Declaration Cover Sheet for Project Submission

SECTION 1

|	
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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 (summarised overleaf and printed in full in the Student Handbook) and that the work I have submitted for assessment is entirely my own work.

Signature: _____ Date: _____

NB. If it is suspected that your assignment contains the work of others falsely represented as your own, it will be referred to the College's Disciplinary Committee. Should the Committee be satisfied that plagiarism has occurred this is likely to lead to your failing the module and possibly to your being suspended or expelled from college.
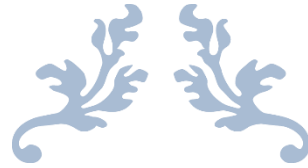
WE DO WEDDINGS

Technical Report

Sharon O'Doherty, x12120251

Business Information Systems

Contents

Executive Summary

Weddings are getting bigger and more extravagant every year, this is down to a number of reasons such as more cash flow, more available services, and most importantly, the internet. You can't walk down the street in Dublin without seeing people take selfies to post on Instagram, Facebook, Twitter and other social media. With this culture change, people are under pressure to look their best, and this has become evident in Irish weddings. There is an abundance of wedding information online, articles named "How to stand out on your wedding day", "Follow these steps to be a beautiful bride" and so on. There is a lot of pressure on couples now to outdo past weddings, with this, wedding specific websites have become extremely popular.

The most popular in Ireland is One Fab Day. I had never heard of this website before getting engaged, then I was inundated with friends and family sending me articles about attire, decorations, to do lists etc. mostly originating from this website. It didn't take long for me to get hooked and see why it is so popular. They have covered all aspects of weddings; in every style you can possibly imagine. Suppliers are eager to advertise on this site as its popularity is evident when it is mentioned regularly as the place the couple found their suppliers. The website even gives awards to suppliers, I have seen many of these proudly on display in venues I have visited over the last few months.

We Do Weddings takes the popular aspects from this website, but builds on them. My website covers a variety of different topics relating to weddings: there are planning hints and tips that will take you right from the engagement to the honeymoon, a weddings stories page where you can read about real life weddings from guest writers, including photographs, when visitors register they can create a personalised to do list for their own wedding and supplier information for a range of different suppliers from around Ireland.

Having so much information available can also have its drawbacks, in that you spend hours/days/weeks reading and researching the options available. We do weddings reduces the amount of time wasted on supplier research by allowing users to view supplier calendars to firstly ensure they are free on their desired date and also allows user to create their own interactive personalised to-do list so they can decide what kind of day they want and tick off their tasks as they get through them.

Introduction

We Do Weddings will be a one stop shop to help couples plan their wedding day. The website will give various types of information, such as:

- Lists of venues, bands, photographers, videographers, hair and make-up artists that they need to research, contact and book;
- The option to check the calendars for the above suppliers to see if they are free on the desired date;
- A weddings stories page that will tell peoples real wedding stories, each written by guest brides or grooms;
- Planning tips to make the process as smooth as possible;
- Personalised to-do lists for couples to keep tract of their tasks.

Structure

The structure of this technical report is designed to explain the website right from the concept, to planning, research, implementation and analysis.

The Executive Summary briefly explains the gap in the market that this website is addressing and why it was chosen as a viable project to develop.

The Introduction section describes the background of how this website idea was thought of, and gives details on the research conducted to confirm if this idea was viable. It then explains the aims of the website and the technologies used to create it.

The System Requirements section goes through the functional and non-functional requirements for this website.

The System Architecture section gives a high level overview of the architecture behind the application.

The Graphical User Interface section goes through each page on the website, explaining what the look and feel is like.

The Implementation section goes through each technology and language used to implement my project and gives interesting code snippets.

The Testing section is mainly displaying the testing scripts that I developed and have completed by other people – one peer, once customer and one supplier.

The Evaluation section details what measures I used to evaluation and test the project to ensure I got the desired end result.

The Conclusion gives a brief breakdown of my experiences developing this project.

The Further Development section lists the desired futures plans for this website.

Background and Research

This website idea was brought on by my own frustration at trying to book a venue for my wedding. If you wish to have a wedding less than a year from your engagement, it can be quite difficult in finding a venue that has available weekends, particularly in the summer months. This leads to a lot of frustration and disappointment which can take from your initial excitement and celebrations of your engagement. The first question people ask after your engagement is when you are going to get married but if you don't have a venue booked it can be near impossible to answer this question. Personally, when I got engaged we chose a date which would have been 11 months away. This date was in August and although we were aware that some venues would already be booked we were shocked to find that we were struggling to find any reasonable venue with availability after weeks of research. As we were both busy with work and college etc. we didn't have the time to spend further weeks and weeks researching (after approximately 30 venue rejections) we decided to change our date to six months later, in a winter month which was less popular.

If there was an option for us to go to a website and find out exactly what venues were available to us during August this could have prevented us from having to change the date, but no such option exists.

My hope for this website is to help with the early preparations, making the process a little easier for excited and overwhelmed couples.

As this service would be new to the Irish wedding market, I did research to find out if couples agreed that this would be helpful and if suppliers would sign up to it.

I created two surveys, one to be sent to Irish couples that are either planning a wedding, or have recently gotten married. I found these couples by utilizing friends and family by getting them to send me contact details of people that fit that criteria.

My findings from this survey were very positive, I asked 13 questions that gathered information about couple's online experience when planning a wedding. On the question: *Would you like to have the option to check the supplier's calendars to see if they if they are available on your wedding day?* This question was answered yes 100% of the time (11 responses).

Below is a screenshot of the survey:

Wedding Website questionnaire

1. In the lead up to your wedding, did you do much online research?

2. Did you go to websites that stored information for multiple events or where they wedding specific?

3. If wedding specific, please name your favourite website?

4. What did you find helpful on this website?

5. Did you book any suppliers based on information found on this website?

6. Did you find the website gave sufficient information on how to contact suppliers?

7. Would you have like to have had the option to check the supplier's calendars to see if they are available on your wedding day?

8. If you said yes to no.7, which suppliers would this be most helpful for? (example venue, photographer etc.)

9. What parts of the wedding website did you enjoy reading?

10. What could you suggest as an added feature for these websites that would be helpful to brides?

11. What information (if any) did you find not helpful?

12. What colours would you recommend for designing a wedding website?

13. Any other comments?

The second survey was sent to hotel wedding venues around Ireland via an email with a link to Survey Monkey. Unfortunately, I didn't get many responses from these emails. I found it very difficult to get much feedback from venues on this topic at all, when I was contacting them as an unknown.

The screenshot below shows a section of this survey:

Due to lack of feedback I decided to take a different approach and began to ask all of my friends if anybody knew anybody working in a hotel that could meet me for some research. I was very lucky to be put in contact with the wedding coordinator in the Clayton hotel in Galway. I had the opportunity to speak with her on a few occasions to get her feedback on the idea. I wanted to know how it would be received by venues and if she thought it was something that could potentially be a success. She liked the idea and thought it would be especially beneficial to couples. She advised that the best way to get the suppliers on board was to focus on three or four venues that hold weight in the market and if I managed to convince them the others would follow. We discussed tactics and opportunities to get suppliers on board such as free advertising for the first year, her opinion was that this would be well received. We also discussed the possibility of giving couple's discounts if making a booking that came from the We Do Weddings website, should the site become a success.

Aims

This website will have a large scope, not only will it be aimed at couples planning a wedding but also their families, friends and bridal parties that want to help with the

planning, offer advice or do some research for them. The website will also be a good read for people interested in reading about other people's weddings stories.

The aim of the website will be to help couples plan their wedding day by giving them an interactive website that can focus on what they want. Creating their own to-do list instead of following ones designed by others and using the calendar function. There are no websites in Ireland that offers the feature to check the calendar of a supplier before directly contacting them.

Suppliers themselves can log in to the website and to update their calendar. The only information shared will be dates when the supplier is booked, this will be done by colouring the square of that date red. This should help couples save time and disappointment when choosing suppliers.

Technologies

I used the Web Forms within the ASP.NET framework as this allowed me to use HTML mark up and C# together to create dynamic web content that is user interface (UI) driven. CSS is used to design the UI to bring consistency and flow to the website as well as adding some appealing design.

I used MySQL LocalDB to connect the website to a database where I stored user and supplier details that were dynamically called from the website.

I used JavaScript to create dynamic slideshows of wedding images on the website homepage (default.aspx). In order for the website to be accessible on mobile devices such as smart phones and tablets the webpages are Bootstrap responsive.

All of the above were developed in Visual Studio 2015

System Requirements

Requirements Specification:

Property	Measure	Reasoning
Usage	< 20 minutes to being expert	This website must be user friendly as is not focused towards technical professionals. Both users and suppliers must be able to view details and update their own content, once registered, easily using a form.
Speed	1 – 4 seconds to load a page	Most pages will have a lot of content to load

| Mobility | Various devices | The website will work on different size computers, tablets, and smart phones. |
| Storage | Months in advance | There is no limit to how far ahead suppliers can update their calendar. |

Functional requirements

Requirement 1: Supplier Update Calendar

The Supplier Update Calendar function enables the suppliers that have registered to log in and update their calendars. This function is imperative for our websites special feature. This is accomplished by creating a dynamic form where the supplier can input dates they have bookings for and when the Send Button is clicked this information is sent to the database, to the calendar table that stores the details for that supplier. Once this is done the calendar on the suppliers details page will be updated and that date will be highlighted in red to show that it is no longer available.

Use Case:
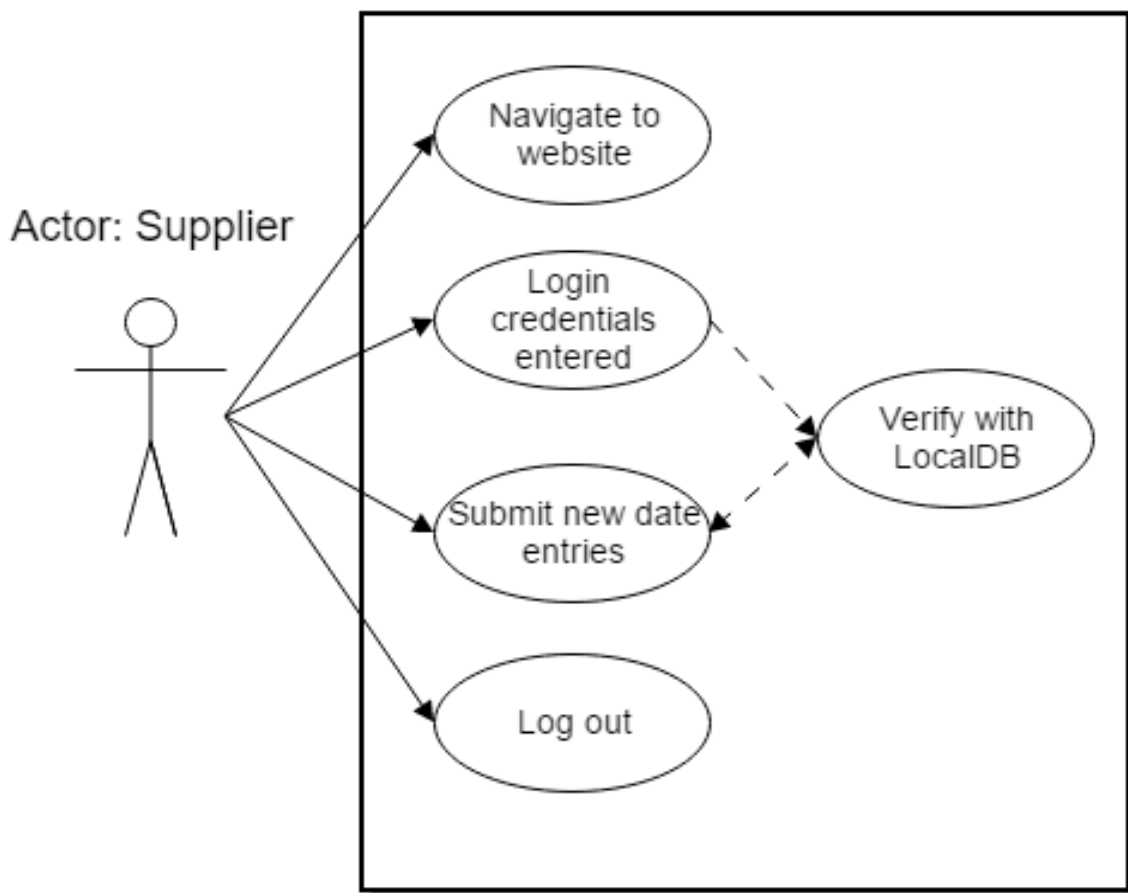
Flow Description

Precondition

The application is in initialisation mode and connected to the internet. The Supplier has registered their details successfully.

Activation

The use case starts when the supplier opens the We Do Weddings website

Main Flow

1. The supplier opens the web application
2. The supplier navigates to the log in page
3. The supplier enters their credentials and successfully logs in
4. The supplier navigates to the Supplier Updates page
5. The supplier inputs the information and sends to database
6. The database is updated
7. The supplier logs out

Alternate Flow

A1: Incorrect Credentials

1. The supplier opens the web application
2. The supplier navigates to the log in page
3. The supplier enters their credentials
4. Incorrect details error message appears
5. The supplier uses the contact form to request help to log in

Exceptional Flow

E1: Database Issue

1. The supplier opens the web application
2. The supplier navigates to the log in page
3. The supplier enters their credentials and successfully logs in
4. The supplier navigates to the Supplier Updates page
5. The supplier inputs the information and sends to the database
6. The database fails to update

Termination

The supplier user exists the web application

Post Condition

The web application continues to run online

Requirement 2: Guest View Calendar

The Guest View Calendar function enables any visitor to navigate to a supplier and view the calendar of that supplier. This is accomplished by a guest navigating to the Supplier page, choosing a supplier and clicking on either the name or image which are both links to that suppliers details page. On this page the suppliers calendar is displayed, highlighting in red the days that are booked.

Use Case:
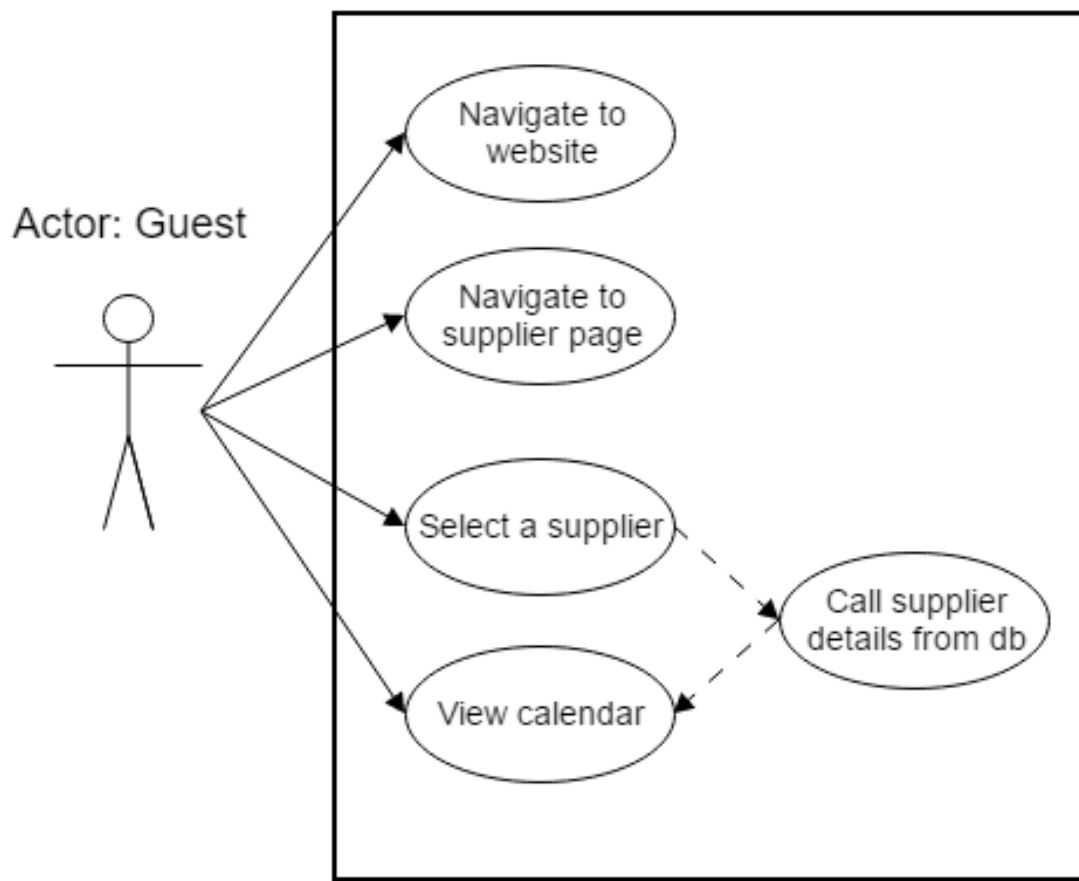
Flow Description

Precondition

The application is in initialisation mode and connected to the internet. The supplier the guest wishes to view has registered on the website and submitted their calendar details.

Activation

The use case starts when the guest opens the We Do Weddings website

Main Flow

1. The guest opens the web application

2. The guest navigates to the supplier's page

3. The guest selects a supplier

4. The suppliers' details are called from the database and displayed

5. The guest views the suppliers' calendar

Alternate Flow

A1: Link to Supplier Details page broken

(a) The guest opens the web application

(b) The guest navigates to the supplier's page

(c) The guest selects a supplier

(d) Supplier's page reloads

Exceptional Flow

E1: Database issue

(a) The guest opens the web application

(b) The guest navigates to the supplier's page

(c) The guest selects a supplier

(d) Supplier details missing from page

Termination

The guest user exists the web application

Post Condition

The web application continues to run online

Requirement 3: User Create To-Do List

The User Create To-Do List allows all registered users to the website, create their own wedding to-do list. There is a large selection of optional tasks that users can add to their to-do list and they can update this list by ticking off the tasks that they have complete as they do them.

Use Case:
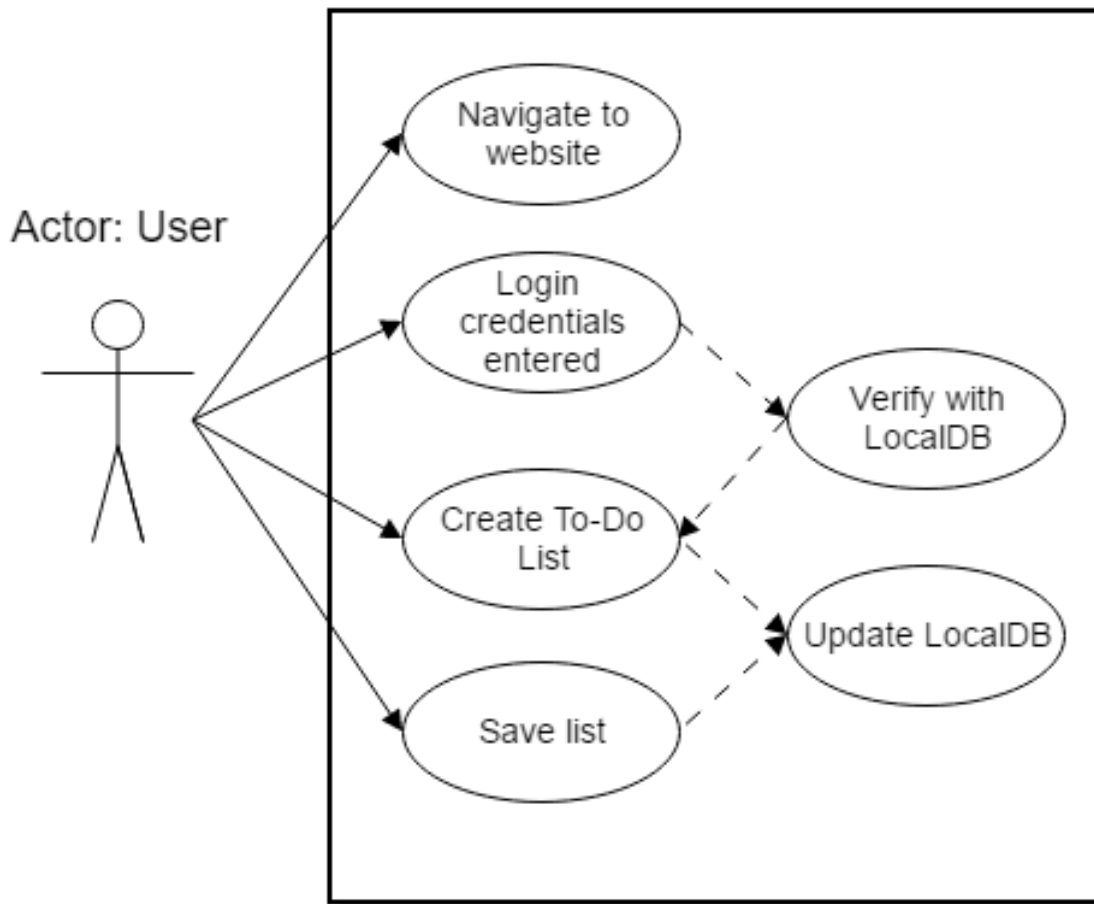
Flow Description

Precondition
The application is in initialisation mode and connected to the internet. The User has registered their details successfully.

Activation
The use case starts when the user opens the We Do Weddings website

Main Flow
    8. The user opens the web application

9. The user navigates to the log in page

10. The user enters their credentials and successfully logs in

11. The user navigates to the To-Do List page

12. The user creates list and sends to database

13. The database is updated

14. The user logs out

Alternate Flow

A1: Incorrect Credentials

6. The user opens the web application

7. The user navigates to the log in page

8. The user enters their credentials

9. Incorrect details error message appears

10. The user uses the contact form to request help to log in

Exceptional Flow

E1: Database Issue

7. The user opens the web application

8. The user navigates to the log in page

9. The user enters their credentials and successfully logs in

10. The user navigates to the To-Do List page

11. The user creates list and sends to the database

12. The database fails to update

Termination

The user exists the web application

Post Condition

The web application continues to run online

Non-Functional Requirements

Security requirement

The passwords and user id's of registered supplier's and users are encrypted for safety, through ASP.NET's strict registration and login pages' validation. No unauthorised user can update a calendar for a supplier or a to-do list for a user.

Reliability requirement

The suppliers must be able to log in and update their calendars at any time. The users must be able to access their to-do list at any time. All users must be able to view the most up to date details of all suppliers, including the calendar.

Maintainability requirement

The suppliers must be able to update their calendars without it being too cumbersome. This is achieved using a simple dynamic supplier update form that uses a connection string to the database. The planning and wedding stories pages must be regularly updated by Admin.

Extendibility requirement

The web application has the opportunity to expand the calendars to a variety of additional suppliers that service weddings.

Availability requirements

The website should always be available once the user has internet access. The database must always be available for suppliers accessing their calendar details, guests to view them and users to access their to-do lists.

Usability requirements

The website must be user friendly as this application is not designed for technical users, but all users of all ages and abilities. This application requires an easy flow so users can navigate to find the information they are looking for.

Data requirements

Data requirements for this application will come from three sources:

1. Admin (myself) on the Homepage, Planning page and some data on the Suppliers pages;
2. Guests will supply articles for the Wedding Stories page.
3. Suppliers will update and maintain their calendars.

All data will be stored on the MySQL LocalDB connected to the website.

Environmental requirements

The environmental requirements that are mandatory for this application to be developed are a suitable platform to run and a web browser that can process HTML, CSS and C#.

The environmental requirements required from a user point of view in order to use this website are internet access and a device such as a Laptop, PC, Tablet or Smart Phone.

System Architecture

They system architecture is relatively simple; the user needs to have a device with internet access to connect to the website, such as a computer tablet, laptop etc. The website is visible through web service that connects to the back end .NET. The .Net program has a connection with a local database where the connection is opened and closed as required.
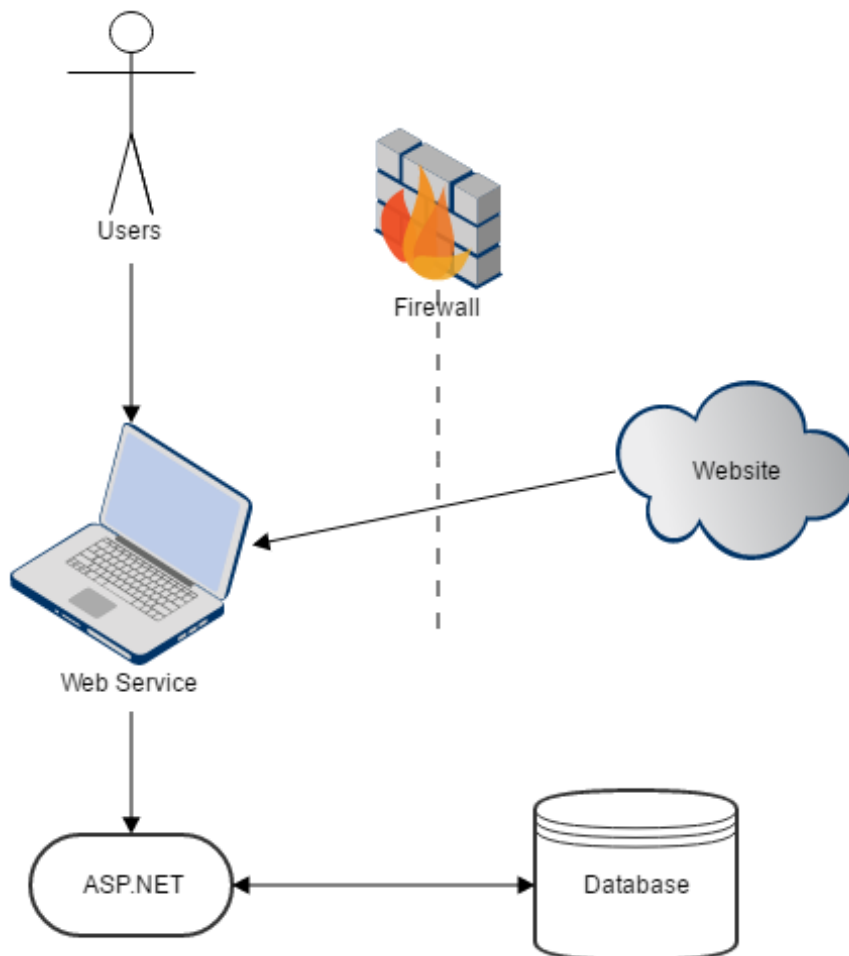
Class Diagrams

Below are a few samples of the class diagrams active in my project:
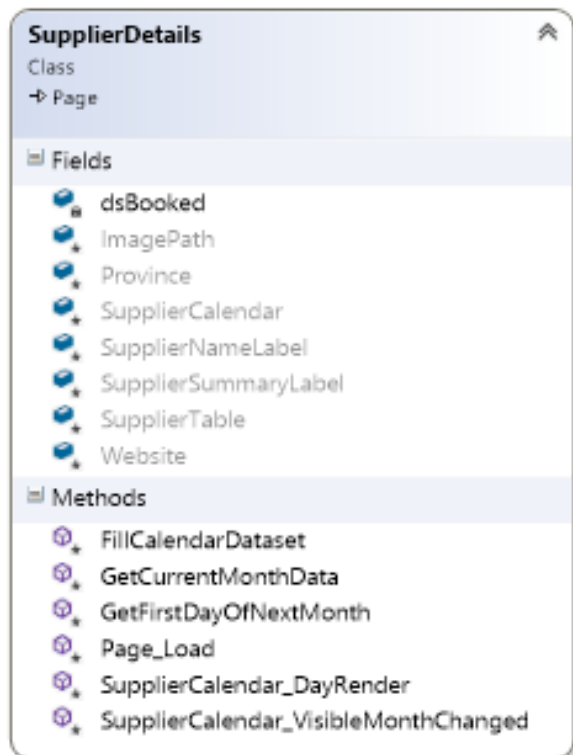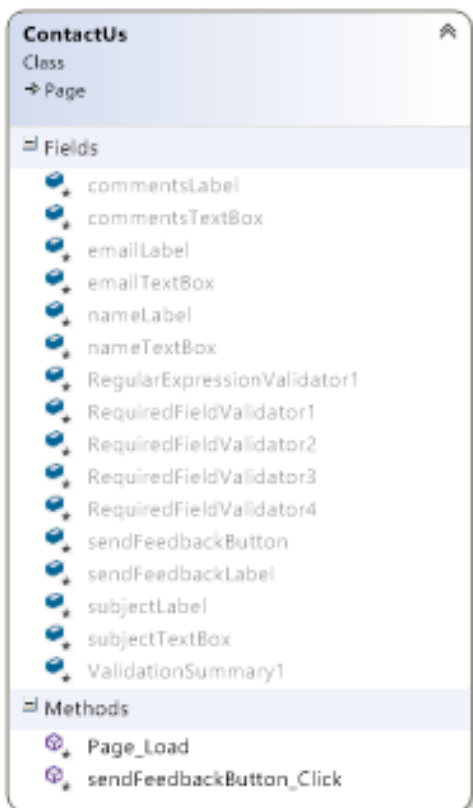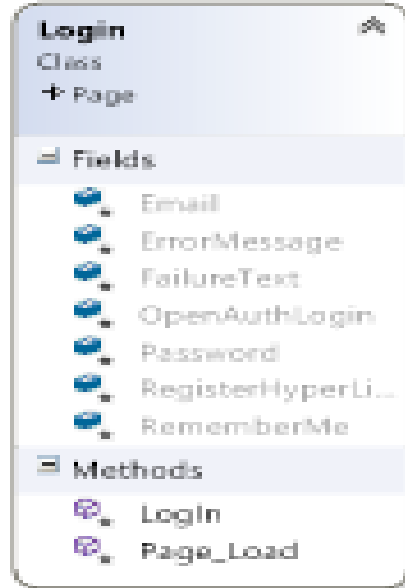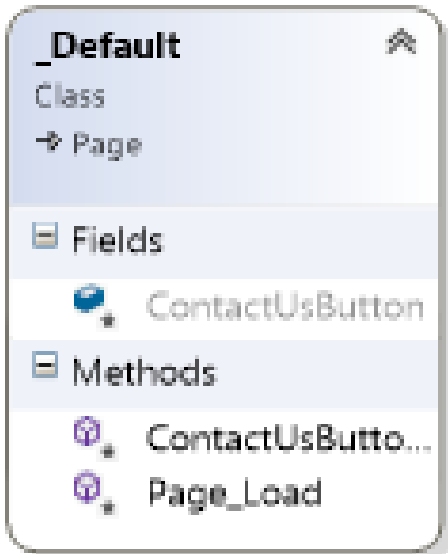
Security Architecture

The below diagram outlines the security architecture for user accounts:
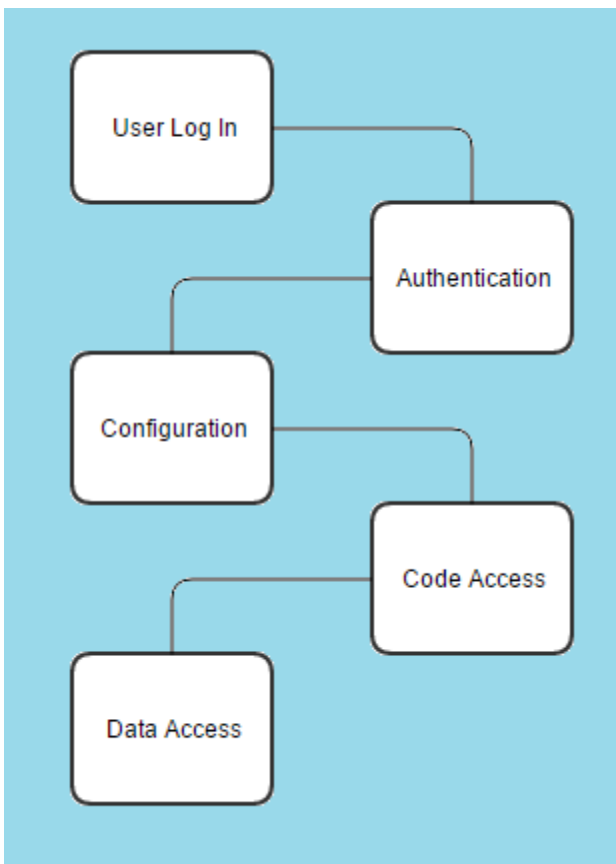
The user must enter their log in credentials, which are sent to the database for a validation check. Once confirmed a connection is opened and the data can be accessed.

I looked up the database security architecture on the Microsoft website under Developer Network. The process has two tiers, a Web Server and a Database Server. Registered users log in through a web browser. The ASP.NET web application makes the connection to the database, as outlined below:
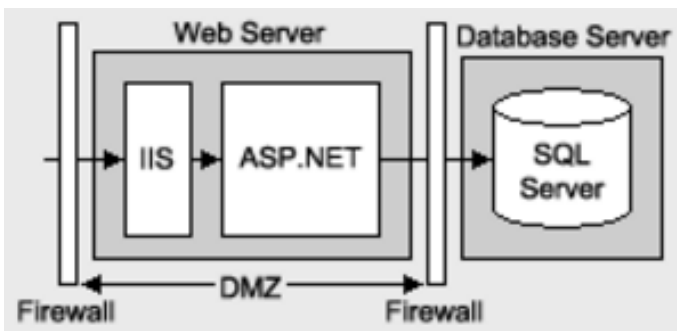
Graphical User Interface (GUI) Layout

The website has a bright, colourful and friendly feel to it. On first look I want couples to sense the excitement and fun involved in planning a wedding, not be overwhelmed by information. I have tried to accomplish this by keeping the look of the website simple but fun with bright colours, friendly fonts and plenty of images. That way it is easy to navigate but also gives inspiration to readers. The background image is a simple image of white roses, often used in wedding bouquets and taken from http://wallpapercave.com/w/h0pfjWS.

The Site.Master page enabled me to have a consistent flow throughout the website and I used a predefined bootstrap CSS to the menus – fully referenced in the CSS of the website.

The menu tabs across all pages are consistent and are outlined below.

Homepage

As this is the first page where guests will get the feel for the website, I kept it simple so that it would look appealing and user friendly.

The homepage (default.aspx) consists of a brief introduction to the website, some contact details and a link to a contact form that saves the user input to the LocalDB as well as a JavaScript gallery of images to give guests an idea of the kind of material they can find throughout the website.

Planning

This page gives some information on planning a wedding. Right from engagement to the wedding day itself, users can read articles on many different topics that offer some help and guidance. The current content ranges from tips for newly engaged couples to budget planning.
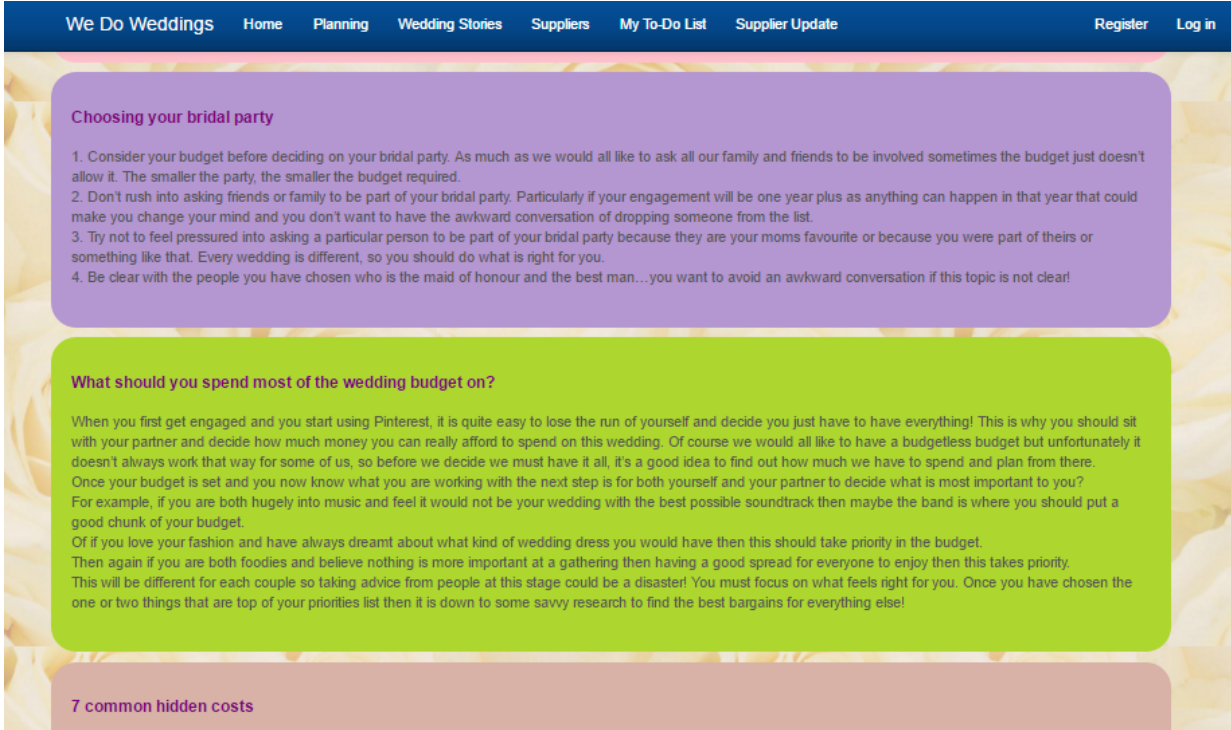
Wedding Stories

The page is dedicated to blog style entries. Visitors to the website are treated to some articles on real life weddings written by guest authors, with photographs of their wedding day included. Rather than an overload of hints and planning tips from administrators, this page brings fresh perspectives from many angles of different styles of weddings. Each guest author is asked to not only supply their details but also to offer up any advice they would give to brides-to-be. You will see details of what they enjoyed, what they found difficult, photographs that they are happy to share, suppliers they used and any other little details that made their day special to them.

The current list of articles on display here have been provided to me by some of the same people that helped with my market research, completing my survey and have been displayed with their permission.

Suppliers

This page has a comprehensive list of wedding suppliers located around Ireland. The current categories are venue, bands, photographers, videographers and hair and make-up artists. This can be extended to all types of weddings suppliers.

Users can use a dropdown list function where they select the type of supplier they are looking for and the location and the database will return a supplier that meets your criteria:

Further down the suppliers page there is a full list of suppliers that users can select by clicking on the name or image for each supplier. When that link is selected the user is taken to a new supplier details page that only lists information for that one supplier (displayed from database):

It is on this page that you can read details such as a summary of details on the supplier, where they are located, their website and their calendar. You can see in the above screenshot that this photographer is fully booked on the 13th, 14th, 21st and 26th of May.

Implementation

In this section I will highlight the main coding concepts in my web application and describe some code snippets that form important requirements for the website to work.

All of my project was developed in Visual Studio 2015 as I am familiar with this IDE and find it good to work with. The framework that I wanted to use for this project was ASP.NET and the .NET framework works perfectly in this IDE. I also find the navigation around Visual Studio very user friendly.

I decided to use ASP.NET as I had used this previously with a different project and found it very good for web design as it is UI driven and I was conscience that I wanted the website to be appealing to visitors. Unlike the last time I used ASP.NET, I selected to use the web forms template as this is designed around a drag and drop model which I thought would be helpful for the look and feel of the website. However, ASP.NET is not limited to script languages, it also works well with C# and allow the source code and HTML to be developed together.

Due to the nature of this website, I am required to store information on both users and suppliers, ASP.NET has built-in windows authentication which ensure the security of my data.

I wanted to create a dynamic slideshow of images on my homepage to give visitors a feel for the kind of content they can expect to view on the website. JavaScript was the obvious choice for this as it is a very dynamic language and can achieve a great look with a limited amount of code.

```
<!-- create the div that will contain the slideshow give location of images to display -->
<div class="Gallary">
<img src="/Content/Images/Ring.jpg" id="slide" /><br>
<script type="text/javascript">
    var slideimages = new Array()
    slideimages[0] = new Image()
    slideimages[0].src = "Content/Images/Kissing.jpg"
    slideimages[1] = new Image()
    slideimages[1].src = "Content/Images/Ring.jpg"
    slideimages[2] = new Image()
    slideimages[2].src = "Content/Images/img_CathyAndPat.jpg"
    slideimages[3] = new Image()
    slideimages[3].src = "Content/Images/Rings.jpg"
    slideimages[4] = new Image()
    slideimages[4].src = "Content/Images/Flowers.jpg"
</script>
```

```
<!-- Rotate the above images, starting at 0. When all images are displayed restart -->
<script type="text/javascript">
        var rotate = 0
        function slideit() {
            if (!document.images)
                return
            document.getElementById('slide').src = slideimages[rotate].src
            if (rotate < 4)
                rotate++
            else
                rotate = 0
            setTimeout("slideit()", 2500)
        }
        slideit()
</script>
```

I used SQL Server to manage my local database connections for the data stored in my website. I used the default connection available as it covered all my needs for this project. There are many forms on my website that require users input to be taken and stored in a database, including the registration and the contact us form. Below is an explanation of the C# code that was used to establish the connection with the database and store the information sent in the contact us form

The user will complete a form on the contact us page. Their input is stored in a textbox. Once they have entered valid values into each textbox, they click the submit button which triggers the below event:

```
protected void sendFeedbackButton_Click(object sender, EventArgs e)
{
    // Declare four variables of the type string and initialise these variables to the value entered in the textbox
    string strName = nameTextBox.Text.ToString();
    string strEmail = emailTextBox.Text.ToString();
    string strSubject = subjectTextBox.Text.ToString();
    string strComments = commentsTextBox.Text.ToString();

    // declare a new connection to the database
    SqlConnection con = new SqlConnection();
    con.ConnectionString = ConfigurationManager.ConnectionStrings["DefaultConnection"].ConnectionString;
```

Once the connection is open you send a command to the database. The database instructions are written in Structured Query Language (SQL), that is the orange code in the screenshot below, beginning with INSERT:

```
// send a command with what you want it to store and where to store it
SqlCommand cmd = new SqlCommand();
cmd.CommandText = "INSERT INTO Feedback(Name,Email,Subject,Comments)" +
    " VALUES (@Name,@Email,@Subject,@Comments)";
cmd.CommandType = CommandType.Text;
cmd.Connection = con;

// Add each new value to database as outlined below
SqlParameter UserName = new SqlParameter("@Name", SqlDbType.VarChar, 50);
UserName.Value = strName.ToString();
cmd.Parameters.Add(UserName);
SqlParameter UserEmail = new SqlParameter("@Email", SqlDbType.VarChar, 50);
UserEmail.Value = strEmail.ToString();
cmd.Parameters.Add(UserEmail);
SqlParameter UserSubject = new SqlParameter("@Subject", SqlDbType.VarChar, 100);
UserSubject.Value = strSubject.ToString();
cmd.Parameters.Add(UserSubject);
SqlParameter UserComments = new SqlParameter("@Comments", SqlDbType.VarChar, 500);
UserComments.Value = strComments.ToString();
cmd.Parameters.Add(UserComments);
```

Once you have all the information you need you open the connection, execute the query and close the connection:

```
con.Open();
int result = cmd.ExecuteNonQuery();
con.Close();
```

C# code was used throughout the project. A simple example of some C# code used in this application follows directly from the SQL example above. Once the connection to the database is closed and the details from the contact us form have been successfully saved to the database, C# is used to send a message to the user that their message has been sent successfully:

```
if (result > 0)
{
    sendFeedbackLabel.Text = "Thank you for your email, we will reply within 48 hours. - We Do Weddings Team.";
}
```

Of course there is also a sample in the first code snippet under SQL where I declared and initialised variables.

I also used C# in the calendar function on this website. I used the DayRender event to change the colour of the date in a calendar for a supplier, if that date is marked as booked. Below is the code used for this:

```
// if a date is marked in suppliers calendar, turn the date red.
protected void SupplierCalendar_DayRender(object sender, DayRenderEventArgs e)
{
    DateTime nextDate;
    if (dsBooked != null)
    {
        if (dsBooked.Tables.Count > 0)
            foreach (DataRow dr in dsBooked.Tables[0].Rows)
        {
            nextDate = (DateTime) dr ["Date"];
            if (nextDate == e.Day.Date)
            {
                e.Cell.BackColor = System.Drawing.Color.Red;
            }
        }
    }
}
```


I used HTML to design some of the page's layouts on this website, as more browsers support HTML than any other programming language. HTML can be straight forward to use but generates basic looking markups so is used with CSS to improve the visual aspects of your website. HTML was perfect for creating tables with columns and rows that you can have labels, links, textboxes etc. in. Below is an example of how I used HTML to create a table design of how to show my supplier details page. This table contains texts, labels, links and image links that are pulled from the database when a user selects a supplier from the Suppliers page:

```
<table id="SupplierTable" runat="server">
    <tr>
        <td class="supplierdetails" style="width: 364px; height: 569px;">
            <asp:Image ID="ImagePath" runat="server" ImageUrl="/Images/<%#:Item.ImagePath %>" CssClass="SupplierImage" />
        </td>
        <td class="modal-sm" style="width: 312px; height: 569px;">
            <h3>
                <asp:Label ID="SupplierNameLabel" runat="server" Text='<%# Eval("SupplierName")%>'> </asp:Label>
            </h3>
            <h3>Located in
                <asp:Label ID="Province" runat="server" Text="Province"><%# Eval("Province")%></asp:Label>
            </h3>
            <h3>
                <asp:Label ID="Website" runat="server" Text="Website"><%# Eval("Website")%></asp:Label>
            </h3>
        </td>
    </tr>
    <tr>
        <td class="SupplierSummaryClass" style="width: 500px">
            <h4><b>Supplier Summary:</b><br />
                <asp:Label ID="SupplierSummaryLabel" runat="server" Text="SupplierSummaryLabel"><%# Eval("SupplierSummaryLabel")%>
            </h4>
        </td>
    </tr>
</table>
```

I used CSS to design the look, layout and different displays of the website. CSS reduces a lot of duplicated code as you can reference the same CSS tag in many places but only have the CSS code written once. I found it an ideal way of updating multiple areas at one time which gives the website a consistent and non-messy look. Below is an example of how I used CSS to design different areas of the website at once:

```
#michelleandthomasimage3
#michelleandthomasimage2,
#michelleandthomasimage1 {
    float:left;
}
```

The float property specifies that the 3 images above should float on the page, so the text around them will fit better – much like my CSS heading and the text to describe it.

Testing

Evaluation of the website has been carried out multiple times throughout the process of developing this website. After each milestone was met, thorough testing was carried out on that millstone.

Testing scripts were developed for three categories:

1. User Acceptance Testing (UAT)
   Full testing on every aspect of the website from display to functionality.
2. Customer review
   A script was created to test how the website performs for potential customers to the website.
3. Supplier review
   A test script was created for suppliers that will be featured on the website, to test how the website performs for them as registered users.

UAT testing script

We Do Weddings Test Scripts			
Test script name:	UAT Testing		
Test script developed by:	Sharon O'Doherty	**Date:**	30/04/2016
Test script completed by:	Gavin Gaughran	**Date:**	01/05/2016
Tester's role:	Fellow 4th year student studying Computer Science		

Test ID	Page	Scenario	Expected Result	Process to complete	Actual result	Pass/Fail	Comments
1	default.aspx	Open Web Applica	Application displays default.aspx page	Run web application	Application displays default.aspx page	Pass	N/A
2	All Pages	Consistency	- Each page should display the same menu options: • We Do Weddings • Home • Planning • Wedding Stories • Supplier • My To-Do List • Supplier Update • Register • Log in with the same colours and fonts throughout - The links work - Background image of white roses - Copyright in footer	1. View menu bar 2. Click each menu tab and verify the link works and it takes you to the correct page 3. View background and footer	- Each page should display the same menu options: • We Do Weddings • Home • Planning • Wedding Stories • Supplier • My To-Do List • Supplier Update • Register • Log in with the same colours and fonts throughout - The links work - Background image of white roses - Copyright in footer	Pass	N/A
3	default.aspx	Display	• Introduction to the website, grammatically correct • Contact details with Contact Us form button • Image slideshow	1. View details in introduction 2. View contact us details 3. Verify there is an image gallery and that the images are rotating. Also that the images displayed are the same size so the gallery is professional	• Introduction to the website, grammatically correct • Contact details with Contact Us form button • Image slideshow	Pass	N/A
4	ContactUs.aspx	Contact Us Form	• On button click you are redirected to a new page • New Contact Us page displays an area for input of Name, Email, Subject and Comments.	1. Click button for Contact Us form and ensure it works 2. Verify that it takes you to a new page that displays a form for input	• On button click you are redirected to a new page • New Contact Us page displays an area for input of Name, Email, Subject and Comments.	Pass	N/A

Test ID	Page	Scenario	Expected Result	Process to complete	Actual result	Pass/Fail	Comments
5	ContactUs.aspx	Functionality	• When no name is entered and Send button is clicked an error appears asking for name • When no email is entered and Send button is clicked an error appears asking for email • When invalid email format is entered and Send button is clicked an error appears explaining format • When no subject is entered and Send button is clicked an error appears asking for subject • When no comments are entered and Send button is clicked an error appears asking for comments • When correct details are supplied and Send button is clicked, a message is displayed that details have been sent and text input areas are cleared	1. Enter no details, click send button. Verify error messages. 2. Leave only one input area blank, click send. Verify error message. 3. Repeat no.2 with new areas 4. Enter all details but put in wrong email address format, click send. Verify error message. 5. Enter correct details to the form and click the Send button. Verify the email sent message and that all the input fields have cleared.	• When no name is entered and Send button is clicked an error appears asking for name • When no email is entered and Send button is clicked an error appears asking for email • When invalid email format is entered and Send button is clicked an error appears explaining format • When no subject is entered and Send button is clicked an error appears asking for subject • When no comments are entered and Send button is clicked an error appears asking for comments • When correct details are supplied and Send button is clicked, a message is displayed that details have been sent and text input areas are cleared	Pass	N/A
6	ContactUs.aspx	Database update	New feedback form appears in database	1. Navigate to the Feedback Table in the LocalDB and verify it has been updated with feedback form	New feedback form appears in database	Pass	N/A
7	default.aspx	default.aspx	When a user selects We Do Weddings or Home from the menu, the default.aspx page is displayed	1. Click both We Do Wedding and Home page, verify they both lead you to default.aspx page	When a user selects We Do Weddings or Home from the menu, the default.aspx page is displayed	Pass	N/A
8	Planning.aspx	Display	• Users can view 4 different articles on wedding planning tips. Each article will be self contained and styled to stand out from the rest. • Users can select a button at the end of the page that will redirect them to the To-Do List page.	1. View details in Planning page, ensure visually and grammatically correct 2. Click button for To-Do List, ensure takes you to To-Do List page	• Users can view 4 different articles on wedding planning tips. Each article will be self contained and styled to stand out from the rest. • Users can select a button at the end of the page that will redirect them to the To-Do List page.	Pass	N/A
9	WeddingStories.a	Display	• Users can view 3 different articles of real weddings written by 3 different authors. • Each article will be self contained and styled to stand out from the rest. • Each article displays photographs	1. View details in Wedding Stories page, ensure visually and grammatically correct 2. Verify the images and text are styled together using CSS to make them visually appealing.	• Users can view 3 different articles of real weddings written by 3 different authors. • Each article will be self contained and styled to stand out from the rest. • Each article displays photographs	Pass	N/A

Test ID	Page	Scenario	Expected Result	Process to complete	Actual result	Pass/Fail	Comments
10	Suppliers.aspx	Display	• Users can see two dropdown menu options where they can select a supplier type and a province • There are 5 supplier categories to select • A full table of all suppliers is displayed at the end of the page with the names and images set as links to take you to a details page on that supplier.	1. Verify there are two dropdown options of Category and Province 2. Verify there are 5 supplier category images that are image buttons 3. View full table of supplier and ensure names and images are links.	• Users can see two dropdown menu options where they can select a supplier type and a province • There are 5 supplier categories to select • A full table of all suppliers is displayed at the end of the page with the names and images set as links to take you to a details page on that supplier.	Pass	N/A
11	Suppliers.aspx	Functionality	• Users can select an option from two dropdown menus of supplier type and province • Once selection is made and Submit button is clicked recommendations of suppliers are displayed in a gridview. • Once selected the 5 supplier categories lead you to new pages displaying details of those suppliers • The names and images links of each supplier take you to a details page on that supplier.	1. Verify dropdown options, make multiple selections of category and province and verify that the recommended supplier is displayed and changes to match your selections. 2. Click each supplier category type and ensure it redirects you to a page with details on that supplier type 3. Click multiple different suppliers from the main list and ensure it takes you to the correct supplier details page	• Users can select an option from two dropdown menus of supplier type and province • Once selection is made and Submit button is clicked recommendations of suppliers are displayed in a gridview. • Once selected the 5 supplier categories lead you to new pages displaying details of those suppliers • The names and images links of each supplier take you to a details page on that supplier.	Pass	N/A
12	Register.aspx	Display	• To register users should be asked to supply an email address and a password. The password must be entered twice for verification. • They should then have the option to select a register button. • Users should also be given the option to navigate to the Log In page if they already have an account.	1. navigate to register page 2. verify the options register 3. verify there is a link to login page	• To register users should be asked to supply an email address and a password. The password must be entered twice for verification. • They should then have the option to select a register button. • Users should also be given the option to navigate to the Log In page if they already have an account.	Pass	N/A
13	Register.aspx	Functionality	• When no email is entered and the register button is clicked an error appears asking for email • When invalid email format is entered and register button is clicked an error appears explaining format • When no password is entered and register button is clicked an error appears asking for password • When no password is entered in the confirmation field and register button is clicked an error appears asking for password confirmation. • When the two password fields do not match an error message will display to tell user that passwords must match. • When correct information is entered and the register button is clicked the page is redirected to home and email appears in top right corner of page	1. Enter no details, click register. Verify error messages. 2. Leave only one input area blank, click send. Verify error message. 3. Repeat no. 2 with new areas 4. Enter all details but put in wrong email address format, click send. Verify error message. 5. Enter all details but put two different words for the passwords fields and verify error message. 6. Enter all correct details and verify redirect to homepage and email address is displayed in label at top right of page.	• When no email is entered and the register button is clicked an error appears asking for email • When invalid email format is entered and register button is clicked an error appears explaining format • When no password is entered and register button is clicked an error appears asking for password • When no password is entered in the confirmation field and register button is clicked an error appears asking for password confirmation • When the two password fields do not match an error message will display to tell user that passwords must match. • When correct information is entered and the register button is clicked the page is redirected to home and email appears in top right corner of page	Pass	N/A

Test ID	Page	Scenario	Expected Result	Process to complete	Actual result	Pass/Fail	Comments
14	Register.aspx	Database update	New user account created and appears in database	1. Navigate to the AspNetUsers Table in the LocalDB and verify it has been updated with new user	New user account created and appears in database	Pass	N/A
15	LogIn.aspx	Display	• To log in users should be asked to supply an email and password. • They should have the option for their details to be remembered • Auto complete should work for email • Users should be given the option to go to register page if they do not have an account.	1. Navigate to log in page 2. Verify the options to log in 3. Verify autocomplete is working 4. Verify there is a link to register page	• To log in users should be asked to supply an email and password. • They should have the option for their details to be remembered • Auto complete should work for email • Users should be given the option to go to register page if they do not have an account.	Pass	N/A
16	LogIn.aspx	Functionality	• When no email is entered and the log in button is clicked an error appears asking for email • When invalid email format is entered and log in button is clicked an error appears explaining format • When no password is entered and register button is clicked an error appears asking for password • When correct details are entered and log in is clicked you are redirected to the homepage with the email address being displayed in label at the top right of the page.	1. Enter no details, click log in. Verify error messages. 2. Leave only email field blank, click log in. Verify error message. 3. Leave only password field blank, click log in. Verify error message. 4. Enter password and wrong email address format, click send. Verify error message. 5. Enter all correct details and verify redirect to homepage and email address is displayed in label at top right of page	• When no email is entered and the log in button is clicked an error appears asking for email • When invalid email format is entered and log in button is clicked an error appears explaining format • When no password is entered and register button is clicked an error appears asking for password • When correct details are entered and log in is clicked you are redirected to the homepage with the email address being displayed in label at the top right of the page.	Pass	N/A
17	SupplierUpdate.a	Display	• Suppliers given a form to complete to update their calendar details • Suppliers should be asked to supply a Supplier name, a registered email address and the date they want to update to booked in their calendar • They should have a submit button	1. Navigate to Supplier Update page 2. Verify there is a form and a field for suppliers to enter their name, email and date. 3. Verify there is a submit button on display	• Suppliers given a form to complete to update their calendar details • Suppliers should be asked to supply a Supplier name, a registered email address and the date they want to update to booked in their calendar • They should have a submit button	Pass	N/A
18	SupplierUpdate.a	Functionality	• When no name is entered and the update button is clicked an error appears asking for name • When no email is entered and the update button is clicked an error appears asking for email • When invalid email format is entered and update button is clicked an error appears explaining format • When no date is entered and update button is clicked an error appears asking for date • When all information entered and the update button is clicked the supplier gets a message to say that their calendar has been updated and the input fields are cleared.	1. Enter no details, click update. Verify error messages. 2. Leave only one input area blank, click update. Verify error message. 3. Repeat no. 2 with new areas 4. Enter all details but put in wrong email address format, click update. Verify error message. 5. Enter all details but put the wrong date format, click update. Verify error message..	• When no name is entered and the update button is clicked an error appears asking for name • When no email is entered and the update button is clicked an error appears asking for email • When invalid email format is entered and update button is clicked an error appears explaining format • When no date is entered and update button is clicked an error appears asking for date • Message that calendar has been updated did not appear	FAIL	Error found, research to be done to have this error fixed before 16th May

Test ID	Page	Scenario	Expected Result	Process to complete	Actual result	Pass/Fail	Comments
19	SupplierUpdate.a	Database update	New dates added to database and correct supplier is referenced	1. Navigate to the Calendar Table in the LocalDB and verify it has been updated with the new dates supplied and has the correct supplier referenced.	Details not updated in database	FAIL	Error found, research to be done to have this error fixed before 16th May
20	MyToDoList.aspx	Create to-do list	• Users have option to select from multiple options displayed as tick box selections • A save button is displayed to save their selections • When users are logged in and have already chosen and saved their options they will be displayed for them to view and update in a gridview	1. Navigate to My To-Do List page (ensure you are not logged in) 2. Select from task options by ticking the box beside desired tasks 3. Select save button and verify page changes to display a gridview with your selections	• Users have option to select from multiple options displayed as tick box selections • A save button is displayed to save their selections • When users are logged in and have already chosen and saved their options they will be displayed for them to view and update in a gridview	Pass	N/A
21	MyToDoList.aspx	Update to-do list	• Users can view their personalised to do list and details are correct as they selected them •Users can update their list by ticking a task as complete and adding comments	1. Navigate to My To-Do List page (ensure you are logged in) 2. Update your personalised list of tasks	This page is currently throwing a server err	FAIL	Error found, research to be done to have this error fixed before 16th May

Customer Test Script:

We Do Weddings Test Scripts			
Test script name:	Customer Test Script		
Test script developed by:	Sharon O'Doherty	**Date:**	30/04/2016
Test script completed by:	Michelle Murphy	**Date:**	02/05/2016
Tester's role:	Recently married, familiar with wedding websites		

Test ID	Page	Scenario	Expected Result	Process to complete	Actual result	Pass/Fail	Comments
1	Register	Find register page and register as a user	Customer easily finds register page on website and successfully registers for a new account. Once registered is redirected to homepage	1. Navigate to register page 2. Complete all required fields 3. Submit registration	Customer easily finds register page on website and successfully registers for a new account. Once registered is redirected to homepage	PASS	N/A
2	Homepage	Log out of website	Customer easily finds option to log off, selects it and successfully logs out by returning to the homepage but without their email being displayed in the top right corner	1. Navigate to Log Off button 2. Select it	Customer easily finds option to log off, selects it and successfully logs out by returning to the homepage but without their email being displayed in the top right corner	PASS	N/A
3	Log in	Find log in page and log into website as registered user	Customer easily finds log in page on website and successfully logs in, with email displayed in top right corner of homeage.	1. Navigate to log in page 2. Complete all required fields 3. Submit details	Customer easily finds log in page on website and successfully logs in, with email displayed in top right corner of homeage.	PASS	N/A
4	My To-Do List	Create a personalised to do list and save	Customer easily finds the My To-Do List page and successfully selects options for to do list and selects save. Once saved the user can view their list in a table form and update when required	1. Ensure you are not currently logged in, if you are-select log off 2. Navigate to My To-Do List page 3. Select some available options 4. Click save button	Customer easily finds the My To-Do List page and successfully selects options for to do list and selects save. Once saved the user can view their list in a table form and update when required	PASS	N/A
5	My To-Do List	Update personal to do list	Customer can navigate to their personal to do list and all options previously selected are displayed in a table like form. Customer has the option to edit list by ticking tasks as complete and adding comments	1. Ensure you are logged in 2. Navigate to My To-Do List page 3. Update your personalised list of tasks	Update of to-do list currently throwing a server error	FAIL	Error found, research to be done to have this error fixed before 16th May
6	Homepage	Visit homepage, view text and images and check if buttons are working	Customer easily finds homepage, can view text, can view rotating photograph slideshow. After clicking on the contact us button they are redirected to a new page that displays a form to contact the website	1. Navigate to homepage 2. View content on homepage 3. Select button for contact us form	Customer easily finds homepage, can view text, can view rotating photograph slideshow. After clicking on the contact us button they are redirected to a new page that displays a form to contact the website	PASS	N/A
7	Contact Us	Complete a contact us form and submit it to the website	Customer can complete each required field on contact us form and submit it without issue. A message will appear on submission that it was successful	1. Click on contact us form button on homepage 2. Complete each field in form 3. Click the send button	Customer can complete each required field on contact us form and submit it without issue. A message will appear on submission that it was successful	PASS	N/A
8	Planning	Find planning page and view content	Customer easily finds planning page and can view all content. Customer has positive feedback on visual display	1. Navigate to Planning page 2. Look over content of page 3. Provide feedback on how it looks	Customer easily finds planning page and can view all content. Customer has positive feedback on visual display	PASS	N/A
9	Wedding Stories	Find wedding stories page and view content	Customer easily finds wedding stories page and can view all content. Customer has positive feedback on visual display	1. Navigate to Wedding Stories page 2. Look over content of page 3. Provide feedback on how it looks	Customer easily finds wedding stories page and can view all content. Customer has positive feedback on visual display	PASS	N/A
10	Suppliers	Use drop down menu options to get a recommendation of a supplier	Customer easily finds suppliers page and the dropdown options for category and province. Once selections are made a table will appear with supplier details that meet their criteria	1. Navigate to Suppliers page 2. Find the two dropdown list options and make two random selections 3. Click submit button	Customer easily finds suppliers page and the dropdown options for category and province. Once selections are made a table will appear with supplier details that meet their criteria	PASS	N/A
11	Suppliers	Select a supplier from the large list of suppliers available at the end of the page and view their details	Customer easily finds suppliers page and the selection of suppliers listed. Once a selection is made the page redirects to a page displaying that suppliers details, including supplier name, image, website, where they are located, a summary of supplier details and the suppliers calendar	1. Navigate to Suppliers page 2. Select a supplier from the list of suppliers displayed at the bottom half of the page by either clicking on their name or image. 3. Review content is related to that supplier	Customer easily finds suppliers page and the selection of suppliers listed. Once a selection is made the page redirects to a page displaying that suppliers details, including supplier name, image, website, where they are located, a summary of supplier details and the suppliers calendar	PASS	N/A
12	Supplier Update	Customer attempts to update the calendar of a supplier	Customer easily finds supplier update page but is unable to submit any changes as they are not logged in as a supplier	1. Navigate to Supplier Update page 2. Attempt to complete and submit form	Customer easily finds supplier update page but is unable to submit any changes as they are not logged in as a supplier	PASS	N/A

Supplier Test Script

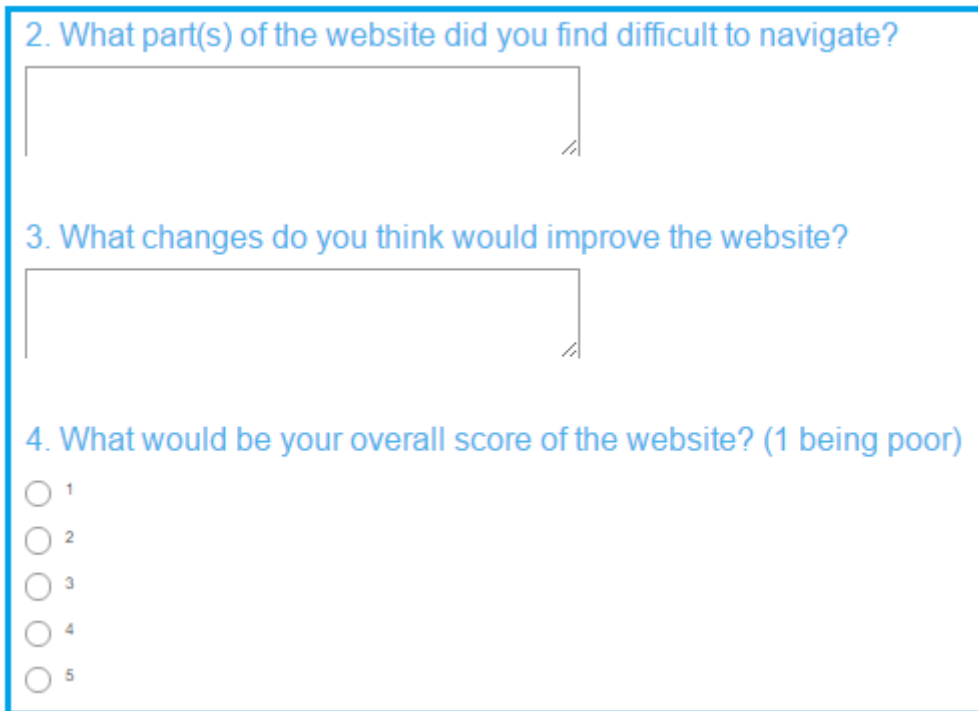| We Do Weddings Test Scripts			
Test script name:	Supplier Test Script		
Test script developed by:	Sharon O'Doherty	Date:	30/04/2016
Test script completed by:	Karina Duffy	Date:	03/05/2016
Tester's role:	Wedding Coordinator at The Clayton Hotel, Galway		

Test ID	Page	Scenario	Expected Result	Process to complete	Actual result	Pass/Fail	Comments
1	Homepage	Visit homepage, view text and images and check if buttons are working	The Supplier easily finds homepage, can view text, can view rotating photograph slideshow. After clicking on the contact us form button they are redirected to a new page that displays a form to contact the website	1. Navigate to homepage 2. View content on homepage 3. Select button for contact us form	The Supplier easily finds homepage, can view text, can view rotating photograph slideshow. After clicking on the contact us form button they are redirected to a new page that displays a form to contact the website	PASS	N/A
2	Contact Us	Complete a contact us form with a request to join as a registered supplier.	The Supplier can easily find Contact Us form on homepage. Supplier can complete each required field on contact us form and submit it without issue. A message will appear on submission that it was successful	1. Navigate to home homepage 2. Click on contact us form button 3. Complete each field in form 4. Click the send button	The Supplier can easily find Contact Us form on homepage. Supplier can complete each required field on contact us form and submit it without issue. A message will appear on submission that it was successful	PASS	N/A
3	Log in	After account has been registered, find log in page and log into website as registered user	The Supplier easily finds log in page on website and successfully logs in, with email displayed in top right corner of homepage.	1. Navigate to log in page 2. Complete all required fields 3. Submit details	The Supplier easily finds log in page on website and successfully logs in, with email displayed in top right corner of homepage.	PASS	N/A
4	Homepage	Log out of website	The Supplier easily finds option to log off, selects it and successfully logs out by returning to the homepage but without their email being displayed in the top right corner	1. Navigate to Log Off button 2. Select it	The Supplier easily finds option to log off, selects it and successfully logs out by returning to the homepage but without their email being displayed in the top right corner	PASS	N/A
5	Suppliers	Use drop down menu options to select the options that apply to you	The Supplier easily finds suppliers page and the dropdown options for category and province. Once selections are made a table appears with the suppliers details	1. Navigate to Suppliers page 2. Find the two dropdown list options and make selections 3. Click submit button	The Supplier easily finds suppliers page and the dropdown options for category and province. Once selections are made a table appears with the suppliers details	PASS	N/A
6	Suppliers	Select your supplier name from the large list of suppliers available at the end of the page and review details	The Supplier easily finds suppliers page and the list of suppliers. They select their page from the list and the page redirects to a new page which displays their details, including supplier name, image, website, where they are located, a summary of details and their calendar	1. Navigate to Suppliers page 2. Select themselves from the list at the bottom half of the page by either clicking on their name or image. 3. Review content is displayed and correct	The Supplier easily finds suppliers page and the list of suppliers. They select their page from the list and the page redirects to a new page which displays their details, including supplier name, image, website, where they are located, a summary of details and their calendar	PASS	N/A
7	Supplier Update	Update their calendar with new dates that they have booked out	The Supplier can easily find the Supplier Update page. Their details are accepted and they get a message displayed when dates are added to their calendar. They can view this update in their Supplier Details page	1. Navigate to Supplier Update page 2. Complete each required field 3. Click the update button 4. Navigate to Supplier Details page by selecting your Supplier name from the Suppliers page. Verify your calendar has been updated	Supplier can complete the form to update their calendar but currently the date is not being saved in the suppliers calendar table in the database	FAIL	Error found, research to be done to have this error fixed before 16th May

Evaluation

The main part of my project evaluation was writing detailed test scripts that would be completed by 3 different people, with varying experience and knowledge. These are detailed above, under testing. These scripts allowed me to test if the input beings submitted through the website were being submitted and saved to the database. Any errors found were highlighted with a FAIL result and were used to do more research and coding on fixing these issues.

Evaluation took place throughout the entire process of developing this web application as I continued to run and test each step as it was completed.

I also developed a survey asking for general feedback on the website which I gave to my three testers to complete. Below is a sample of part of the survey, which was developed in survey monkey:

2. What part(s) of the website did you find difficult to navigate?

3. What changes do you think would improve the website?

4. What would be your overall score of the website? (1 being poor)

○ 1
○ 2
○ 3
○ 4
○ 5

The feedback was mainly positive but also gave me a few ideas. Mainly on design and how to use CSS to improve the look of the website, for example, I was advised to use a background image to add some texture to the website as the homepage doesn't contain much information a background image would complete the simplistic yet professional look.

I learned that the calendar was everyone's favourite section of the website and all three testers were happy with how it was displayed. The feedback assured me that the website is easy to navigate and the only issues that people came across was choosing a password that fit the strict criteria when creating an account. Although this can be a

little frustrating while choosing a password I do think it is a necessary part of the website due to the nature of information stored. This is something I decided to keep I would rather have enough security that it is a little frustrating than take any risks.

Conclusion

I have learned a lot from the experience of developing his project. As I am not a very confident backend coder, I thought developing a website would be the best option for me as this is a skill I can use in the future. I found the development very challenging and there were many weeks of research involved. However, I feel my confidence has grown in both web development and SQL.

I am extremely happy with the finished product of my website and feel that it has the potential to be very successful, as it is based on an idea where I found a gap in the market and confirmed this with market research.

We Do Weddings takes the popular aspects from currently available websites, but builds on them. It has all the information needs that you would expect but some super added features in the calendar and the personalised to-do list. This is successful in making the website a personal experience for each visitor. This will encourage them to return, not only throughout the planning of their own website but long after to read the stories of other weddings.

Further development

I do feel this website has great potential and could become very popular. With more resources I would like to add other types of suppliers, such as bridal shops, bakeries, florists etc. and have them all share calendars. The plan would be that this website would be a one stop shop for all your weddings suppliers.
My contact in the Clayton Hotel was happy to provide me with the names of the booking systems the hotels use to integrate with websites like Booking.com. Integrating the booking system software with We Do Weddings is something I will definitely be looking into in future development. I have gained a contact in a software development company, he is the integration manager and has agreed to advise me on the best way forward for this website.

Appendix 1

Project Proposal

Objective

To develop a website that helps couples plan their wedding day. The website will give various types of information, such as:

- Lists of venues, bands, photographers, videographers, hairdressers and make-up artists to contact and book;
- A blog section that will tell the story of wedding days, each written by guest brides or grooms;
- Planning tips to make the process as smooth as possible;
- General wedding advice.

The function that will set this website apart from the rest is the calendar function. Suppliers, such as venues, can register with the website and share their calendar bookings. The only information shared will be dates when the venue (or other) is booked and when it is available, this is done by colouring the date in red. This will give visitors to the website the opportunity to view if a desirable supplier is available on their wedding date without the hassle of having to directly contact them first.

There is currently no website that offers this feature, which I believe would be very popular. In my own experience I have spent quite some time researching venues, finding one that is perfect for the wedding day I envisage but on contacting them find out that they already have a booking for that weekend. This can be a very disappointing and time consuming task!

This website will cut a huge amount of time (and disappointment) from the initial wedding planning and give couples the chance to secure their booking much faster than they could do before.

Scope

This website will have a large scope, not only will it be aimed at couples planning a wedding but also their family, friends, bridal party members that want to help out, offer advice or do some research for them (whether they like it or not!)

The website will also be a good read for people interested in others weddings stories. The aim of this website is to help with the wedding planning and booking processes and try to elevate some pressure from the couple by making the process as pain free as possible.

Background

This website idea was brought on by my own frustration at trying to book a venue for my wedding. If you wish to have a wedding less than a year from your engagement, it can be quite difficult in finding a venue that has available weekends, particularly in the summer months. This leads to a lot of frustration and disappointment which can take from your initial excitement and celebrations of your engagement. Of course the first question people ask after your engagement is when you are going to get married but if you don't have a venue booked it can be near impossible to answer this question. Personally, when I got engaged we chose a date which would have been 11 months away. This date was in August and although we were aware that some venues would already be booked we were shocked to find that we were struggling to find any reasonable venue with availability. As we were both busy with work and college etc. we didn't have the time to spend weeks and weeks researching (after approximately 30 venue rejections) we decided to change our date to six months later, in a winter month which was less popular.

If there was an option for us to go to a website and find out exactly what venues were available to us during August this could have prevented us from having to change the date, but no such option exists.

My hope for this website is to help with the early preparations, making the process a little easier for excited and overwhelmed couples.

Technical Approach

The website will be developed in Visual Studio using ASP.NET, C# and HTML. Design and user ability will be developed using CSS. The website will take input from users and store this in multiple tables in an SQL server database to cover administrators, user and supplier log in details, calendars, feedback etc.

I will be gathering information from multiple wedding websites in Ireland as to what kind of information will be expected on this website as well as the calendar function.

I will also be using JavaScript to create responsive dynamic slideshows of wedding images.

Project Plan

Task #	Task Name	Duration in days	Start	Finish	Predecessors (Task Number(s))
	Documentation				
1	Begin Project Journal	267	01/09/2015	25/05/2016	
2	Project Idea	19	01/09/2015	20/09/2015	1
3	Project Proposal	17	15/09/2015	02/10/2015	1,2
4	Research current irish wedding websites	57	10/09/2015	06/11/2015	1,2
5	Requirements Specification Document	35	02/10/2015	06/11/2015	1, 2, 3
6	Project Analysis & Design	28	06/11/2015	04/12/2015	1,2,3,4
	Technical				
7	Begin coding a website	32	05/10/2015	06/11/2015	1,2,3,4,5
8	Create data for venues	14	06/11/2015	20/11/2015	1,2,3,4,5,6,7
9	Create databases for website	39	06/11/2015	15/12/2015	1,2,3,4,5,6,7,8
10	Write guest blogs	18	15/12/2015	02/01/2016	1,2,3,4,5,6,7,8,9
11	Begin designing GUI	35	02/01/2016	06/02/2016	1,2,3,4,5,6,7,8,9,10
12	Mid-Point presentation	0	06/02/2015	06/02/2015	1,2,3,4,5,6,7,8,9,10,11
13	Make changes based on presentation	21	06/02/2016	27/02/2016	1,2,3,4,5,6,7,8,9,10,11,12
14	Fix minor bugs	28	27/02/2016	26/03/2016	7,8,9,10,11,12,13
15	Gather images	14	26/03/2016	09/04/2016	0
16	Gather wedding information	10	09/04/2016	19/04/2016	0
17	Write test scripts	3	19/04/2016	22/04/2016	7,8,9,10,11,12,13,14
18	Start testing	8	22/04/2016	30/04/2016	17
19	Work on bugs found in testing	5	01/05/2016	06/05/2016	18
20	Final Cleanup	8	03/05/2016	11/05/2016	7,8,9,10,11,12,13,14,17,18,19
21	Submit final code and documentation	0	11/05/2016	11/05/2016	7,8,9,10,11,12,13,14,17,18,19,20
22	Project Presentation	2	18/05/2016	20/05/2016	21
23	Project Showcase	0	25/05/2016	25/05/2016	22

Evaluation

Evaluation and testing of the website will be carried out multiple times throughout the process. After each milestone is met, thorough testing will be carried out on that milestone.

The final website will be tested in multiple ways:

1. Peer review
2. Testing scripts will be created to cover all suppliers to ensure the calendars are displaying correct information
3. Testing scripts will also cover log in information and privacy for users.

Project Tutor

My project tutor is Dr. Paul Hayes. I have met with Paul a few times during the planning phase of this project to get his opinion and advise. Dr. Hayes to happy to keep most of our communication via email due to heavy work and college workloads, however, I will endeavour to meet with him every couple of months.

Appendix 2

Analysis and Design Spec

Introduction

The Product Design Specification document documents and tracks the necessary information required to effectively define architecture and system design in order to keep the project on track for development. The Product Design Specification document is created during the Planning Phase of the project.

General Overview and Design Guidelines/Approach

This section describes the principles and strategies to be used as guidelines when designing and implementing the system.

Assumptions

- Users can register details to create an account in the application;
- Users do not need to sign in to view information on the application;
- Suppliers must contact me directly in order to be a registered supplier on the website;
- Registered suppliers will only be required to login when updating their respective calendars.

Constraints

- Each Supplier can only register one account;
- The application does not integrate with supplier's databases; calendar updates must be done manually through the We Do Weddings website.

Standards

The website will follow best practices for web standards.

Architecture Design

Below is a very high level of the basic architecture of an application. The User (Actor) accesses the application via a Web Server which is connected to a backend database.
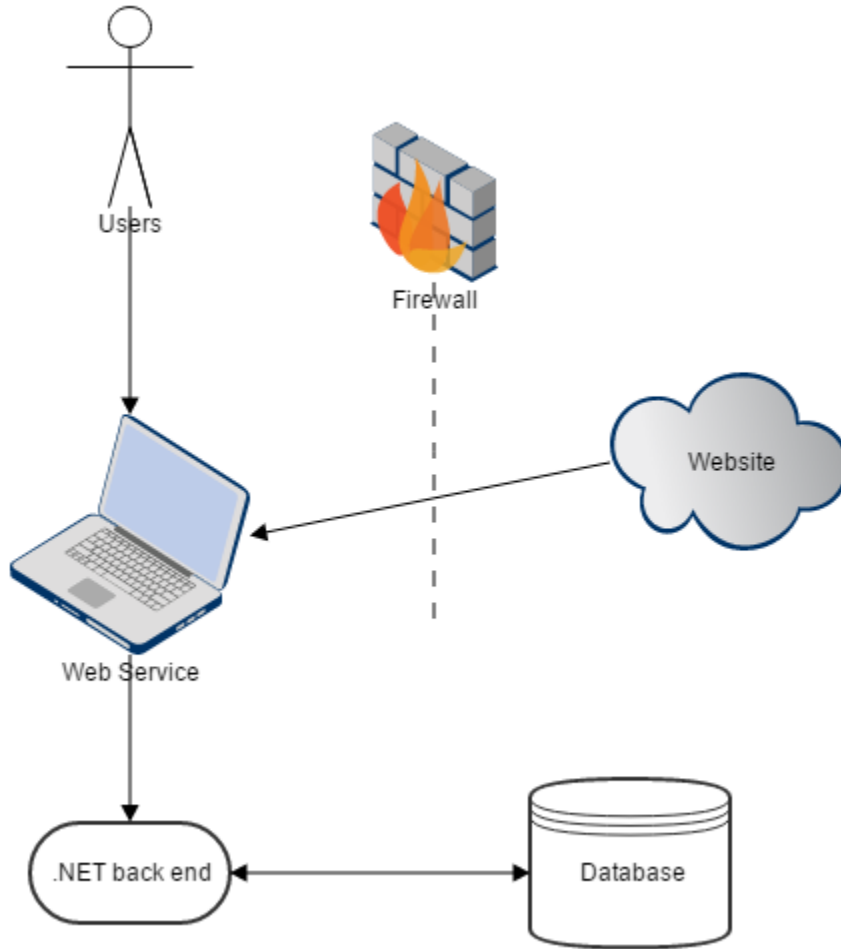
Logical View

Class Diagram

User		Application		Database
- Username		- GUI		- Usernames
- Password				- Passwords
+ LogIn()		+ Retrieve()		+ Save()
+ LogOut()		+ Send()		+ Encrypt()
+ Update()		+ Verify()		
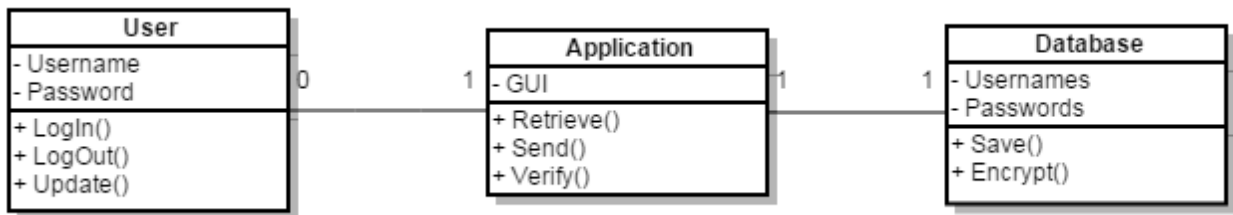
Sequence Diagram
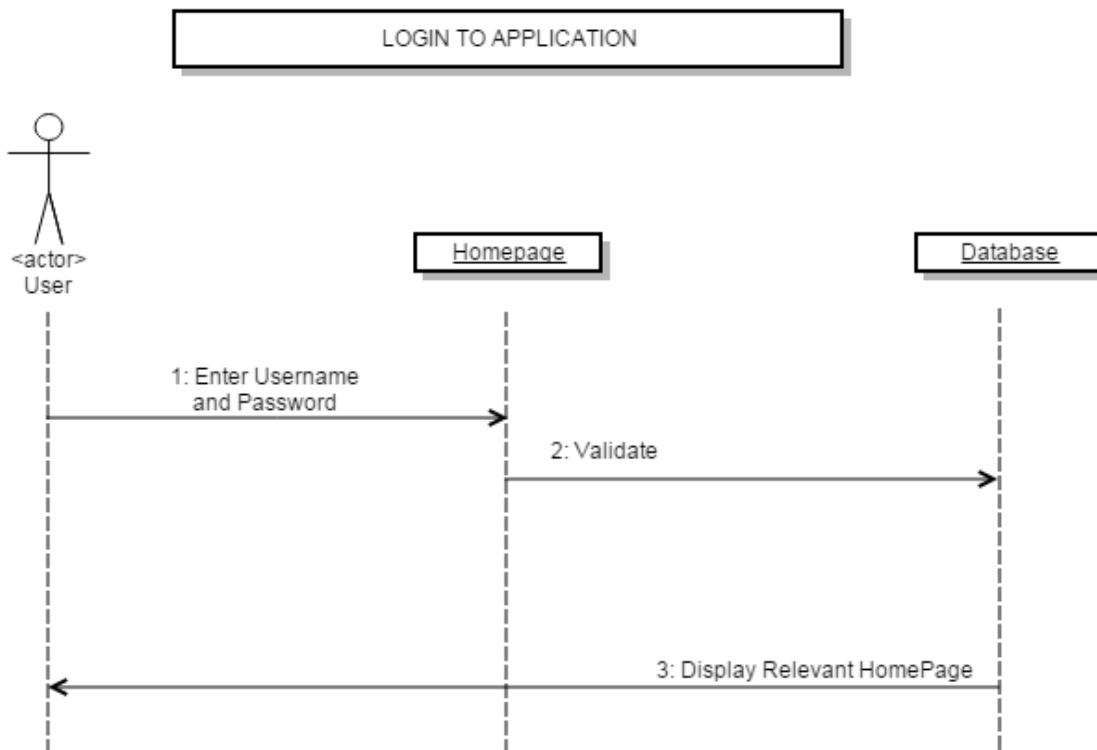
Security Architecture

This website will be developed in Visual Studio with C# and ASP.NET, all measures available will be utilized, including data validation and authentication.

Graphical User Interface (GUI)

Below is the plan for the GUI, details may change during development but this will be the basic layout of 3 of the website pages: Homepage, Planning and Venues.
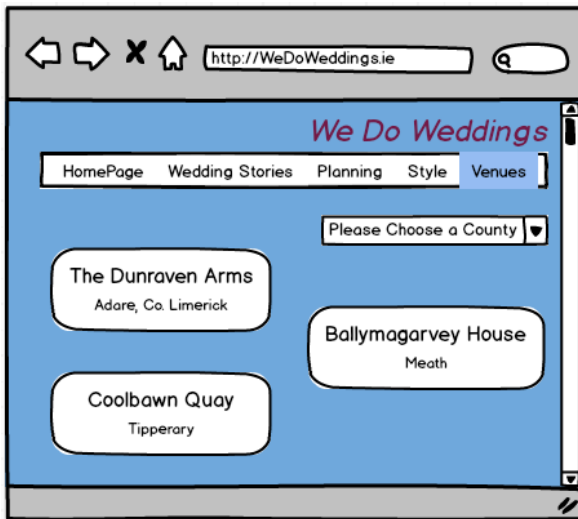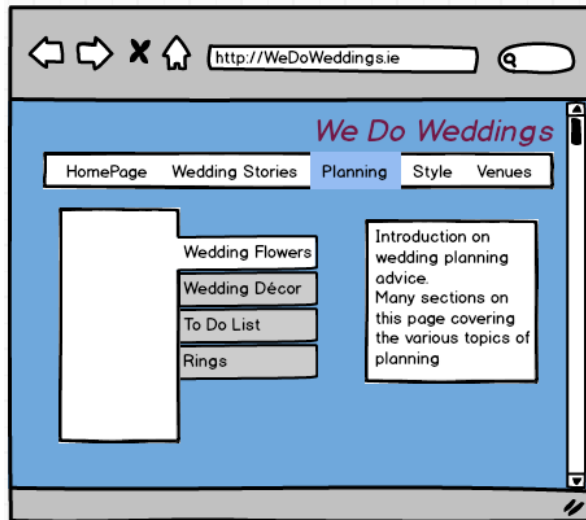
System Design

Venue Login Use-Case
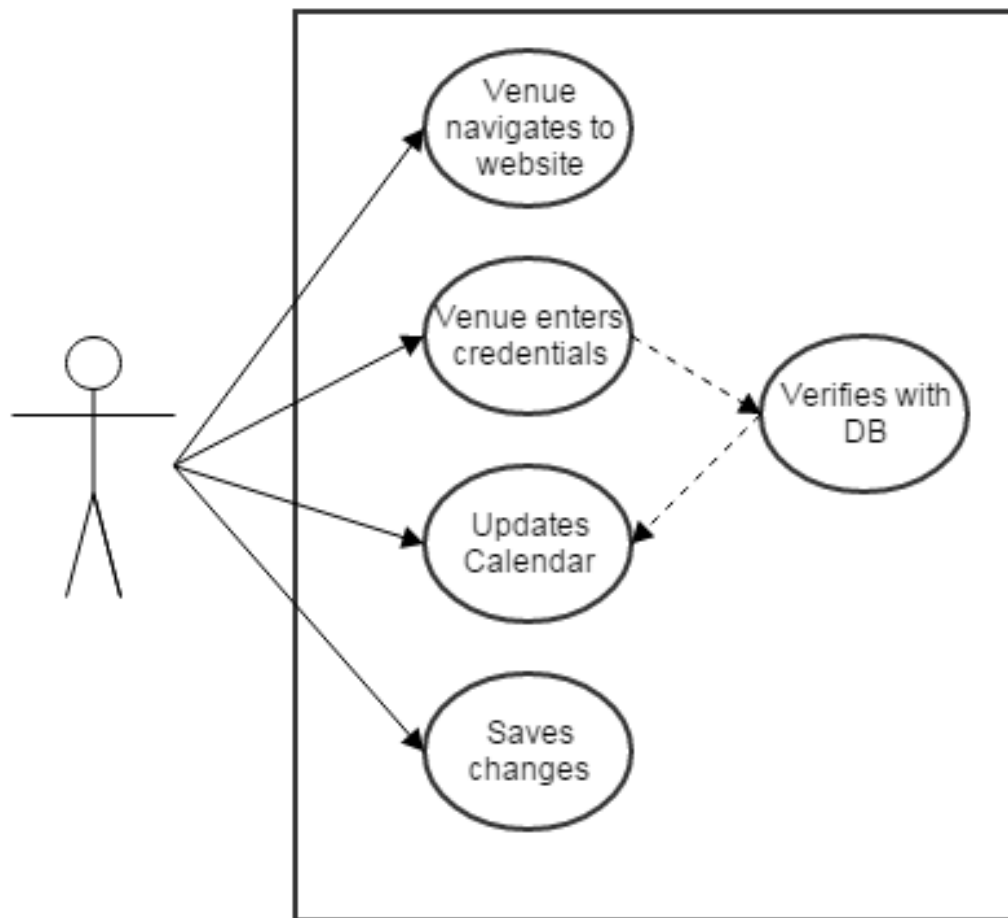
Database Design

Below is sample of four tables created in the database. The User table will store the details of the all registered users and suppliers that have registered to share their calendars on We Do Weddings website. The Venues table will store the calendar details of the venues. Bands will store the calendar details of the bands and photographers will store the calendar details of the photographers registered. There is scope for this to expand to other services but the below will be the 4 main DB tables.
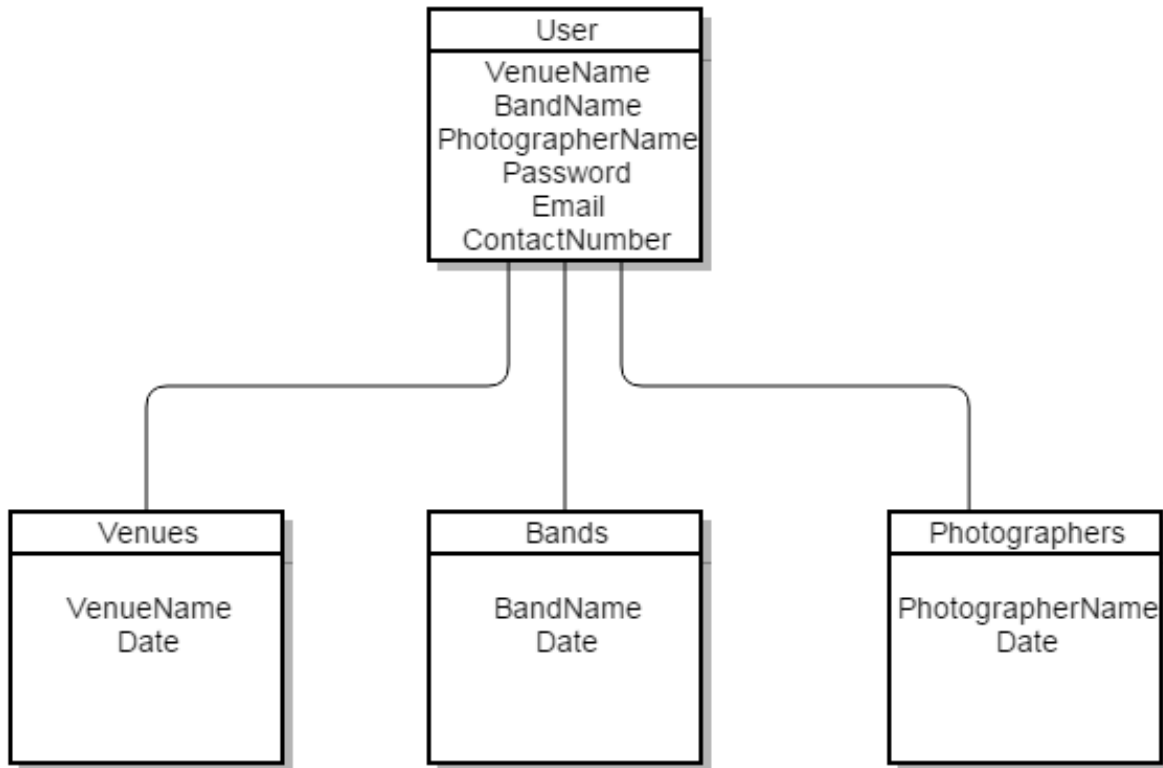
Appendix 3

Monthly Journals

Introduction

My name is Sharon O'Doherty, I am 31 years of age and very recently engaged. My initial worry for this project is getting distracted with wedding plans and not being focused enough to give this all the time it needs!

I am not great with coming up with ideas, hence I had no idea for a project when going into my first class with Eamon Nolan during which he said "After three years you should really have an idea by now". This is when panic really set in because I am not a coder. I choose the BIS route as I find the programming modules difficult but always enjoy the business   modules.
I work for a software development company but am part of the Quality team so do not get much exposure to the development side of the organisation. Although I did spend some time working in a BA role in the company my main focus was on testing and requirements. My current day revolves around audits of policies, procedures and processes. Very document heavy and standard driven.

Eamon has advised us all to keep a journal of our project work as this could earn us 5% but also help us with thought processes along the way. I think it will also be a good distraction when I am bogged down on something that I am finding difficult. I don't think I will be writing in this everyday what with a busy job, two other modules and a wedding to plan but I hope to update it as much as possible (at least once a week) and think it will be a good way to look back on my progress.

23/09/15

My fiancé and I made the big decision to push our wedding out by 6 months as it was too much pressure trying to plan it for next summer, there is no way I could balance work, college and wedding planning in one year. Now that we have done that I feel a weight has been lifted, I have a few things to look into and book (as they need to be booked far in advance) but after that I can switch off the wedding mind and focus on college for the next eight months.

Today I have been wracking my brain in search of project ideas again. I have considered building on last year's asp.net project which was a hairdressing salon website on which you could log in, buy products and make your own appointments. Although it would be nice to work on something that already has some work done to it, I don't see it being of much benefit to me.

During lunch, I found myself following up on emails to possible wedding venues. I am getting frustrated at how long it can take some venues to reply with their availability, I

want this task ticked off my list so I don't have to think about it anymore. We have only been engaged three weeks and already I have fallen in love with venues from their websites only to be told that they are not available on my dates. I was having a conversation with my colleague about how it would be much easier if this information was readily available so you would only spend time looking at venues that you could book. Then I thought maybe I could try to create this for my project.

Currently I am not sure if I will be capable of pulling it off but what I would love to achieve is a website that gets all venues, bands and photographers to sign up and share their calendars. I chose those three topics as they are the ones that people usually book first. On this website couples could:

1. Put in the date they want to get married and see a list of venues, bands and photographers that have availability on that date.
2. Put in the name of a venue, band or photographer that they like and check their availability

So this is currently the plan, I need to put some information together in an email to send to a lecturer and get their opinion on the idea. Fingers crossed!

24/09/15

So I sent my idea to Eamon and Eugene last night and just received an email from Eamon saying he thinks it's a runner. Immediate panic has set in as now I am thinking - where do I even start! As I have mentioned before I am not the best coder so I'm trying to stop myself thinking about all the things I have no idea how to do and try to start with building a basic website.
I have just looked at the project proposal template in Moodle and realise that they are looking for a lot of the technical specifics that I don't know yet! I'm writing this on my lunch break in work, I have class tonight so going to have to do a few hours' research tomorrow night in order to begin completing my project proposal as I have to have something to show by the 29th.

I'm currently feeling relieved that I finally thought of an idea that the lecturers approve of but also overwhelmed with the thought that I'm not sure I can pull it off!

25/09/15

I started the proposal today, drew down the template from Moodle and put in what I could off the top of my head. The first couple of headings are easy enough as they are to do with how I came up with the idea and what the background is. I have managed to finish 3 pages tonight, I plan to do a mock-up of the website and a project plan before class on Tuesday so I can show them what I have done and see if I can get any feedback.

30/09/15

Well that weekend was much busier than I expected, I had visitors from Friday to Monday evening so didn't get a lot done! I just about managed to get the project plan done, using a template from work. I am sure there will be other tasks that come up in the next few months that I have not thought of to put in the plan but I think I have designed it well enough to allow for that.

I have decided not to include a mock-up because I honestly have no idea what the finished website will look like! I think it would be wiser to leave this until closer to the end so there is no point detailing the look of a website now that is unlikely to be anything similar.

02/10/15

I have spent today reading over my proposal, beefing up the technical sections now that I have had some time to think about it. I am going to do the website in Visual Studio using ASP.NET, HTLM, C# and CSS. I have added as much detail as I can to the proposal so after one last reread tonight, I will upload. Hopefully it's enough!

09/10/15

After uploading my proposal, I didn't get much time to come back to the project again this week as work has been really busy I wanted to dedicate a few hours to it tonight as I have my mother and sisters visiting for the weekend.

I spent most of tonight researching wedding websites, seeing what is out there and what ideas I could do (hopefully better) than what is available. I've just written a few notes by hand of a basic wireframe. It will be laid out as:

- Homepage (basic information on who I am, what I do and how I want to help)
- Wedding Stories page (real life stories and photographs from people's weddings)
- Planning advice (I'll give timelines on what should be done when)
- Wedding Fashion (Links to bridal shops, photographs etc.)
- Wedding decorations (décor ideas and links)
- Venues (when you can view, check calendars and contact the venue)

17/10/15

I have finally started coding! Tonight I created a project in ASP.NET and did a little playing around with views etc. Not much but it's a start.

24/10/15

Today I started the Technical Specification, a lot of information is required in this so I have started with what I know I want to do and will hopefully fill in the blanks of the next couple of weeks.

31/10/15

So I've made the decision today that my Saturdays need to be solely focused on this project. Between other classes and work I am really not getting enough time during the week to get any real work done on this. I know there will be Saturdays when I have other stuff on but hopefully I can dedicate most Saturdays to this massive project!

I spent a few hours today working on the Technical Specification, I have filled in some more information but not enough to be fully happy with. I am going to arrange a meeting with my project supervisor for next week and hopefully get some advice on moving forward with this.

04/11/15

This week is turning out to be a disaster! We are going through such a busy period in work (ISO Audit) I'm not only working late on non-college days but missing lectures! My technical spec is due this Friday so trying to get it complete. I won't have time to meet my supervisor, hopefully I can get to that next week when work calms down a bit so for now I'm just completing this spec as best I can.

07/11/15

It was a hectic week but I finally got the technical specification complete and submitted last night! It was a case or working until at least 8 but staying in the office until 10 or 11 each night to spend a few hours on the spec but thankfully it is now submitted so I can move on to the next step. Most of this weekend is going to have to be focused on other subjects but I'll hopefully get moving on more research for the project next week as our audit in work is finally over so should be able to get back to a normal schedule.

17/11/15

As predicted most of my time was taken up with other subjects for the last week but today I am starting to look into the Project Analysis and Design Document. This document will have a lot of diagrams such as class diagrams and use cases. I am going to spend a couple of days studying class diagrams again as has been a while since I have done one and want to get it right!

22/11/15

I've started to make good headway with the Project Analysis and Design Document. I have expanded on my Use Cases from the technical spec and started the class diagrams. I am looking into some security for the website because although there won't

be any personal details stored, the venues will want assurance that nobody can alter their   calendar.

I also spent some time this weekend researching the kind of articles that are popular on wedding websites, the kind of tips that people are finding useful. This is the kind of information I will put on We Do Weddings as need to make sure the content is relevant.

28/11/15

I will be spending a most of this weekend on an assignment from another subject but hope to also get my design document complete.

29/11/15

The research in the other assignment took a lot longer than expected so although I'm around 60% complete on the Project Analysis and Design Document I will need to spend some more time on this over the week to get it complete before next Friday. Currently I am happy with my use cases and mostly with my class diagrams, I now need to include diagrams from other areas of the project…I am meeting with my supervisor on Thursday so hopefully he can review and give some feedback on it before its uploaded Friday night.

02/12/15

This evening I spent quite some time looking over old design documents from previous projects and reviewing notes from the past module of Object Oriented Software Engineering. Class diagrams have never been my strong point! I've decided to go with a class diagram, use case, sequence diagram and a mock-up of the GUI in the Project Analysis and Design Document. As it has been a while since I have done the Class diagram or a sequence diagram I have spent most of tonight looking into these two diagrams. I think I am happy enough with the output for now but very aware that these could change as I come closer to the end of this project.

04/12/15

Finally finished the Project Analysis and Design Document! As I was saying on Wednesday a lot of this could change as I try things out in this project but for now I am happy with this document and have uploaded it.

13/12/15

I spent a lot of today looking over ASP.Net tutorials that I found useful when doing projects in the past. I am hoping that I should get the design of the website complete by the end of January, with the database and various logins working. I then have a few weeks in February to work on some of the more complex requirements before the mid-point presentation! Today I have focused more on the plan of the website design, how

many pages I will have, what information will go where and also which pages will be interactive and which will be information based only.

16/12/15

As we approach into Christmas I aware that no matter how great my intentions are I will no doubt get less time to focus on studies with all the festivities. Also with exams coming up after Christmas I need to start focus on studying for them. After Sunday I will be away for a few weeks, I will have my laptop with me but due to how busy these few weeks will be I hope to get a good chunk of work done on Sunday so can then enjoy the break – that I badly need!

03/01/16

I have been pretty unwell over the Christmas period so there hasn't been a lot of work done. Plus, my laptop has started to act up on me and so I thought I better replace it before I lose some of my work. I'm still not feeling very well but feel I did some good by installing software on the new laptop that I will need for my project such as Visual Studios. Which takes so long to install!!! I feel I now have a lot of what I need ready to really start coding. Exams are starting soon though so I have to put this on hold for a while but plan to get right back to it once the exams are over.

15/01/15

The last few weeks have been anything but ideal. Instead of getting better I got much sicker so the exams were very difficult to get through. I had my letter from the doctor to say I couldn't sit my exams but thankfully I managed to get through them.

As I need a lot of content for my website and I want to ensure I am not infringing on any copyright, I have asked some of my married friends and family if I can use some of their wedding photographs for the website and asked them for the information I will require to ensure I have given credit to photographers who took the photographs. One of the main points of the website will be to see blogs and stories from real wedding so I am hoping I can get help on that front from my family and friends who will share their photographs, stories and memories from their wedding day. I've sent out requests to many people today so fingers crossed that I get a response.

I also created a few surveys over the last few weeks, I need to get a lot more feedback on the idea and how it is seen by other people. One was aimed at couples either planning to get married soon or recently married. The other was aimed at venues. Hopefully I will get some a lot of information back soon.

20/01/16

Thank fully I have managed to get some stories and photographs back from family and friends, I think these will add some depth to the website and people will find them interesting to read. I found myself that looking over other people's memories and photographs it helps to give an idea of what you want and don't want at your own wedding. I also had 11 responses to my survey aimed at couples and thankfully it was very positive. They seem to really like the idea. Unfortunately, I haven't heard back from any of the hotels but I'm hoping there is still time!

I spend some time today on the homepage, removing a lot of information I had previously put there with the view of making it more simple and easy on the eye. Now it will just be in introduction and a gallery of some of the best photographs on the website. Having a little difficulty getting the gallery to do what I want it to but I will have to put that on hold while I start to prepare the Technical Report as the midpoint presentation is fast approaching!

31/01/16

The main focus for the last few weeks have been on the technical report; I know I really should have a better prototype to show for this presentation but I feel there isn't much point in rushing into it just to have something to show when the likelihood is it will change a lot before May. I have spent the majority of time focusing on the concept of the website and gathering client requirements. I didn't expect to spend so much time on this but I now feel I need to get the planning right before I can make any decent attempt to develop it.

I have been lucky with the responses I have gotten from my fist survey, however the one aimed at the venues did gain much traction. So I tried a different approach. I started to ask around, all my family and friends, my connections on Facebook and Twitter, looking for anyone I could speak to that worked in the hospitality industry that I could get some feedback from their point of view. I got very lucky when I was put in contact with the Wedding Coordinator of the Clayton Hotel in Galway. She has kindly completed and my survey and we have been emailing back and forth. She has given me some great feedback and some information on the hotels systems to help me on my way. Now that I know the systems I will be looking for my website to integrate with I have got in touch with an Integration Manager through work that has agreed to sit with me next month to talk it over. I plan to have made good headway on the coding front before this conversation so I ask him for a peer review.

07/02/16

So the prototype presentation is now complete – one thing ticked off the long list! I had to take a few days leave off work in order to prepare. I went through my paperwork with a fine tooth comb, I know it

is still lacking in some areas but this will all come in time – along with the building of my application. For now, I hope that what was it in was enough.

I feel the presentation itself went quite well, I tried to give as much detail as possible without getting into the technical side too much as felt this is a way to 'lose the room'. I annoyed my friends and family enough having them sit through my fake presentations at home but really feel that helped to build my confidence as I am not a confident public speaker. I got a little bit more done on the prototype beforehand, but also ran into some difficulty with my photograph carousel on the homepage, after a frustrating new hours I decided to just show it as it was – after all it is a prototype so I am hoping they will be lenient on current issues.

16/02/16

We got our results from the prototype presentation today, I have to say I'm a bit disappointed as I gave the presentation my all but I was docked marked due to points missing in my documentation. Now I need to just focus on the project going forward and put more hours into it. I have scheduled a study session this weekend in the college to bounce some ideas around with some classmates so I am hoping that will help me solve my small issues and move forward.

27/02/16

Today was a pretty bad day…I made the ultimate error of not backing up my application before trying to implement a lot of changes, the changes went wrong and I now have a lot of issues to try and fix. I spent 4 hours today at it, didn't get very far so I have decided to stop and come back to it tomorrow with fresh eyes.

28/02/16

I made the tough decision today to restart my project!! Although this seems crazy at this stage (3 months to go!) I do feel it is the right move for me as I am spending so much time trying to fix issues and getting nowhere – it's time to bite the bullet and restart. I feel I have gotten a good chunk of it back today so hopefully another couple of days like this and I will be back where I was and ready to move forward. Lesson learned – backup!

05/03/16

After spending all this weekend working on it I feel I have the project back to what I had achieved before, minus the errors! Now I have a lot of content in my homepage, wedding stories page and planning pages. It was definitely the right thing to do as I now have a good baseline to build in the functionality. The plan for the next week is to create and attach my database and fill it with details of suppliers. I was unsure if I could use real suppliers, without their permission, so I got in touch with Eamon who said that I would be safer to make up fake details as he hopes I will be hosting the website once complete.

20/03/16

I am not as far ahead on this as I would like to be at this stage but with work I have found it difficult to find the time. The last couple of weeks have been really busy at work.

I have the supplier database connected and have started to fill the tables with supplier content. I have also worked on the authentication page, creating a database for the login details and spent quite a lot of time testing this as it took me a long time to get it right!

03/04/16

Lately I have been pretty much bogged down with CA's so have not had a lot of time to dedicate to the project. Work was also crazy busy but I have been lucky with how Good Friday and the Easter fell so had a few days off to work on my CA's. I now have all outstanding CA's submitted. My exams are starting on the 11th April so from today on I will be focusing on them. When they finish I hope to take some more time off work to spend in the library focusing entirely on the project!

16/04/16

My exams finished this week so this now thankfully leaves me 100% focused on this project. Today I have been working more on the database connection and unfortunately I have realised that I may have over complicated things for no reason. I downloaded and installed My SQL Server Management Studio and was trying to manage my database from within this external tool. It only dawned on me today that I can create an SQL database in my project by registering as a user. .NET automatically connect to an SQL server when there is a registered member on your website so that was a lot of time wasted by me! I have removed all traces of my previous database and am now working solely with the new database called "DefaultConnection" - no need to over complicate things.

20/04/16

I have spent the last few days creating tables for Calendar, SupplierTable and Feedback table. I now have a working Contact us form linked to the homepage where guests can complete the form and it is stored in my database. I also now have a comprehensive list of made up suppliers, along with various details about them and an image that will be displayed in my project. I used a free online resource to download multiple images that I can use for free on my website.

30/04/2016

I was lucky to get a few days off work this week so have done quite a bit of work on the supplier's page over the last few days. I now have two dropdown menu options where users can select the category of supplier they are looking for and in what location and the website will display a recommendation for you. I have also created new pages for each category of supplier and a full list of suppliers are now stored where the user can select a desired supplier and it will take you to a new page with information on that supplier – this information is pulled from the database. This was a difficult talk to get working but I finally got there today. I have also started to write some test scripts for the website that I plan to give to people to complete. Ideally I would want one filled out by a fellow student, one filled out by a potential supplier (I might ask Karina from the Clayton hotel that helped with my research at the beginning) and one filled

out by an engaged or recently married guest. I have also began updating my technical report as I am conscience that is worth a lot marks so I don't want to leave it until the last minute!

07/04/16

I cannot believe we are in May! Even though I have been flat out working on this the past few weeks I still have a way to go before completion! I got all my completed test scripts back and I have some big failures that I need to be spending every minute of every day trying to fix! Now I'm not so sure my late idea of having a user personalised wedding to-do list was such a good idea as I am trouble getting it to work. I am also having issue with suppliers updating dates in their calendar. If I manually do it, it works perfectly but they are getting errors on the form submission so I have a lot more work ahead!

I've also spent some time working on my documentation the last few days, I would say it is about 70% of the way there so I will need to dedicate a few days to that as it has to be completed printed and bound by Wednesday. I also have a poster to design and arrange printing for so I will design the poster tomorrow and ring snap about printing on Monday.

10/04/2016

The documentation took a long time to complete! I wanted to have it completed tonight so I would have a few hours tomorrow to review it, print and bind it before the office closes at 5. I got my poster completed and printed in Snap, it looks really good so I am happy with that. Just want to be 100% happy with this document now before uploading but I am 95% of the way there I think. I will look at it with fresh eyes tomorrow, do a full review before getting it printed. So I think this will be my last entry into the journal – fingers crossed it all goes well and I get my last few error fixed before Monday!