to date deals, etc.

Q3: We got reassurance that the messaging feature will be a good addition to the application. The interviewee was very positive that it would benefit them. We also learned that we should allow users add social media handles to their profile if they wish, as this will encourage people to get to know one another.

Q4: We learned that hermitage golf club need more women attending their open days, and this particular member thinks GetAway&Golf can help them in achieving this goal.

3.4 MoSCoW Analysis

Must
FR1:Home page link
FR2:Deals page link
FR3:Transport page link
FR4: Club page link
FR5: My account page link
FR6: About us page link
FR7: Contact page link
FR15:Transport phone numbers
FR10:Edit personal information
FR17:Recent bookings
FR18:Sign up page link
FR22:Booking feature
FR24:Transaction finalised feature
FR27: Users can add a friend
FR29: User identification feature
FR31: Signing up to societies on the GetAway&Golf app
FR32: Society page link
FR33: Contact form feature
FR34:Google maps for golf club directions
FR35: Location filter feature
FR42: Club website link
NF3: Page loading times
NF5: Logout
NF4: Login
NF8: Easy to navigate
NF11: User support
1.Two Factor Authentication

Should

FR8:Notification system

FR9: Calendar feature

FR13:Club opening times

FR19:Login via google

FR20:Login via twitter

FR19:Notice board for societies

FR28:Users can upload a profile picture

FR37:Club social media account links

NF2:GetAway&Golf available 24/7

NF6: Society board posts

NF7: Tee time confirmation

NF9: Login Credentials

NF10: Refresh pages

2. Future outings feature

6. Reliability with the accuracy of deals

7. Security functions

Could

FR12: FAQ for each golf club

FR14:Club phone numbers

FR16:Newsletter

FR21:Meet the team

FR23: View booking receipts

FR25: Society forms

FR3-: Weather information

FR36: Gallery for course images

3.Deals Abroad

4. Help page

5.Society planner tool

Wont

1:A women's only page

2:A seniors only page

3:Link between GetAway&Golf and My taxi

4: Student discounts

5:Oneforall card top-up

6:Booking fee

7:Subscription costs

8:Food and drink page

9: The ability to book a buggy through the app

In order to prioritize the requirements gathered during the elicitation process, we used the MoSCoW analysis.

- A brainstorm conducted with 3 stakeholders
- A survey that was conducted among a mix of Irish golfers
- Interview one which was conducted with society member.
- Interview two which was conducted with a male member of Courtown Golf Club.
- Interview three which was conducted with a senior member of Courtown Golf Club.
- Interview four which took place with a local taxi driver.
- Interview five took place with a female member of Hermitage golf club.

Conducting this MoSCoW analysis was important in order to understand how the requirements were ranked and how they were ranked by all stakeholders. Prioritising and labelling the requirements in a table will allow them to be clearly seen in the wireframes so that everyone can understand exactly how every feature fits together.

Based on the stakeholder's stated importance, the requirements in this table have been prioritized. Please note that the requirement number does not indicate their importance. Therefore, all requirements in the 'Must' section are equally relevant.

Wireframes set 1

Tesco Mobile

GetAway&Golf

Home
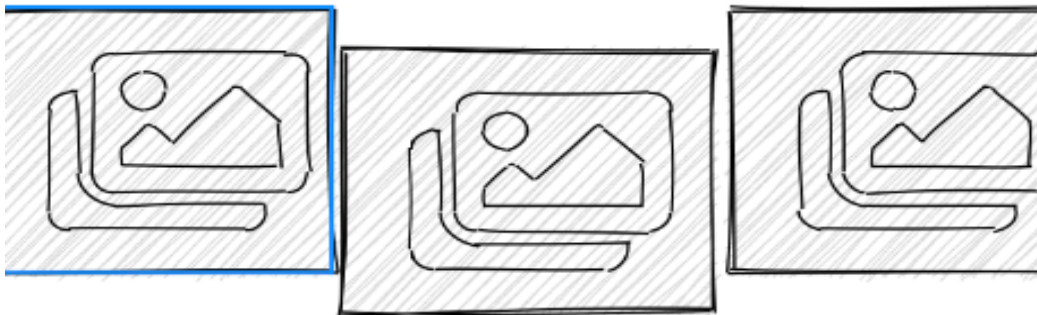
Logo

Dropdown

Home Deals Clubs Transport My Account About Contact

Tesco Mobile

Sign Up

Name

Input Field

Email

Input Field

Password

Input Field

Password

Input Field

SIGN UP

Logo

Dropdown

Home Deals Clubs Transport My Account About Contact
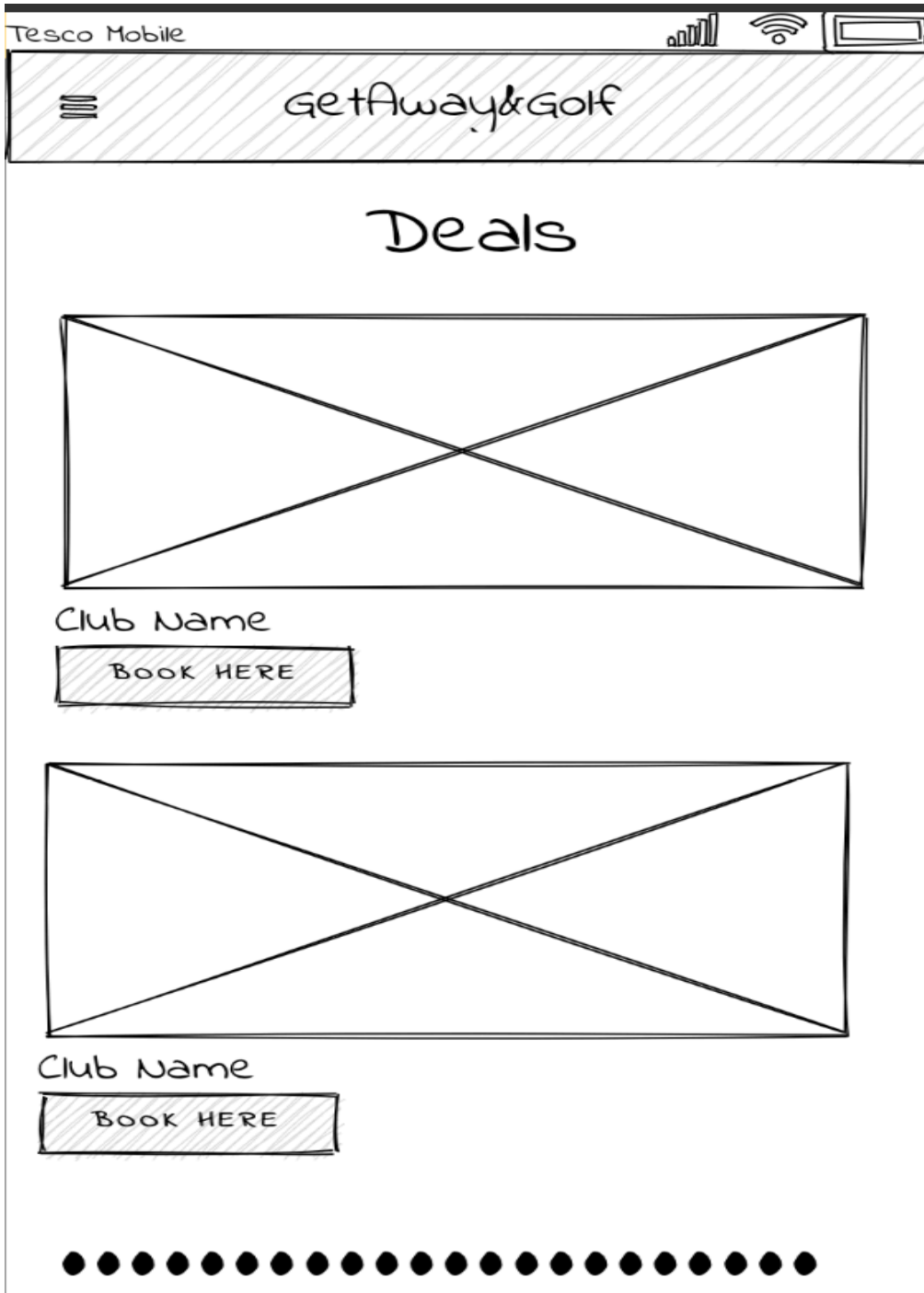
Tesco Mobile

Sign In

Email

Input Field

Password

Input Field

SIGN IN

Forget your password? Click here to reset it!

Logo

Dropdown

Home Deals Clubs Transport My Account About Contact

Tesco Mobile

GetAway&Golf

Deals

Club Name

BOOK HERE

Club Name

BOOK HERE

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Newsletter

Input Field

BUTTON

Logo

Dropdown

Home   Deals   Clubs   Transport   My Account   About   Contact

Tesco Mobile

GetAway&Golf

Club Search

Input Field

Text

Text

Text

BOOK HERE

Logo

Dropdown

Home Deals Clubs Transport My Account About Contact

Tesco Mobile

GetAway&Golf

Transport

Location

Price

BOOK HERE

Price

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Home Deals Clubs Transport My Account About Contact
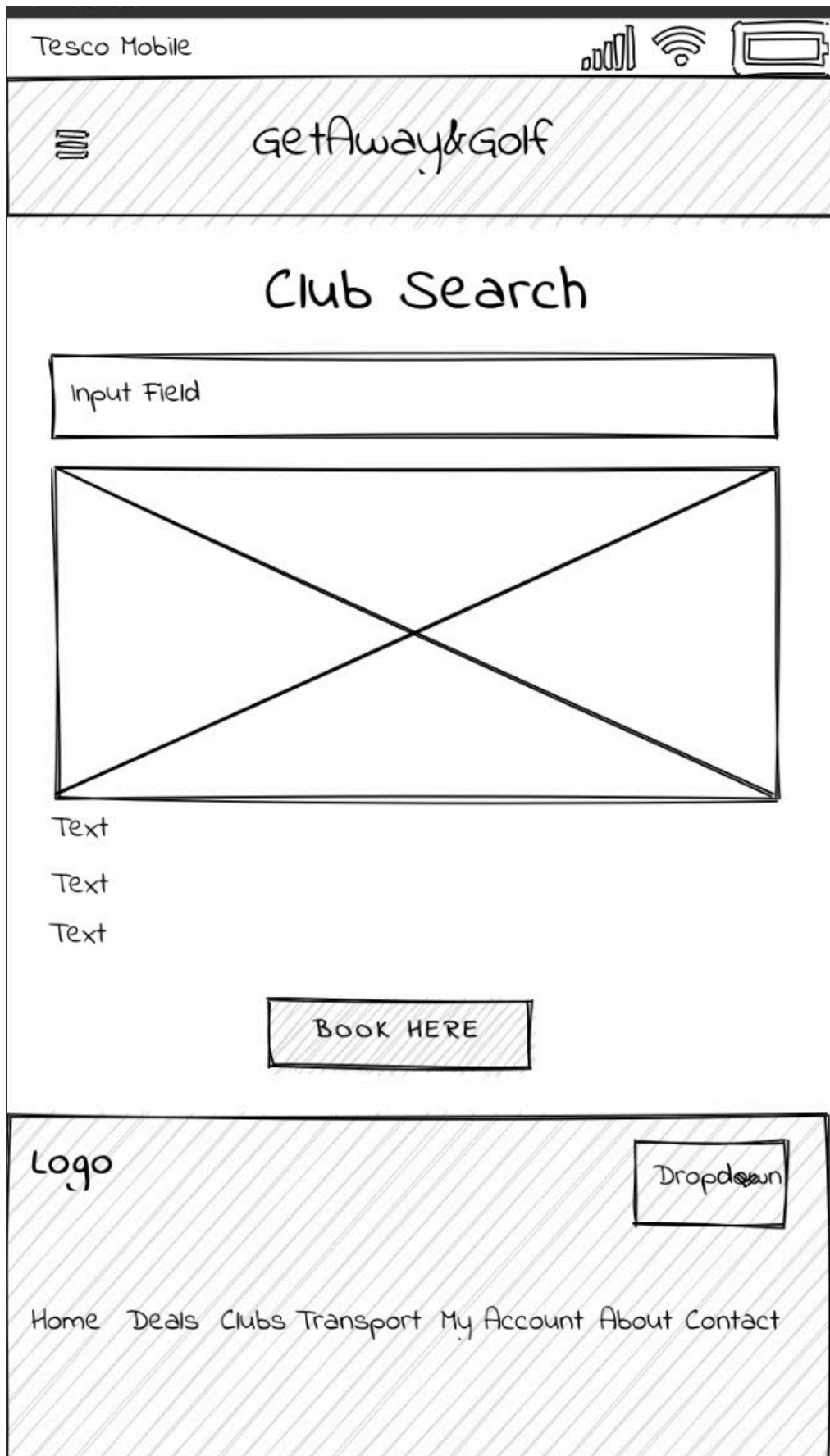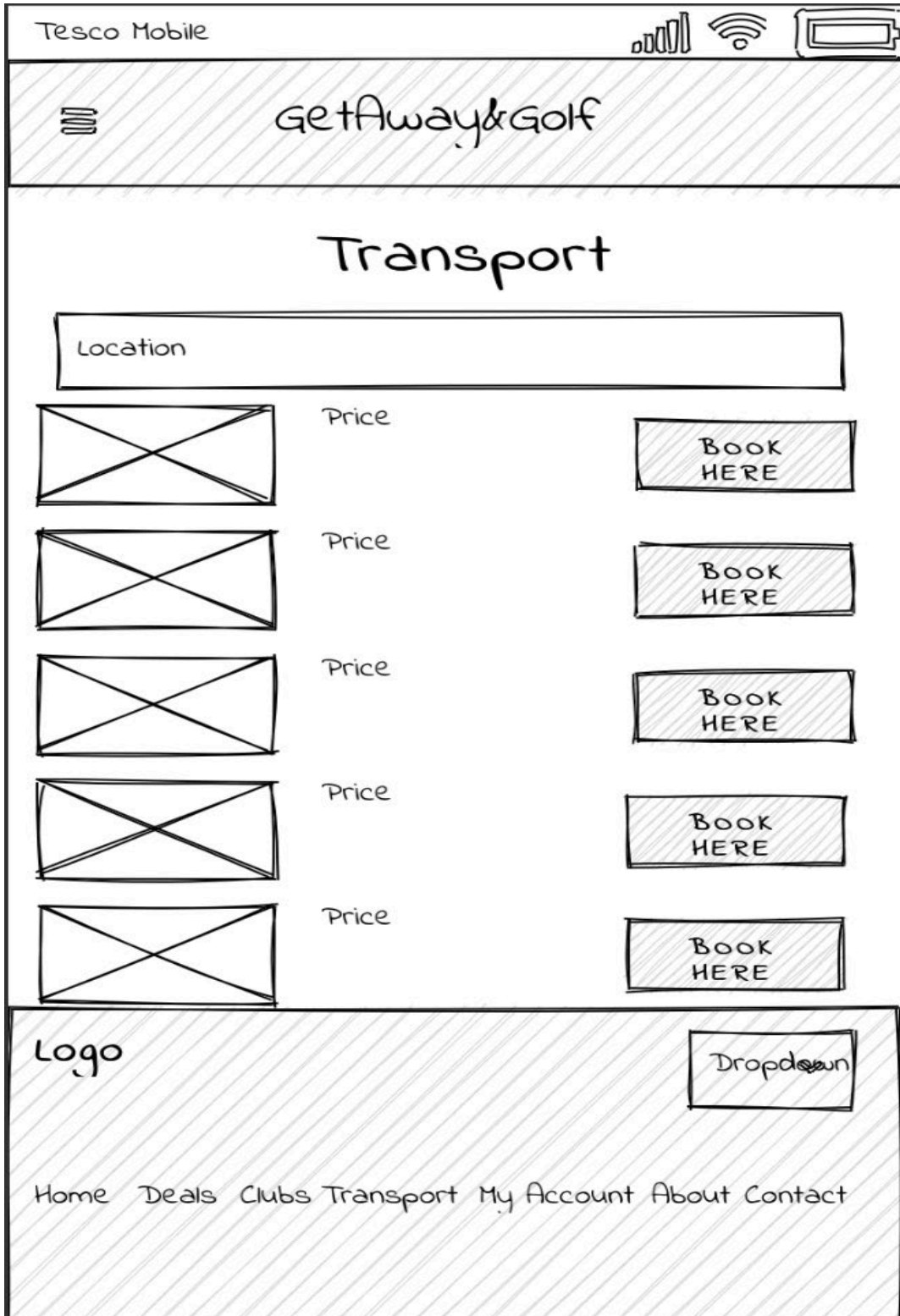
Tesco Mobile

My Account

Name

Email

Mobile

GUI Number

Account Balance

Recent Bookings

Club Name
Price : Date

Club Name
Price : Date
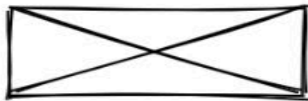
Transport Type
Price : Date
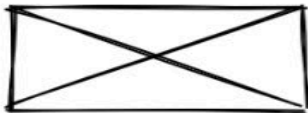
Transport Type
Price : Date

Logo   Dropdown

Home   Deals   Clubs   Transport   My Account   About   Contact

Tesco Mobile

GetAway&Golf

About Us

Information on what we do and our goals

Name

Position title

Logo

Dropdown

Home   Deals   Clubs   Transport   My Account   About   Contact

Tesco Mobile

GetAway&Golf

Contact

Name

Input Field

Email

Input Field

Subject

Input Field

Message

Input Field

SEND MESSAGE

Logo

Dropdown

Home   Deals   Clubs   Transport   My Account   About   Contact
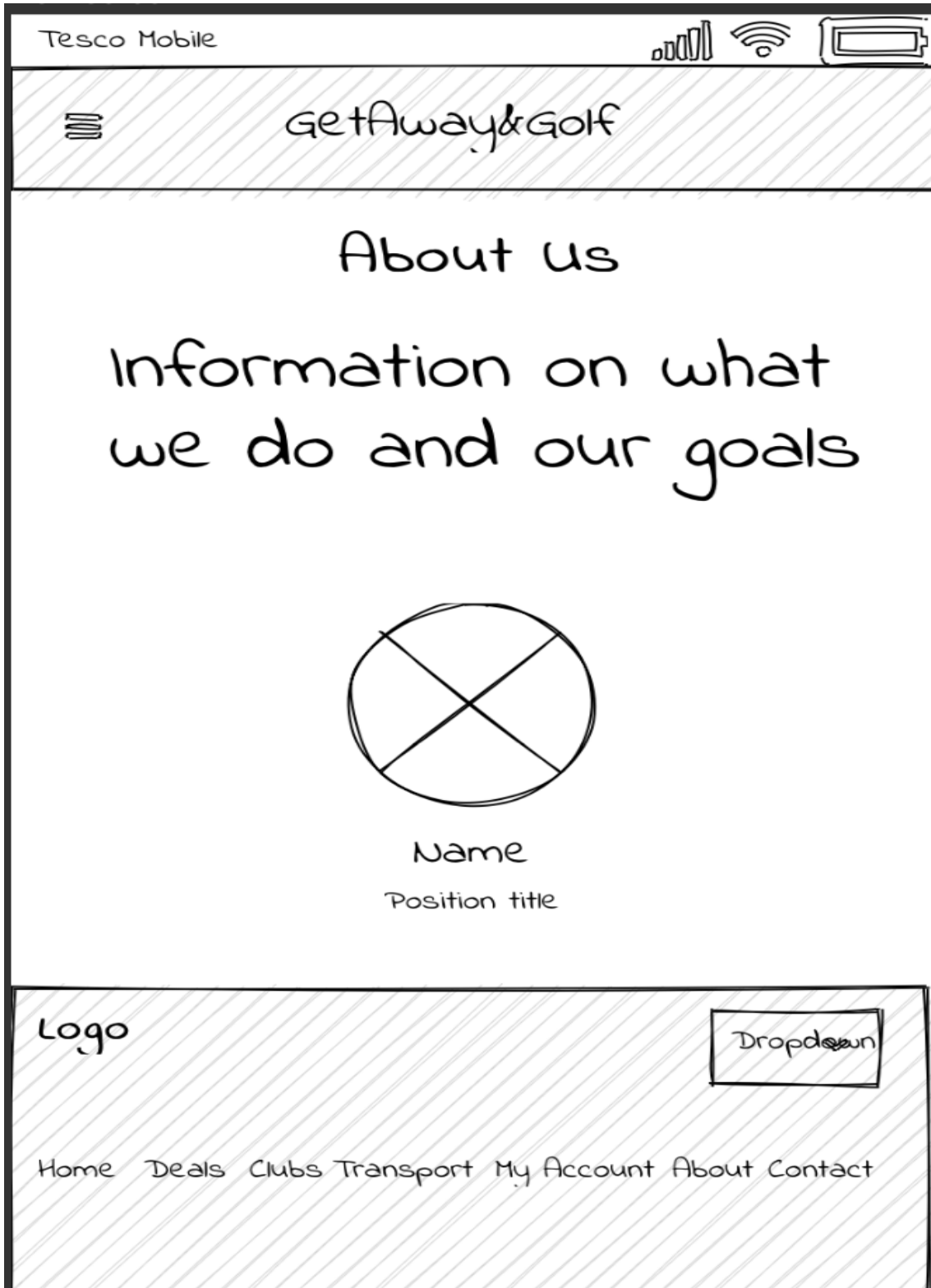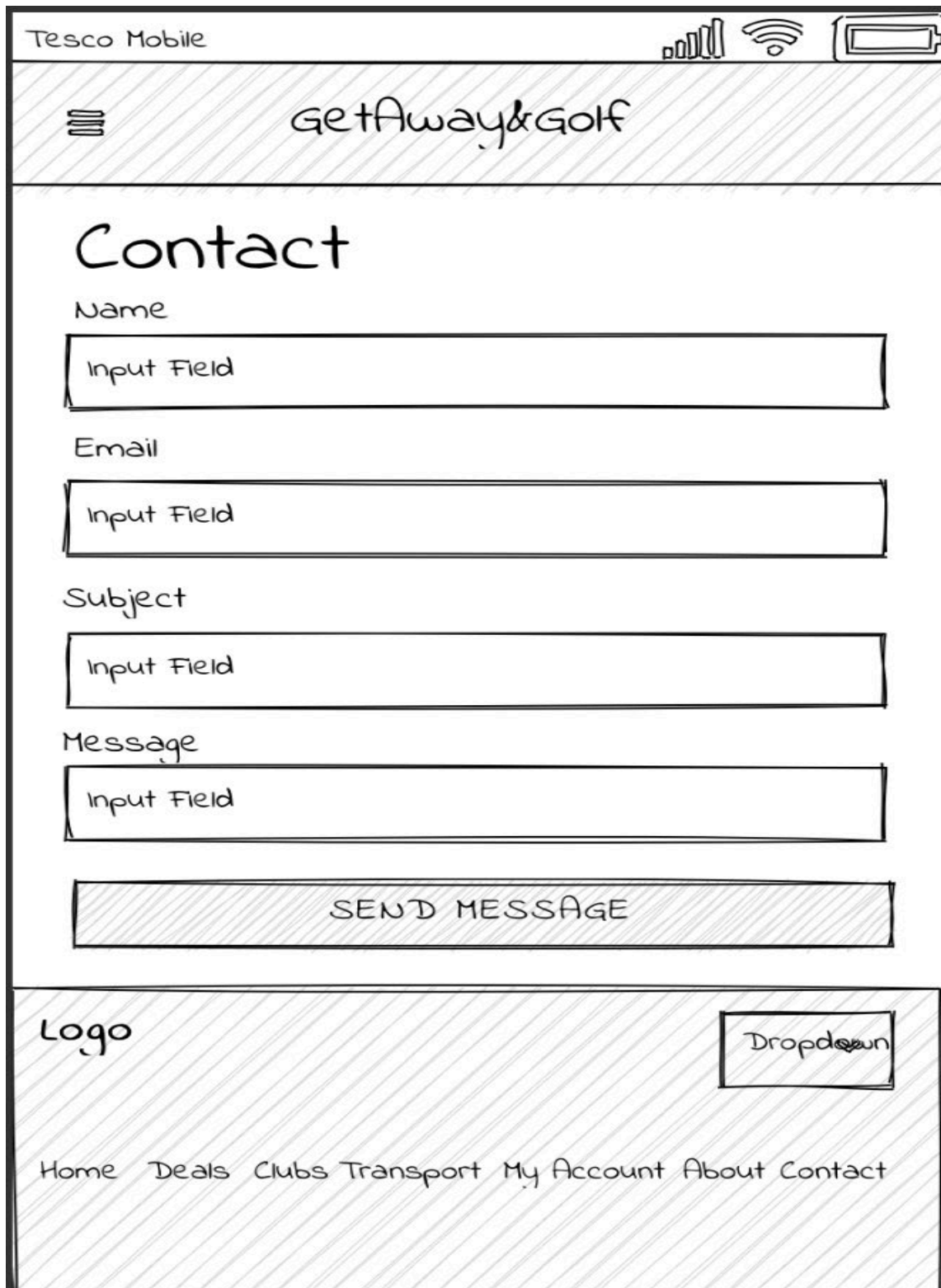
2.6 Requirements workshop: conducted after wire frames set one:

Following the completion of the first set of wireframes, a requirements workshop took place. At the requirements workshop, we sought to get feedback on the layout of the GetAway&Golf application. According to the MoSCoW technique, the wireframes were developed based on the requirements acquired during the elicitation process. Specifically, the wireframes depict the main pages of the app, which included all the requirements listed in the 'must' and 'should' sections of the MoSCoW analysis. Participants in the workshop included senior golfers, junior golfers, and taxi drivers. Several stakeholders commented that the app looked good and was easy to use. We were seeking this outcome, so this is great. As far as the sign up page is concerned, it was deemed satisfactory. It was noted that the My Account page allowed users to see their bookings, account balances, and edit their profiles. It was noted and complimented that the dropdown bar feature was available. This first prototype was well received by the senior golfer, who is convinced they can use it. We were able to filter all transport bookings, and golf bookings, by location, which made the junior golfer happy. In the taxi driver's opinion, the transport was clean and simple, which they deemed promising.

There were criticisms made regarding the first set of wireframes that the stakeholders would like to see addressed in the second set of wireframes and they included:

1. The need for a logo on the homepage rather than just "GetAway&Golf". The reason for this is to make it more visually appealing.
2. It was noted that we should add the google and twitter login option to make it "modern".
3. We were criticized for not having the "Society page" but we will make sure to have it in the next set of wireframes.
4. It was stated that the "location" search bar on the transport page should be called "search for transport".
5. The option to save a deal was proposed. So we will add that into the next set of wireframes.
6. The junior golfer suggested we add in a google maps geo location under neath the golf clubs to fill the page, and I think it's a good idea.

2.8 UML Use Case Diagram:
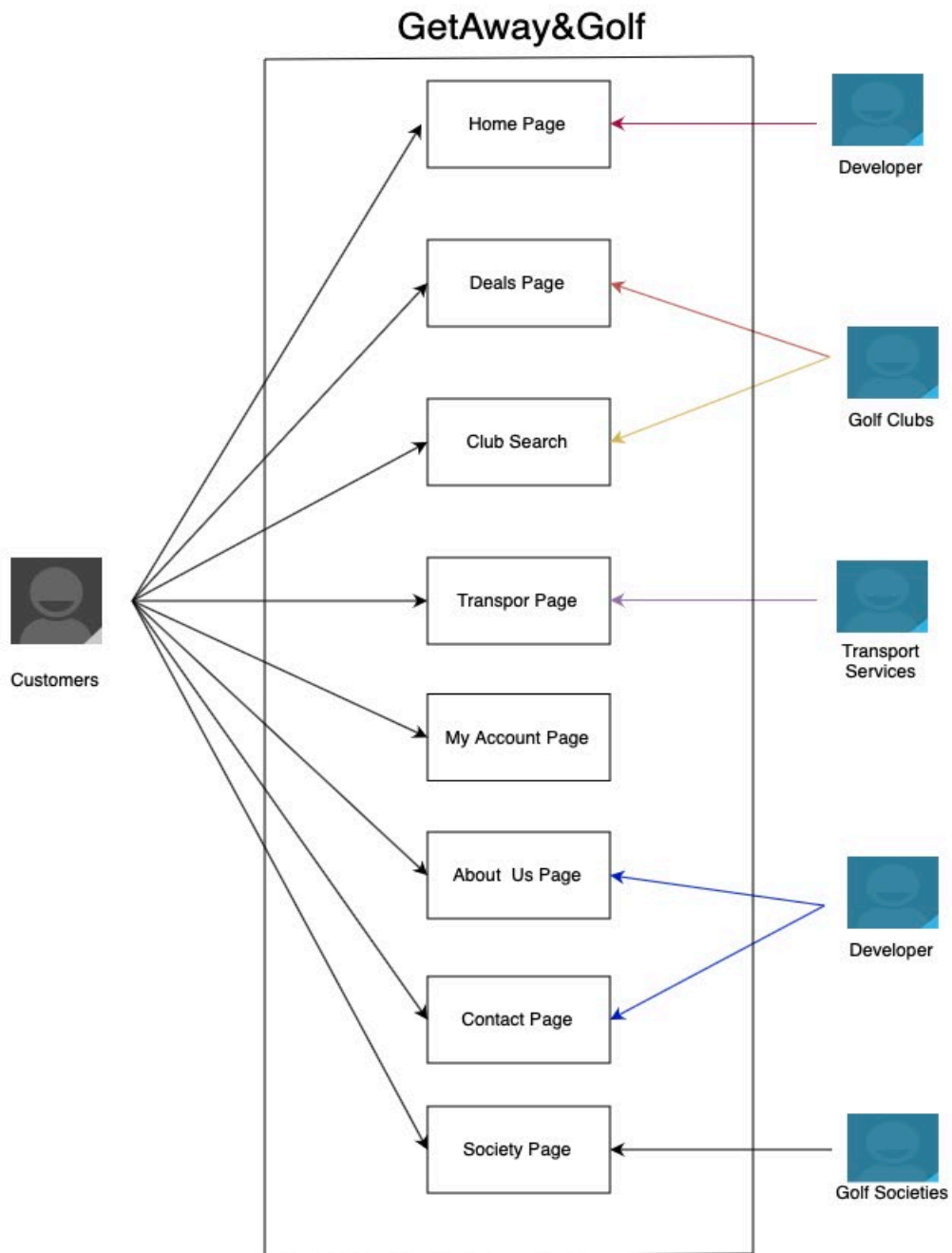
Using a use case diagram, one can visualize the interaction between stakeholders and GetAway&Golf. Stakeholders are represented outside GetAway&Golf's system boundary. There are a number of pages that make up the Getaway&Golf student app within this boundary. Stakeholders can be linked to specific pages depending on the colour of the lines. The user has access to each area of the app. The following pages are available: this home page, deal page, club search page, transport page, my account page, about us page, contact page, and society page. In each of the five admin roles, access is restricted to the specific areas where their permission lies.

Wireframes set 2
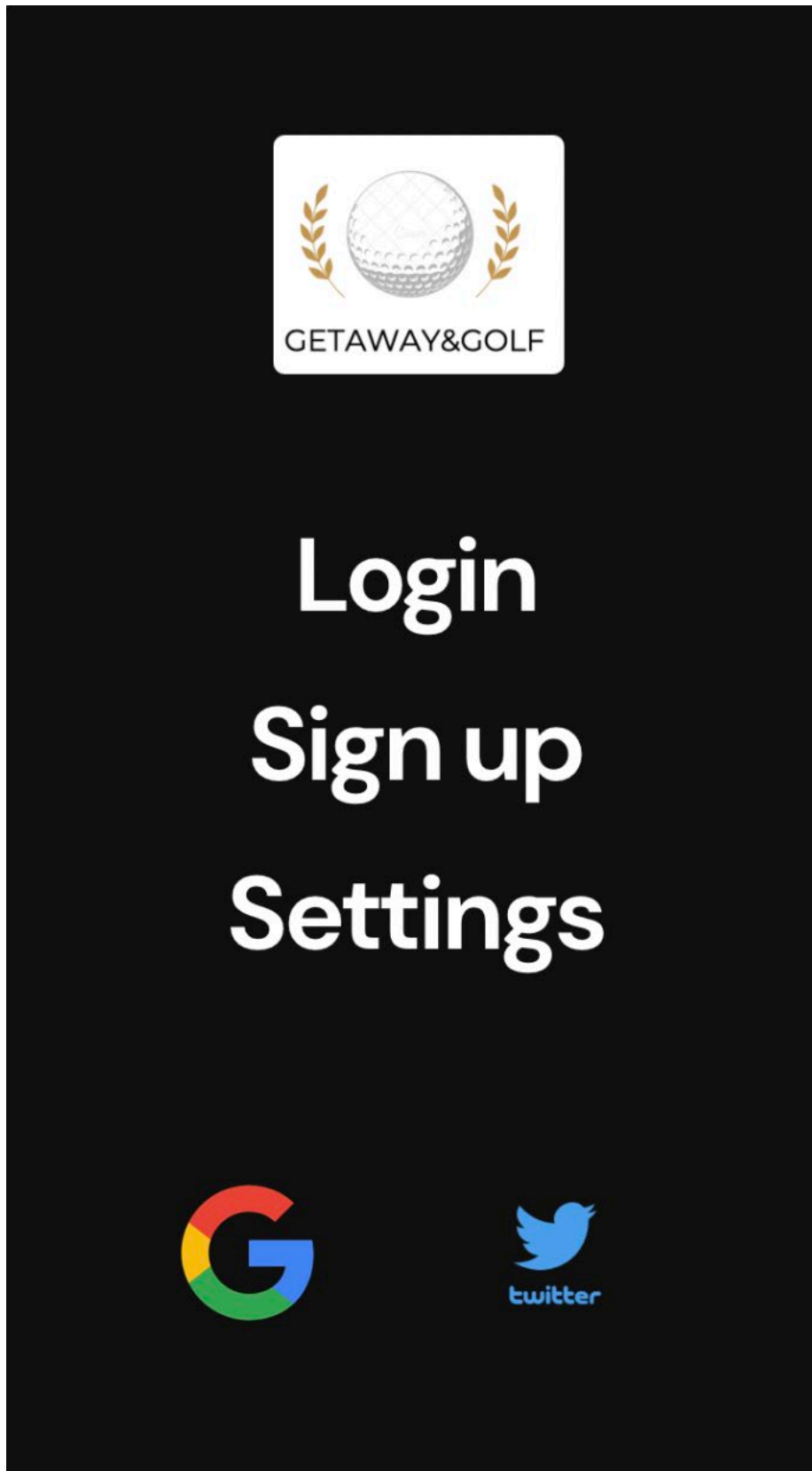
Transport

Search for a transport...

Local Taxi

View Deal

Local Bus

View Deal
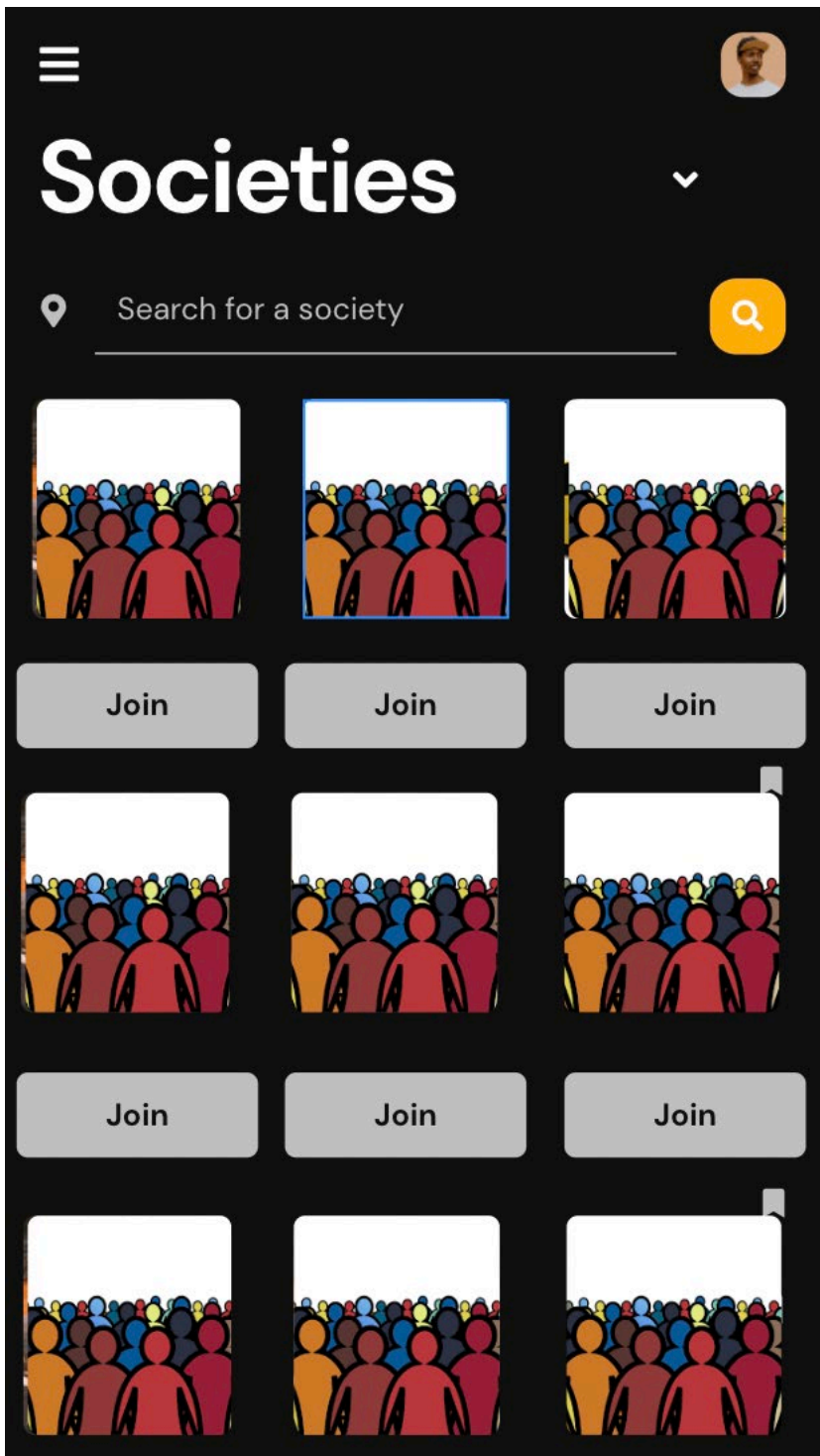
IEEE Requirement Specification

3.1 Introduction

Purpose:

The IEEE requirement specification document has the purpose of identifying and listing the key functional and non-functional requirements required in order to ensure that the GetAway&Golf App is developed correctly and the finished product meets the expectations and needs of stakeholders. For this reason, the final IEEE document will be reviewed by stakeholders to ensure that any changes are made and that expectations are met prior to development.

Scope:

Irish golfers have never had a functional deals app. Irish golfers have been booking their tee times via club website, phone, and seeing deals via social media. The demand for this type of application emerged after covid when many people did not re-join their golf clubs but are looking for a deal on the weekend. The current method for golfers having to look up deals on each club website is very time consuming, and can lead to potential customers not being bothered to spend the time researching the deals. The GetAway&Golf application will give golfers an easy to navigate app for IOS and Android that will allow golfers to view deals, book deals, book transport, message other GetAway&Golf users, and allows them access information such as ratings, opening hours, etc on each club. It will also give users a unique experience as they will be able to join local societies and customise their personal profile.

Functional Requirements

Class one: User

Functional requirement 1	
Identification Code:	FR1
Title:	Home page link
Description:	This link will be displayed in the navigation bar at the top of the page. The home page will have the basic information about GetAway&Golf with links to all of our other pages.
Location:	Home page
Priority:	Must have (High Priority).

Functional requirement 2	
Identification Code:	FR2
Title:	Deals page link
Description:	This link will be displayed in the navigation bar at the top of the page. The deal page will have all the golf deals, and will have the ability to filter by your area.
Location:	Home page
Priority:	Must have (High Priority).

Functional requirement 3	
Identification Code:	FR3
Title:	Transport page link
Description:	This link will be displayed in the navigation bar at the top of the page. This page will allow users to browse all of the transport available within their area.
Location:	Home page
Priority:	Must have (High Priority).

Functional requirement 4	
Identification Code:	FR4
Title:	Club page link
Description:	This link will be displayed in the navigation bar at the top of the page. This page will allow users to browse all of the available golf clubs . The page will also have other features such as a timesheet booking, and links to club information.
Location:	Home page
Priority:	Must have (High Priority).

Functional requirement 5	
Identification Code:	FR5
Title:	My Account page link
Description:	This link will be displayed in the navigation bar at the top of the page. The My Account Page will allow users review information about themselves they have chosen, such as: Name, Email, GUI Number, Account Balance etc.
Location:	Home page
Priority:	Must have (High Priority).

Functional requirement 6

Identification Code:	FR6
Title:	About us page link
Description:	This link will be displayed in the navigation bar at the top of the page. This page will allow users understand who we are, our mission and why we started this application.
Location:	About us Page
Priority:	Must have (High Priority).

Functional requirement 7

Identification Code:	FR7
Title:	Contact page link
Description:	This link will be displayed in the navigation bar at the top of the page.
Location:	Home page
Priority:	Must have (High Priority).

Functional requirement 8

Identification Code:	FR8
Title:	Notification System
Description:	The notification system will be used in many different areas of the app that include golf and transport bookings, and deals.
Location:	Throughout the GetAway&Golf Application
Priority:	Should have (Medium Priority).

Functional requirement 9	
Identification Code:	FR9
Title:	Calendar feature
Description:	The calendar feature will have all the users bookings for golf and transport on it.
Location:	My Account page
Priority:	Should have (Medium Priority).

Functional requirement 10	
Identification Code:	FR10
Title:	Edit Personal Information
Description:	The user can view and edit their personal information though the GetAway&Golf app. This information will include contact information, next akin and address.
Location:	My Account page
Priority:	Must have (High Priority).

Functional requirement 11	
Identification Code:	FR11
Title:	Messaging Feature
Description:	This feature will allow GetAway&Golf users message each other to organise or request to join them on the timesheets.
Location:	My Account page
Priority:	Must have (High Priority).

Functional requirement 12	
Identification Code:	FR12
Title:	FAQ for each club
Description:	Information about each club will be provided in this FAQ section.
Location:	Club Search page
Priority:	Could have (Low Priority).

Functional requirement 13	
Identification Code:	FR13
Title:	Club Opening Times
Description:	Using this feature, you'll be able to see what time each club is open each week.
Location:	Club Search page
Priority:	Should have (Medium Priority).

Functional requirement 14	
Identification Code:	FR14
Title:	Club Phone Numbers
Description:	Phone numbers for each club should be listed in the club page.
Location:	Club Search page
Priority:	Could have (Low Priority).

Functional requirement 15	
Identification Code:	FR15
Title:	Transport Phone Numbers
Description:	Local transport phone numbers will be available to users when they filter by their locations.
Location:	Transport page
Priority:	Must have (High Priority).

Functional requirement 16	
Identification Code:	FR16
Title:	Newsletter
Description:	The newsletter will feature app updates, golf deals, transport deals, and growing societies.
Location:	Deals page
Priority:	Could have (Medium Priority).

Functional requirement 17	
Identification Code:	FR17
Title:	Recent bookings
Description:	The recent bookings feature will be in your profile page and it will describe what you have booked, the date you have booked, and an image of the booking ie. Golf club picture, taxi, etc.
Location:	My Account Page
Priority:	Must have (High Priority).

Functional requirement 18	
Identification Code:	FR18
Title:	Sign up
Description:	This feature will allow the customers set up their MyGetAway&Golf profile.
Location:	Home Page
Priority:	Must have (High Priority).

Functional requirement 19	
Identification Code:	FR19
Title:	Login via google
Description:	This feature will allow the users login to their MyGetAway&Golf profile through google to save them signing up.
Location:	Home Page
Priority:	Should have (Medium Priority).

Functional requirement 20	
Identification Code:	FR20
Title:	Login via twitter
Description:	This feature will allow the users login to their MyGetAway&Golf profile through twitter to save them signing up.
Location:	Home Page
Priority:	Should have (Medium Priority).

Functional requirement 21	
Identification Code:	FR21
Title:	Meet the team
Description:	This section of the about us page is critical as it gives an insight to the people running the application.
Location:	About us Page
Priority:	Could have (Low Priority).

Functional requirement 22	
Identification Code:	FR22
Title:	Booking feature
Description:	This feature is to allow the user proceed in booking the service they want within the app.
Location:	Club Page
Priority:	Must have (High Priority).

Functional requirement 23	
Identification Code:	FR23
Title:	View booking receipts
Description:	This feature will allow you see the receipts of your bookings which will show: Paid by: Visa / Mastercard, price, club information, etc… This will be displayed in a pdf document format.
Location:	My Account Page
Priority:	Could have (Low Priority).

Functional requirement 24

Identification Code:	FR24
Title:	Transaction finalised
Description:	The transaction finalised function will be a secure page for users to view their card being accepted, and the item purchased.
Location:	Booking Page
Priority:	Must have (High Priority).

Functional requirement 25

Identification Code:	FR25
Title:	Society forms
Description:	This feature is a section of the society pages where everyone can comment and chat to each other within the society.
Location:	Society Page
Priority:	Could have (Low Priority).

Functional requirement 26

Identification Code:	FR26
Title:	Notice board for societies
Description:	The notice board for societies will include information about the next event which will be posted by the society organiser.
Location:	Society Page
Priority:	Should have (Medium Priority).

Functional requirement 27	
Identification Code:	FR27
Title:	Users can add a friend
Description:	This feature will allow users to add on another which will allow them privately interact.
Location:	My Account Page
Priority:	Must have (High Priority).

Functional requirement 28	
Identification Code:	FR28
Title:	Users can upload a profile picture
Description:	This feature will allow users to post a picture of themselves so people can know who they are, etc.
Location:	My Account page
Priority:	Should have (Medium Priority).

Functional requirement 29	
Identification Code:	FR29
Title:	User identification
Description:	This is a key feature within this application as it will ensure the user is who they say they are through a series of tests, such as passport photo, phone number texts, etc.
Location:	Sign up page
Priority:	Must have (High Priority).

Functional requirement 30

Identification Code:	FR30
Title:	Weather information
Description:	This feature will use an api to show the weather at the golf club of your choice.
Location:	Club page
Priority:	Could have (Low Priority).

Functional requirement 31

Identification Code:	FR31
Title:	Sign up to societies on the GetAway&Golf app.
Description:	Signing up to societies will allow users meet new people, play more golf, and feel involved.
Location:	Society page
Priority:	Must have (High Priority).

Functional requirement 32

Identification Code:	FR32
Title:	Society page link
Description:	This link will be displayed in the navigation bar at the top of the page. The society page will contain the societies you are in, open societies to join, etc.
Location:	Home page
Priority:	Must have (High Priority).

Functional requirement 33

Identification Code:	FR33
Title:	Contact form feature
Description:	This will be displayed on the contact page to allow users contact us for various reasons. It is very important that we have this feature as the user could be pointing out bugs we haven't seen and we need to look after our users to retain them.
Location:	Contact page
Priority:	Must have (High Priority).

Functional requirement 34

Identification Code:	FR34
Title:	Google maps for golf club directions
Description:	This will allow users to access the directions for the golf club of their choosing, and show the distance it is through Kms from the location you put in.
Location:	Club page
Priority:	Must have (High Priority).

Functional requirement 35

Identification Code:	FR35
Title:	Location filter feature
Description:	This feature will allow users to filter the clubs and deals to show them in their area, or an area of their choosing.
Location:	Club search page & Deals page
Priority:	Must have (High Priority).

Functional requirement 36	
Identification Code:	FR36
Title:	Gallery of golf course images
Description:	This will show the pictures the golf club wants to display for their page.
Location:	Club page
Priority:	Could have (High Priority).

Functional requirement 37	
Identification Code:	FR37
Title:	Club social media account links
Description:	This will bring users to the clubs social media accounts, such Instagram, Twitter, Facebook, etc.
Location:	Club page
Priority:	Should have (Medium Priority).

Functional requirement 38	
Identification Code:	FR38
Title:	Club website link
Description:	Accessing this link will bring to the clubs website .
Location:	Club page
Priority:	Must have (High Priority).

Class two: Admin

Functional requirement 39	
Identification Code:	FR39
Title:	Manage Club Page
Page permissions:	Golf Clubs
Outcome:	This allows the club page administrator to ensure that the club pages only have club information on them.

Functional requirement 40	
Identification Code:	FR40
Title:	Manage home page information
Page permissions:	Developer
Outcome:	This allows the developer to edit, add, or move information that's associated with the home page.

Functional requirement 41	
Identification Code:	FR41
Title:	Manage transport information
Page permissions:	Transport Services
Outcome:	This allows transport services to add or delete posts for their service.

Functional requirement 42	
Identification Code:	FR42
Title:	Administrator login
Page permissions:	Developer, Transport Services, Golf Clubs, Society Organiser
Outcome:	The admins will be required to login with their given email and password before they are able to add, edit, and move any of the information attached with their account.

Functional requirement 43	
Identification Code:	FR43
Title:	Manage deals information
Page permissions:	Developer
Outcome:	Managing deals information allows the developer to ensure that there's only deals associated with golf clubs added to this page, and they have the permission to remove any that they do not see fit.

Functional requirement 44	
Identification Code:	FR44
Title:	Manage calendar widget for open competitions
Page permissions:	Golf clubs
Outcome:	Managing the calendar allows the golf clubs to add, edit, or delete their own calendar to display what events they have on.

Functional requirement 45	
Identification Code:	FR45
Title:	Manage About us information
Page permissions:	Developer
Outcome:	Managing this information allows the developer to add, update, or delete information, sections, etc associated with the about us section.

Non-functional requirements:

Non-Functional requirement 1	
Identification Code:	NF1
Title:	Admin Login
Description:	If an administrator has logged in, he or she should be able to make changes to their specific page(s) without any delay. A page should reload within 30 seconds of a change being made, and the update applied.

Non-Functional requirement 2	
Identification Code:	NF2
Title:	GetAway&Golf available 24/7
Description:	The GetAway&Golf app must always be available to users at all times.

Non-Functional requirement 3	
Identification Code:	NF3
Title:	Page loading times
Description:	Each page on the GetAway&Golf app should load between 5 -10 seconds after the user has selected the page.

Non-Functional requirement 4	
Identification Code:	NF4
Title:	Login
Description:	Only GetAway&Golf users can access the app to encourage everyone to sign up and get involved information.

Non-Functional requirement 5	
Identification Code:	NF5
Title:	Logout
Description:	When a user logs out of the GetAway&Golf app, the app should close the app within 15 seconds of the user clicking the logout button.

Non-Functional requirement 6	
Identification Code:	NF6
Title:	Society board posts
Description:	When the user adds their post to the board it will be viewable to other users within 10 seconds. The user who owns this society "society organiser" must be notified when someone posts on their page.

Non-Functional requirement 7	
Identification Code:	NF7
Title:	Tee Time Confirmation
Description:	Tee Time confirmation must be sent to the user once they have booked their slot.

Non-Functional requirement 8	
Identification Code:	NF8
Title:	Easy to navigate
Description:	A user should be able to easily navigate GetAway&Golf. Among other things, the user must be able to easily read buttons and move around the site.

Non-Functional requirement 9	
Identification Code:	NF9
Title:	Login Credentials
Description:	An unsuccessful log in attempt should be notified within 15 seconds to the user. There are two outcomes from this process. After successful log-in, the user is redirected to the home page B) If the email and password do not match, the user is prompted to log in again.

Non-Functional requirement 10	
Identification Code:	NF10
Title:	Refresh pages
Description:	Each page within the GetAway&Golf must refresh within 30 seconds to ensure all content is up to date.

Non-Functional requirement 11	
Identification Code:	NF11
Title:	User Support
Description:	There must be support available for users within the GetAway&Golf application.

Project Proposal

Objectives

Getaway&Golf sets out to fill the gap for golfers in the Irish market. Our main goal is to provide a quality booking service, and we will also be able to help multiple Irish golf clubs and transport companies in the process.

I will achieve this by completing the following steps:

1. Create a business analysis requirements report for a travel agency that focuses on golf. This will allow clients to book their golf trips and transport in one place.

2. Assemble a list of possible stakeholders who will be Involved / Impacted by the project.

3. Conduct interviews and send out surveys to selected stakeholders.

4. Create a list of customer requirements by using Babok and feedback from our interviews.

5. Design wireframes using Adobe XD

6. Develop a WordPress website and apply the customers' needs to meet users' requirements.

Background

I chose to undertake this project as I am a keen golfer and saw a space in the market to develop this project. I will be able to achieve the objectives set out in section 1.0 by doing the following:

1. Creating a comprehensive word document and filling in all the required sections for a business analysis report.

2. I will assemble a list of possible stakeholders by conducting comprehensive research into who will be potentially involved and impacted by this project.

3. Identifying who are the primary stakeholders in this project and organising an interview with a mix of questions to help us understand what needs we need to meet and apply any feedback. We will also need to send out a survey using

Google forms to a mix of stakeholders with a variety of questions to help me out with the project.

4. Gather the feedback from the surveys and interviews.

5. I will look into competition's websites and see what I like and dislike about them, and then use Adobe XD to design a sample website to show to stakeholders. I will then use any feedback on my WordPress site.

6. By applying feedback from the fifth objective, I will then use my updated wireframes to create my final product on WordPress.

State of the Art

<u>CARR GOLF</u>

CARR GOLF is an Irish-owned luxury travel and golf operator. They organise golf events and tours around Ireland, Scotland, and England. CARR Golf was also awarded Golf Digest's Editors' Choice for "Best Tour Operator 2017".

Positives:
-   Nice website
-   Good Reputation

Negatives:
-   Not many features, just information, and contact forms
-   Concentrate on a mostly foreign clientele

<u>Cassidy Golf</u>

Cassidy Golf is owned by Cassidy Travel, which is Ireland's Multi-Award Winning Travel Agency. It is owned by the Cassidy family and was voted Ireland's best travel agency by the readers of The Irish Independent newspaper.

Positives:

- Good functionality
- Focuses on both local and foreign clientele

Negatives:

- Poor website design
- Focuses on mostly European golf trips

GolfNow.ie

Golf Now is an application based booking service for golf tee times. It was established in 2001 by Cypress Golf Solutions in The United States of America.

Positives:

- Modern
- Unique
- Large user base
- Uses a web based site, app store and play store applications

Negatives:

- Reported that not all the courses are listed
- Charge a booking fee so the deals turn out to not be as good as they seem
- Rated 2.4 stars on Trust Pilot, so it doesn't have a good reputation

My proposed application stands out from these three businesses for the following reasons:

- Will be more focused on Irish Clientele, and will offer more golf clubs throughout Ireland.
- Have messaging feature users can opt-in/out of, that will allow them to contact other customers to arrange to play together.

- Access to local public/private transport information.

- Transport Booking System.

Technical Approach

The methodology I will follow for this project:

1. Requirements Assembly & Documentation:
   This involves me meeting with selected stakeholders who I feel will be impacted or involved in the project. The main purpose of this meeting will be to outline my goals with the website and its prime features. I will then document all of the requirements I receive from stakeholders and apply them to my website.

2. Prototype:
   The prototype stage will involve me using Adobe XD to create a wireframe which will be then presented in my video for my midpoint presentation and potentially be the final product for my website. Upon completion of my first set of wireframes, I will then conduct another meeting with the selected stakeholders to get more feedback.

3. Website Development:
   The website development involves me applying my final wireframes and feedback to WordPress. Upon completion, I will then send the stakeholders a link to the site, where they can critique it. This site will be edited right until the end of the project in May, as this is what I will be showing on my laptop for my project showcase.

4. Post Website Development:
   This involves me applying feedback received by stakeholders and my supervisor to ensure I create the best possible product.

I will conduct a brainstorming session whereby I will outline any stakeholders in this project. I will then separate them into who is involved/impacted. The next step will be to conduct an importance/influence matrix and apply my list of stakeholders to the matrix. The last step will be listing the best ways to contact/engage with the stakeholders to organise interviews or to send then surveys.

The First elicitation technique that I think is suited to this type of project is Surveys. This will help me collect a vast amount of data quickly and at no cost. I will use tools such as Google forms for my surveys.

 The reason I chose this technique is that it is the technique that is used in business to decipher if a product is demanded in the market, etc.

The Second elicitation technique that I will be using is Interviews. This will be an important part of my project as I will be receiving first-hand information from my primary stakeholders. The interviews will be designed to gather specific answers that I need for conducting my project.

The Third elicitation technique is Focus Groups. A focus group is a group interview that involves people with similar interests. I will then evaluate the answers I get through this technique and act on the results I find.

The Fourth elicitation technique that I will be using is Document Analysis. I will review and apply any good information that I can find that will help me with the project.

I will break down my project tasks, activities, and milestones by reviewing the rubric on the Moodle page and using excel to create a Gantt chart to break it down into manageable chunks.

Technical Details

Getaway&Golf will be a very comprehensive project, and I will use many technologies over the next 6 months. The following are some of the main technologies that I will be using throughout this project:

Google Forms – This is used for creating surveys and I will use it for creating my stakeholder questionnaire.

Microsoft Excel - This application is a spreadsheet that was developed by Microsoft and will be used in my project for managing my Gantt chart.

Microsoft PowerPoint - This is a presentation program and I will be using this for my midpoint presentation and the project showcase.

Adobe XD - This is a design tool for web and mobile apps, I will use this for my wireframes.

Microsoft Teams - This application is a business communication platform developed by Microsoft. I will be using this application for communicating with my project supervisor.

Microsoft Word - This application is a word processing software developed by Microsoft, and I will be using it for all my write-ups in this project.

iMovie - This application is made by Apple and is used for editing videos, I will be using this for my Project Pitch, Midpoint Presentation, and any further videos I need to create throughout this project.

As the project progresses, I am sure that I will be using more technologies than I have listed above, I will be adding them to my monthly reports as I go.

I have decided to use WordPress to construct my project website and Adobe XD will be used to develop the website wireframes. This is a free, open-sourced content management system, it is user-friendly and offers many customizations that are not offered in other management systems such as Wix. WordPress also has a feature where you can add your code, which will allow me to satisfy the customers' requirements for the website. Once I have completed the steps outlined in my Gantt chart below, I will then begin to create the project's website. Since the website is a decent % of the grading rubric, I will be making sure that plenty of time is put into it. Since I have very minimal experience with WordPress, I will do the following to make sure I improve my skills:

- Attend WordPress workshops
- Watch YouTube tutorials
- Read written tutorials online
- Get a WordPress book in the library

Project Plan

The following is a Gantt Chart that I have made using excel, and this outlines my project timeline.
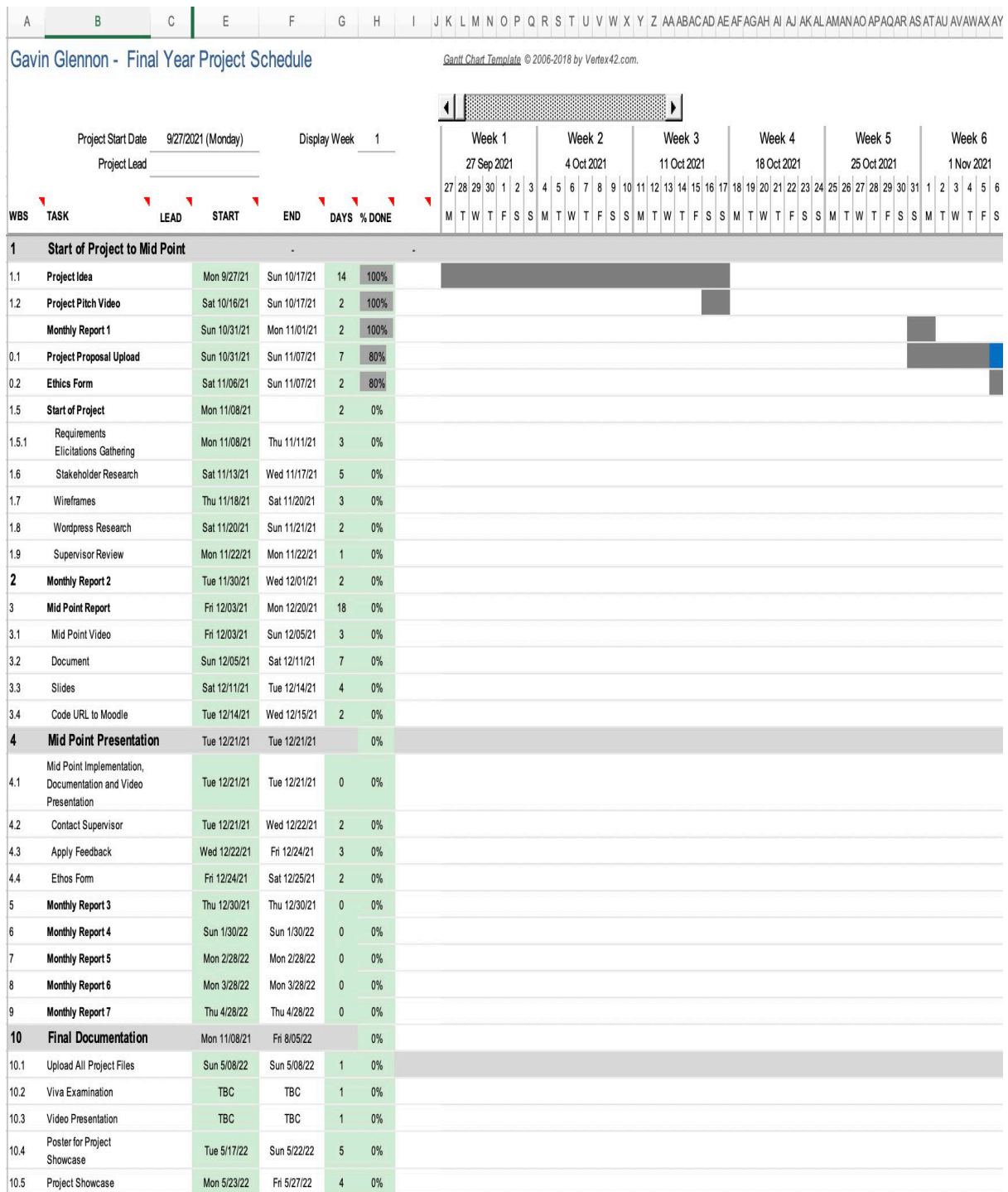
I have broken down the Gantt chart and have described each step in detail below:

Project Idea – This is where I will research and come up with an idea
Project Pitch Video – Uploading a video of me talking about my project idea
Monthly Report 1 – Documentation of what work I did for my project that month
Project Proposal Upload – Upload of the first documentation for my project
Ethics Form – Signing the college ethics form for the project
Start of Project – Start of the research into the project
Requirements Elicitations Gathering – Researching and gathering the elicitation techniques needed for my project
Stakeholder Research – Researching who will be involved/impacted by my project
Wireframes – Designing the website to meet users requirements
WordPress Research – Research into WordPress tutorials and start to build the website
Supervisor Review – Meeting with my supervisor via Teams and chatting about what I have done and acted on any feedback I receive
Monthly Report 2 - Documentation of what work I did for my project that month
Mid-Point Report - Report consisting of the following: Video, Slides, Document, URL
Mid-Point Video – Video of myself talking about what I have done since my project proposal
Document – Upload of documentation thus far
Slides - Unknown
Code URL to Moodle – Website URL
Mid-Point Presentation – Presenting what I have done in my project so far
Mid-point Implementation, Documentation, and Video Presentation - Midpoint Upload
Contact Supervisor – Messaging my supervisor via Microsoft Teams to get feedback on the work I have done thus far
Apply Feedback – Act on feedback received by my supervisor
Ethos Form – Signing off on the ethos form to verify the credibility of the project
Monthly Report 3 - Documentation of what work I did for my project that month
Monthly Report 4 - Documentation of what work I did for my project that month
Monthly Report 5 - Documentation of what work I did for my project that month
Monthly Report 6 - Documentation of what work I did for my project that month

Monthly Report 7 - Documentation of what work I did for my project that month
Final Documentation – Poster – Document – Video – Website
Upload All Project Files – Final upload of all my project work
Viva Examination – Presenting my project to my supervisor, markers, etc
Video Presentation – Video of myself presenting my project
Poster for Project Showcase – Designing a brief poster that describes what my project is
Project Showcase – Showcasing my project in the college to fellow students, lecturers, and external personnel

Validation/Verification

I will validate and verify the user's requirements throughout the project by using these elicitation techniques:

1. **Surveys**
2. **Brainstorming**
3. **Interviews**

The following represents the steps involved in validating and verifying the user's requirements:

1. **Identifying the users' needs.**
2. **Brainstorm for the important stakeholders.**
3. **Select a suitable elicitation technique, an example would be Survey, Focus Group, or interview.**
4. **Create a suitable questionnaire for your selected elicitation technique**
5. **Contact your selected stakeholders**
6. **Organise a date/time for your Focus Group or Interview or Send them a link to a survey.**
7. **Conduct your elicitation technique.**
8. **Document the answers to your questions.**
9. **Conduct an extensive analysis of all your answers over your different techniques and find common answers.**
10. **Apply the results to your website.**
11. **Re-Contact the stakeholders that took part, and show them the result of their suggestions.**
12. **Take note if this met their requirements.**
13. **List any stakeholder who hasn't had their requirement met.**
14. **Apply the results to your website again.**
15. **Re-Contact the stakeholders that did not have their requirements met, and show them the result of their suggestions.**
16. **Repeat this process until the user is happy.**

I believe by following the steps above you will be able to stay on top of communicating and meeting the requirements of the user.

Monthly Reports

Monthly Report 1

Supervision & Reflection Template	
Student Name	Gavin Glennon
Student Number	X18474094
Course	Technology Management

Month: October

What?
Reflect on what has happened in your project this month?
In the month of October, I did the following in my project:
- Decided on my project idea
- Communicated with my project supervisor
- Completed my project proposal
Supervisor communication:
Noel introduced himself to me as my project supervisor and we disused possible project ideas.
So What?
This month has been successful as I have met the requirements that have been expected of me. I successfully came up with a project idea that was accepted by the college. The challenges over the next month will be to meet the requirements for the midpoint next month.
Now What?
To meet the outstanding challenges, I could get started on breaking down the midpoint marking scheme and gather information to meet it.

Apprentice Signature	Gavin Glennon

Monthly Report 2

Supervision & Reflection Template	
Student Name	Gavin Glennon
Student Number	X18474094
Course	Technology Management

Month: November

What? Reflect on what has happened in your project this month? In November, I did the following in my project: - Researched Elicitation Techniques - Introduction - Business Use - Business Case - Communicated with my project supervisor - Uploaded my project proposal
Supervisor communication: Myself and Noel discussed my project proposal and it's due date.
So What? This month has been successful as I have met the requirements that have been expected of me. The challenges over the next month will be to meet the requirements for the midpoint next month and make sure I complete a minimum of 2 techniques.
Now What? I need to research stakeholders and complete a stakeholder matrix grid, complete 2 techniques, and meet what is expected of me for my mid-point presentation.

Apprentice Signature	Gavin Glennon

Monthly Report 3

Supervision & Reflection Template	
Student Name	Gavin Glennon
Student Number	X18474094
Course	Technology Management

Month: December

What? Reflect on what has happened in your project this month? In December, I did the following in my project: - Completed 2 Elicitation Techniques (Brainstorming, and Survey) - Stakeholder Matrix Grid - Completed Mid-Point Slides - Created Mid-Point Video - Communicated with my project supervisor - Uploaded my Mid – Point Presentation
Supervisor communication: Noel got in contact with me to see if I needed any help, or to ask him any questions before the submission date. We had a quick call and he was happy with how I was progressing.
So What? This month has been successful as I have met the requirements that have been expected of me. The challenges over the next month will be to stay on track due to the second round of ca's for my first semester are due.
Now What? I need to develop an updated version of my Gantt chart to stay up to date – Set up my project website via Wix – Complete another 2 Elicitation Techniques

Apprentice Signature	Gavin Glennon

Monthly Report 4

Supervision & Reflection Template	
Student Name	Gavin Glennon
Student Number	X18474094
Course	Technology Management

Month: January

What?
I uploaded my midpoint presentation at the start of the month. I then went on to review my stakeholders and identify who would be a good fit for our two interviews this month. I then conducted the two interviews with the stakeholders. It was a success as I didn't have much experience in conducting interviews before.

So What?
This month has been successful as I have met the requirements that have been expected of me. The challenges over the next month will be to identify the next set of interviewees.

Now What?	
I need to review my stakeholder list, identify suitable candidates, contact them, and organise an interview.	
Apprentice Signature	Gavin Glennon

Monthly Report 5

Supervision & Reflection Template	
Student Name	Gavin Glennon
Student Number	X18474094
Course	Technology Management

Month: February

What?
I started the month off my completing my 3rd interview which was a success. I then finished off the month with my 4th interview. I feel this month was a success as I completed two interviews. The stakeholders who took part were great and they really helped me understand how they felt about this application.
Supervisor communication:
Noel gave me my result of 75 for the midpoint which I was very happy about.
So What?
This month has been successful as I have met the requirements that have been expected of me. The challenges over the next month is to find suitable stakeholders to conduct interviews with.
Now What?
I need to develop review my stakeholders and decide who I want to interview for my 5th and final interview.

Apprentice Signature	Gavin Glennon

Monthly Report 6

Supervision & Reflection Template	
Student Name	Gavin Glennon
Student Number	X18474094
Course	Technology Management

Month: March

What?
I started the month of march by developing my Moscow analysis. I then completed my 5th and final interview. This seals off the interview elicitation technique. I then moved onto prototyping and developed the first set of wireframes. The completion of these two elicitation techniques was a success.
Supervisor communication:
Noel and I discussed how I was getting on with the project and I asked him a few questions I had and he got back to me with the answers.
So What?
This month has been successful as I have met the requirements that have been expected of me. The challenges over the next month will be to stay on track any complete my final elicitation techniques.
Now What?
I need to decide what stakeholders will be the right fit for the requirements workshop that will be taking place at the start of next month.

Apprentice Signature	Gavin Glennon

Monthly Report 7

Supervision & Reflection Template	
Student Name	Gavin Glennon
Student Number	X18474094
Course	Technology Management

Month: April

What?

At the start of the month I completed the requirements workshop followed by the UML. I then started working on the final part of this project after completing my final exam on the 14th of April 2022. IEEE specifications for requirements are listed in this section. This document includes a list of both functional and non-functional requirements related to the new application. Following this, I reviewed my document, made my project poster, and updated my website. By the original upload date: 8th May, I hope to have the document, poster, and website completed. There will be plenty of time for me to review my work as well as start working on the final phase of the project, the slides, and presentation due the 22nd of May.

Supervisor communication:

Myself and Noel discussed what was required for the website and he told me I was to "describe/illustrate the process I followed at each stage and the out puts at each stage". He then contacted me a few days ago to organise a call before the final upload.

So What?

This month has been successful as I have met the requirements that have been expected of me. The challenges over the next month will be to stay on track with my goals as the next month is critical in my success of completing this project.

Now What?

I need to review my document, poster, and website to make sure it has the attention to detail for the grade I sought to achieve.

Apprentice Signature	Gavin Glennon

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