WAREHOUSE ADMINISTRATION SYSTEM

Final Report

National College of Ireland
BSc in Computing 2016/2017
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Table on Contents

Declaration Cover Sheet for Project Submission

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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: Warda Obed Date: 2/5/2017

Abstract

The Warehouse Administration System is a constant distribution center database fit for taking care of extensive inventories of an association. This can be used to track the stock of a solitary store, or to deal with the dissemination of stock between a few stores of a bigger establishment. Nonetheless, the framework just records deals and restocking information and gives warning of low stock at any area at a predetermined interim. The objective is to decrease the strain of following instead of to handle all store support. The fundamental objective of Warehouse Administration System is to guarantee predictable accessibility of provisions for shoppers. Therefore, Warehouse Administration System is guided toward proprietors of little to vast stores and stock directors who are dependable of keeping up adequate merchandise close by in a retail or assembling business. It can scale from a solitary PC running both customer and server programming up to numerous stores and warehouses. The framework is additionally fit for following In and out exchange of single or various stores and in addition likewise produces their charging subtle elements. The framework produces month to month reports of offers from which a supervisor of a separate store would have the capacity to know the month to month deals exchange done. Stockroom Management framework is a Desktop application and a mobile application.

1. Introduction

1.1. Background

The reason I chose this project is because shortage of Warehouse administration systems in this industry especially for small companies. I wanted to create a system that assisted companies in both, keeping track of stocks and being able to get orders from the suppliers. The system I plan on creating will help all companies big and small to complete what they set out to accomplish.

The project will have three sort of logins one for the administrator one for the business director and the distribution center supervisor.

Admin Login: will permit administrator to play out the accompanying errand.

- Add Products
- In & Out Transactions
- Add Supplier
- Add Dealer
- View Supplier/Dealer
- View Transactions
- Monthly Report
- View Stocks
- Billing of In/Out Transactions

Sales Manager Login: will permit Sales Manager to play out the accompanying undertaking of.

- In & Out Transactions
- View Stocks

Warehouse Manager Login: will permit Warehouse Manager to play out the accompanying undertaking of.

- In & Out Transactions
- View Supplier/Dealer
- View Transactions
- Monthly Report
- View Stocks

The majority of the substance will be put away in a social database. The application will have much usefulness to permit a portion of the introduced data to be altered.

It ought to likewise be conceivable to upgrade the database with the altered data and to erase data from the database.

1.2. Aims

The main aim of this project is to manage a huge inventory of an organization or to manage multiplicity of stock between a number of stores of a larger franchise. The major objective of warehouse administration system is to make sure reliable availability of supplies for clients. Warehouse administration system is directed toward owners of small to large stores and stock managers who are accountable of maintaining plenty of goods on hand in a retail or manufacturing business it is able to present reports on monthly basis. Warehouse administration system allows admin to produce an invoice for each in and out transaction. Warehouse administration system will be focused on speed and efficiency, Warehouse administration system makes the whole thing from inputting information to taking record easier. For the most part effective warehouse system products lift up your operating performance which leads to more output. It helps maintain reasonable stocks of material. It lowers the cost many companies spend huge amounts of funds for their warehouse. It provides regular and sensible supply to clients all the way through the adequate stocks of finished products.

1.3. Technologies

The web part of the project was developed using a variety of web technologies, specifically PHP, HTML, CSS, JavaScript, MySQL, bootstrap, and Json.

The resources that are required for this project are developer account, external data from online resources, i3 processor based computer or higher, memory which is worth1 GB RAM, hard drive which is 50 GB, monitor and internet connection. At a Software Requirement view the resources you would need for that would be windows 7 or higher, visual studio and SQL server.

2. Structure

This report is organized so that in the first section, the reader can get a general review of my project with reference to what it is precisely.

The second section describes the background of my project, what the main aim of the project are and afterward it gives an outline of the technologies that were used as a part of the project.

The third section describes two practical requirements, portraying what they are, It then will go ahead to detail what requirements are present and important to use.

The next section will go ahead to detail the plan which is the design and architecture of the project, how it was implemented and how the UI is composed. At long last it will examine how the project got true testing from individuals and how it was assessed.

The fourth section contains any conclusions to the project made after it was finished.

The fifth section will portray any further improvements arranged in connection to the project after it has been submitted.

The sixth section outlines the bibliography of the information used to finish the project.

The seventh section will contain the first project prop.0osal, requirement specification, the month to month reflective journal and other materials used.

3. System

1.1. Requirements

1.1.1. Functional requirements

The web-based application will need to be responsive to the user that's using it.

The app needs a database to store every information that users has updated.

The website will need a live update of the table database after users have updated it.

Users need to be able to login to the site where they can view all of the in and out transactions

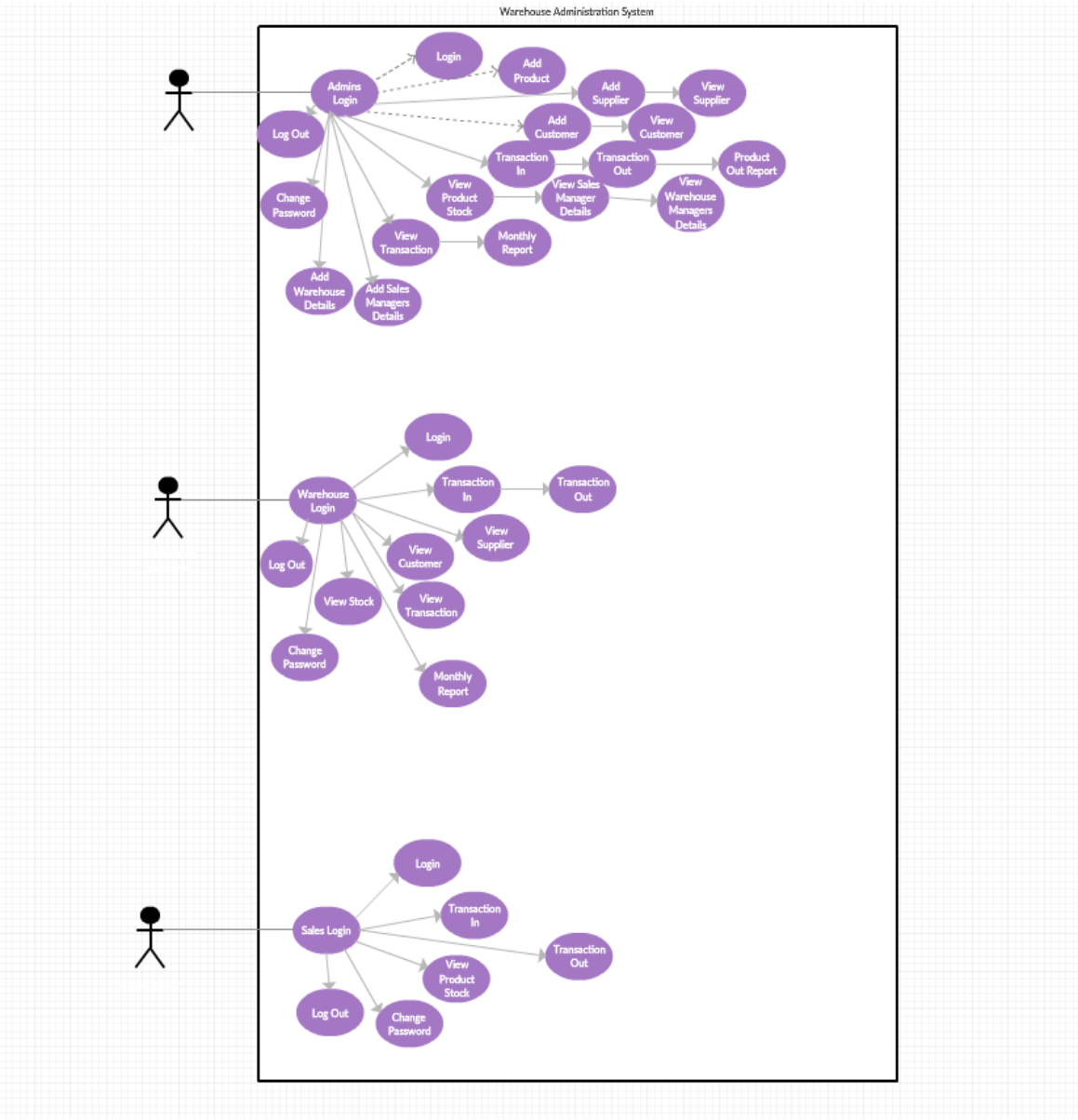
The system will accomplish the main objective of the website which is stock control for a Warehouse Administration System users being able to complete the set of information on the website.

The user interface will have individual data storage on the database which is for the admins, sales managers and warehouse managers they can access with their personal details, check cannot repeat the same questions as before. The user can access these areas with freedom however has been completed. This will be accomplished by the database which will have new updates every month.

The performance of the website is to provide a functional running website where users will be able to use and understand clearly. This will be accomplished by data configuration being able to function properly.

The reliability of the system will come from Warehouse Administration System as it will have a supporting system which will back up all data and save all records of users and administrators. The security system will be top of the defense mechanism it will rule out any Bugs, Viruses, and Trojans. This will be accomplished by installing an antivirus program into the database system.

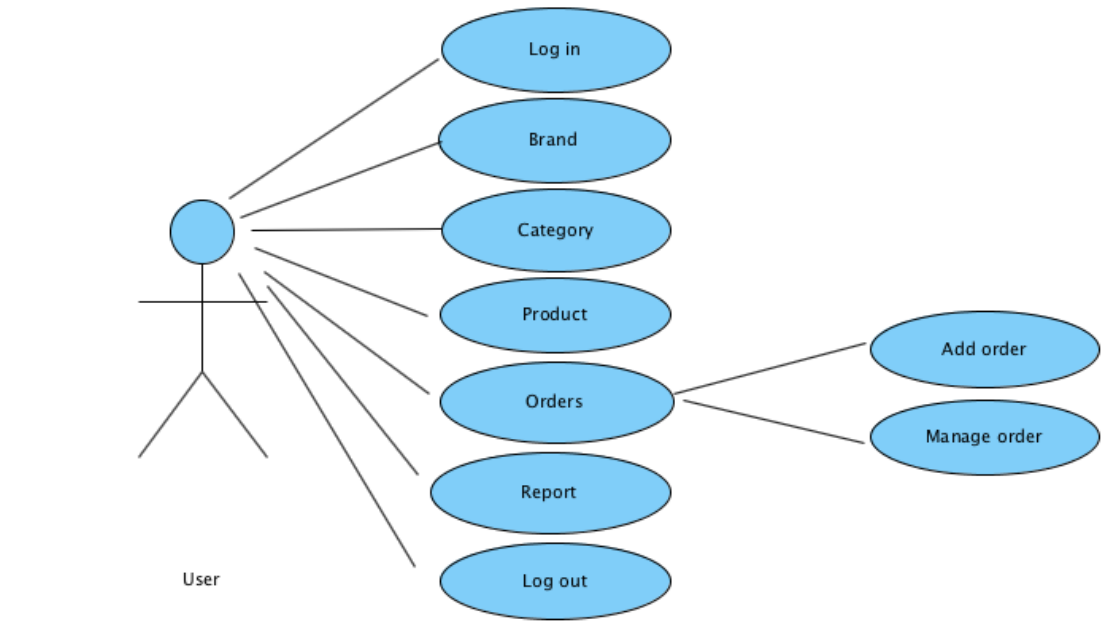
Use Case Diagram



This was the use case diagram before the project was completed

This graph exhibits how a general client can communicate with the site.

This diagram demonstrates how the users of the service can interact with the website.



This is the use case diagram after the project was completed.

Requirement 1 <Login >

Description & Priority

The user needs to login. This requirement is very important as it is essential for the system to start.

It is a need, as staff are required to use their own record while getting to the system.

For this Warehouse Administration System to work, a PC with a web program introduced is required. The PC must have entry to the web all together for the user to get to the website.

Use Case

Scope

The scope of this use case is to allow users to login.

Description

This use case describes the process of the user login in.

Flow Description

Precondition

The users need to have their login information.

Activation

This use case starts when the user logs in.

Main flow

- The user logs in.
- The system identifies the user.
- The user gets logged in.

Alternate flow

A1:

- If the system information is wrong.
- The user wouldn't be able to login.

Termination

The system presents the next option to the user.

Post condition

The system goes into a wait state.

Code segment

This code segment details how the user log into the system and access the functions available. It will check if the user has entered the correct username and the correct password to see if both of the details match, if the information provided

is wrong it will return a message to the user to inform them that the Information they have entered is wrong.

```php

$errors = array();

if($_POST) {

    $username = $_POST['username'];
    $password = $_POST['password'];

    if(empty($username) || empty($password)) {
        if($username == "") {
            $errors[] = "Username is required";
        }

        if($password == "") {
            $errors[] = "Password is required";
        }
    } else {
        $sql = "SELECT * FROM users WHERE username = '$username'";
        $result = $connect->query($sql);

        if($result->num_rows == 1) {
            $password = md5($password);
            // exists
            $mainSql = "SELECT * FROM users WHERE username = '$username' AND password = '$password'";
            $mainResult = $connect->query($mainSql);

            if($mainResult->num_rows == 1) {
                $value = $mainResult->fetch_assoc();
                $user_id = $value['user_id'];

                // set session
```

Requirement 2 <Add Product >

Description & Priority

The user is able to add products into the Warehouse Administration System and by doing this it will notify the user how many products are in stock and if they are running low or not.

Use Case

Scope

The scope of this use case is to allow users to add unique products.

Description

This use case describes the ability of a user being able to add a product.

Flow Description

Precondition

The system will wait till the user adds a product.

Main flow

- The users add the products.

Alternate flow

B1 :

- The user enters the product.

Termination

The system presents the next screen.

Post condition

The system goes into a wait state.

Code segment

This code segment details how the user adds the products into the system. It will let the user add as many products as the user wishes to add. There will not be no limit to how many product the user can add.

```php
$valid['success'] = array('success' => false, 'messages' => array());

if($_POST) {

    $productName        = $_POST['productName'];
  // $productImage  = $_POST['productImage'];
  $quantity           = $_POST['quantity'];
  $rate                 = $_POST['rate'];
  $brandName          = $_POST['brandName'];
  $categoryName     = $_POST['categoryName'];
  $productStatus    = $_POST['productStatus'];

    $type = explode('.', $_FILES['productImage']['name']);
    $type = $type[count($type)-1];
    $url = '../assests/images/stock/'.uniqid(rand()).'.'.$type;
    if(in_array($type, array('gif', 'jpg', 'jpeg', 'png', 'JPG', 'GIF', 'JPEG', 'PNG'))) {
        if(is_uploaded_file($_FILES['productImage']['tmp_name'])) {
            if(move_uploaded_file($_FILES['productImage']['tmp_name'], $url)) {

                $sql = "INSERT INTO product (product_name, product_image, brand_id, categories_id, quantity, rate, active, stat
                VALUES ('$productName', '$url', '$brandName', '$categoryName', '$quantity', '$rate', '$productStatus', 1)";

                if($connect->query($sql) === TRUE) {
                    $valid['success'] = true;
                    $valid['messages'] = "Successfully Added";
                } else {
                    $valid['success'] = false;
                    $valid['messages'] = "Error while adding the members";
                }

            }   else {
                return false;
            }   // /else
```

1:1 PHP Tabs: 4

Requirement 4: <Add Customer>

Description & Priority

The user can add customers' orders into the system, any order that is been made will be put into the Warehouse Administration System.

Use Case

Scope

The scope of this use case is to allow the user to add customers.

Description

This use case describes the ability of a user being able to add customers.

Flow Description

Precondition

The system will wait till user adds the customers.

Main flow

- The user needs to add the customer.

Alternate flow

D1:

- The user adds the customer.

Termination

The system presents the next screen.

Post condition

The system goes into a wait state.

Requirement 5: <Transaction In>

Description & Priority

The user can add transactions in along without transactions. It will also have a graph so the user can analysis from which will show how well the company is going for the month and also a monthly print out report.

Use Case

Scope

The scope of this use case is to allow users to add transactions.

Description

This use case describes the ability of a user being able to add transactions in.

Flow Description

Precondition

The system will wait till user adds the transaction.

Main flow

- The user will add transactions.

Termination

The system presents the next screen.

Post condition

The system goes into a wait state.

1.1.2. User requirements

The application should be fast and responsive as soon as the user uses it. Once the user submits the information, the system should be updated instantly it should be easy to read and guidelines should be easy to follow.

The main clients will be big companies and also small companies who will be using the system to check stock control and to keep them updates with what's running low and what's not.

The main user requirements is for staff individuals. They have to sign into the system to get to the usefulness that encourages the administration procedure. Once they've done that, they have full access to Warehouse Administration System.

All information that is entered ought to be in a way that different users will get it. The framework will be planned so that the database will store all information entered with the goal that it will be up to the person to comprehend the data entered.

1.1.3. Non-Functional Requirements

Performance/Response time requirement

If all the website components are functioning properly, the site should respond in 1.0 seconds to all user requests.

Availability requirement

Extent to which the source or data the warehouse system is promptly available to all stakeholders at all time.

Recover requirement

There will be backup data in order to recover the website in case of an unexpected crash or corruption.

Robustness requirement

The website should provide an error message and continue to work properly when user provides incorrect inputs and there shall not be a single hardware components point of failure.

Reliability requirement

Percentage of time the source or data warehouse system is available for use considering aspects of maturity, fault tolerance and recoverability.

Mean time between failures should be at least 1 year.

Components should not fail more than an average 2 times per year.

Probability of component failure should not exceed .001%per year.

Portability requirement

Porting the app from Internet Explorer to Android browser should not require modifying more than 2% of the modules.

Reusability requirement

A minimum of 30% of the applications documentation should be potentially reusable in future developing users will be reusing the same programmer as often to control stock check.

Resource utilization requirement

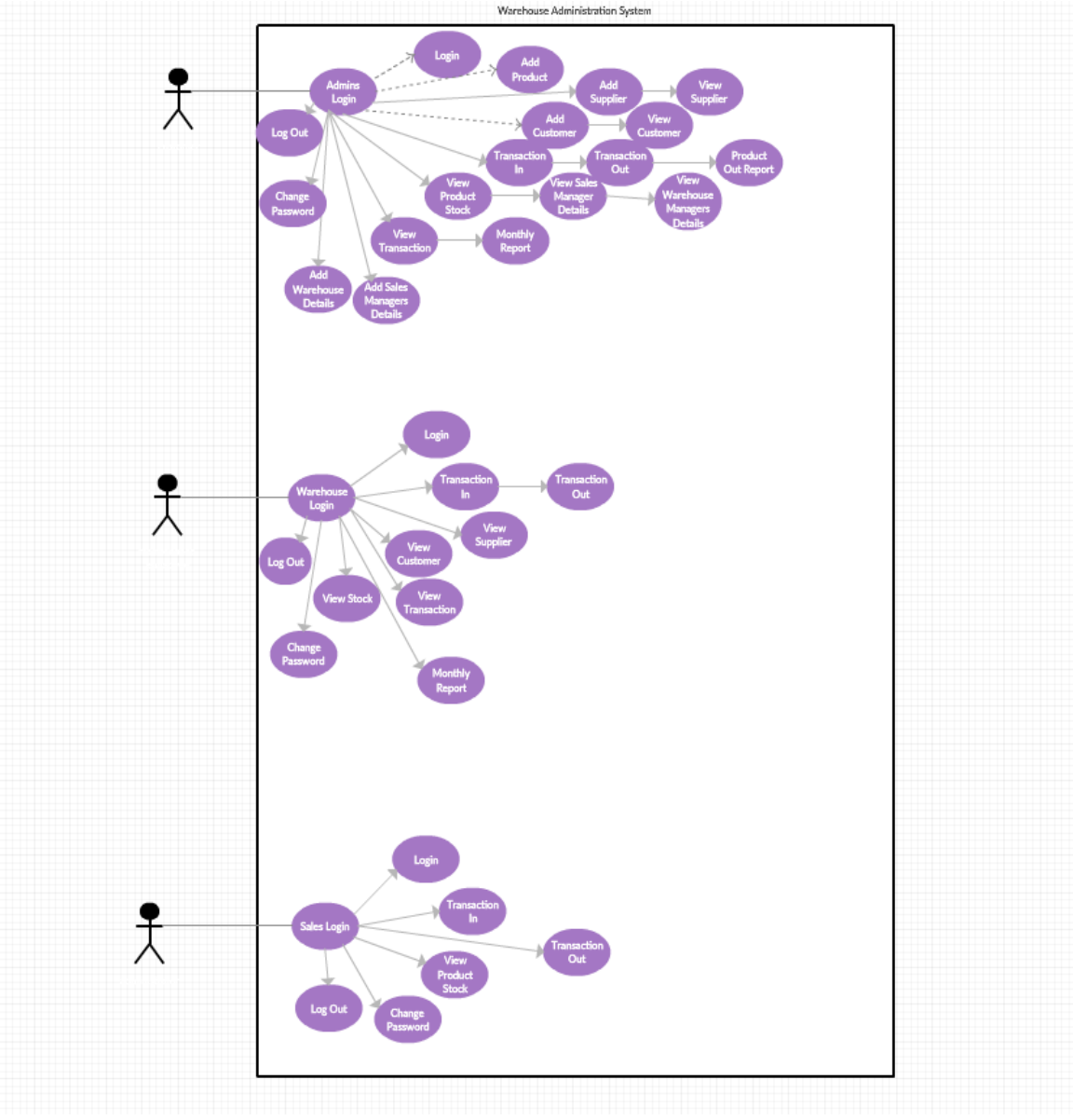
The warehouse system will use all available resources in order for it to be at a certain high standard of stability.

1.1.4. Usability requirements

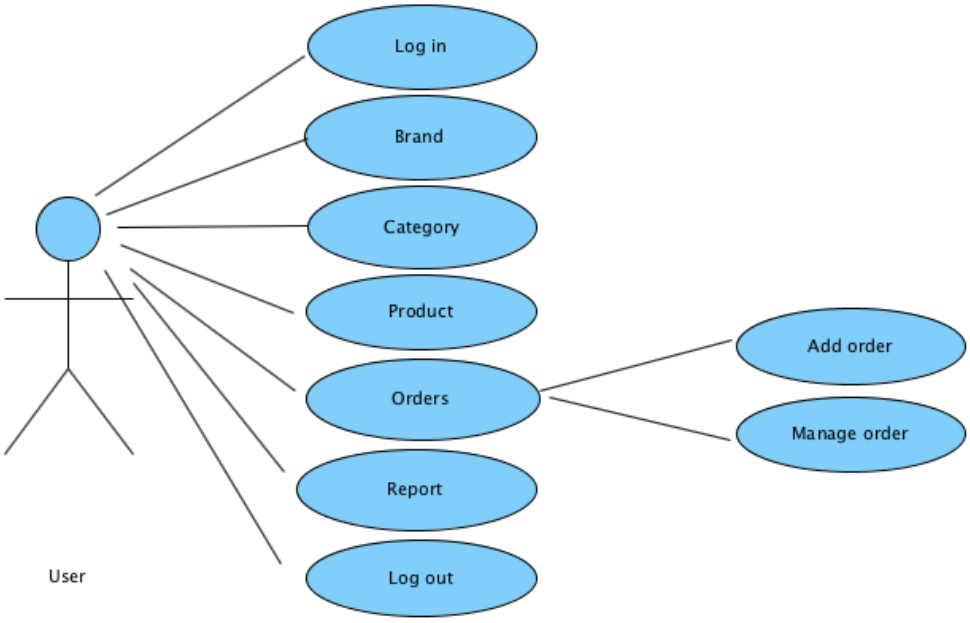
The script must have basic summon with the goal that clients can comprehend or include remarks so will help the client to comprehend the idea.

The project is that the site easy to use. To guarantee this is the situation, the site is planned such that first time clients can undoubtedly explore through the distinctive segments.

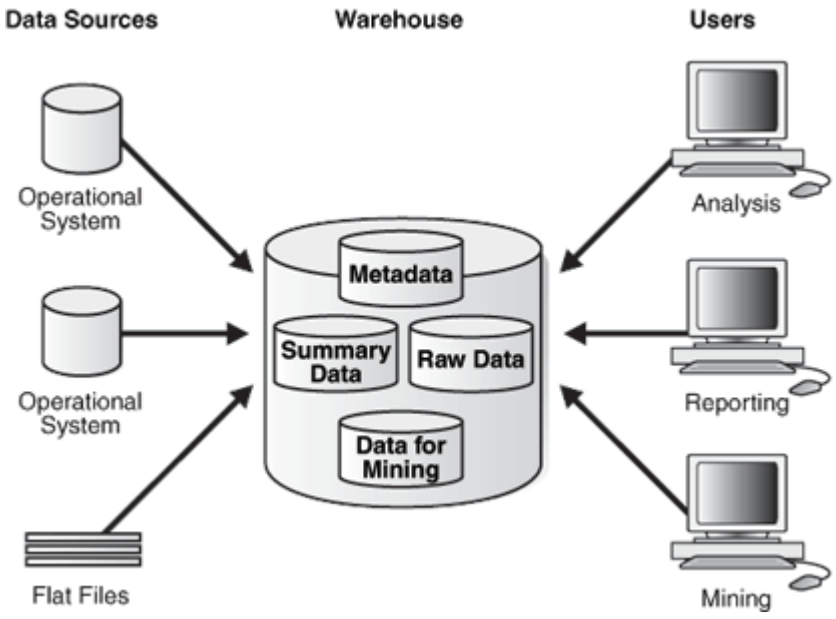
1.2. Design and Architecture



Use case diagram before



Use case diagram after.



Architecture diagram

1.3. Implementation

Trying to develop and accomplish my project was difficult I faced many challenges and tried to tackle each of the challenges, but the most challenging part of my project had to be adding the graph into my project which was really difficult as I encountered many errors. As I continued to research I eventually managed how to try make it work with my project.

This code snippet below demonstrates how I got the graph to work.

<html>

<title></title>

<script type="text/javascript" src="assests/jquery/fusioncharts.js"></script>

<script type="text/javascript" src="assests/jquery/fusioncharts.theme.ocean.js"></script>

<body>

<?php

This is a simple example on how to draw a chart using FusionCharts and PHP. Which includes/fusioncharts.php, which contains functions to help us easily embed the charts. It also Include the `fusioncharts.php` file that contains functions to embed the charts.

include("includes/fusioncharts.php");

require_once 'php_action/db_connect.php';

The following four code lines contain the database connection information. Alternatively, you can move these code lines to a separate file and include the file here. You can also modify this code based on your database connection.

$strQuery = "Select SUM(order_item.quantity) AS quantity, product.product_name AS name from orders INNER JOIN order_item ON order_item.order_id = orders.order_id

INNER JOIN product ON product.product_id = order_item.product_id GROUP BY product.product_name";

This bit here executes the query, or else return the error message.

```
 $result = $connect->query($strQuery) or exit("Error code ({$dbhandle->errno}): {$dbhandle->error}");

 If the query returns a valid response, prepare the JSON string
 if ($result) {

  This code here holds the chart attributes and data

  $arrData = array(
    "chart" => array(
       "caption" => "Top 10 Most Populous Countries",
       "subCaption" => "Top 5 stores in last month by revenue",
       "numberPrefix" => "$",
       "theme"=> "ocean",
     )
  );

  $arrData["data"] = array();

  // Push the data into the array
  while($row = mysqli_fetch_array($result)) {
    array_push($arrData["data"], array(
       "label" => $row["name"],
       "value" => $row["quantity"]
       )
    );
  }
```

JSON Encode the data to retrieve the string containing the JSON representation of the data in the array.

```
    $jsonEncodedData = json_encode($arrData);
```

This code here creates an object for the column chart using the FusionCharts PHP class constructor. Syntax for the constructor is FusionCharts ("type of chart", "unique chart id", width of the chart, height of the chart, div id to render the chart, data format, data source). Because we are using JSON data to render the chart, the data format will be json. The variable “$jsonEncodeData” holds all the JSON data for the chart, and will be passed as the value for the data source parameter of the constructor.

```
    $columnChart = new FusionCharts("column2d", "ex1" , 600, 400, "chart-1", "json", $jsonEncodedData);
```

This code here renders the chart.

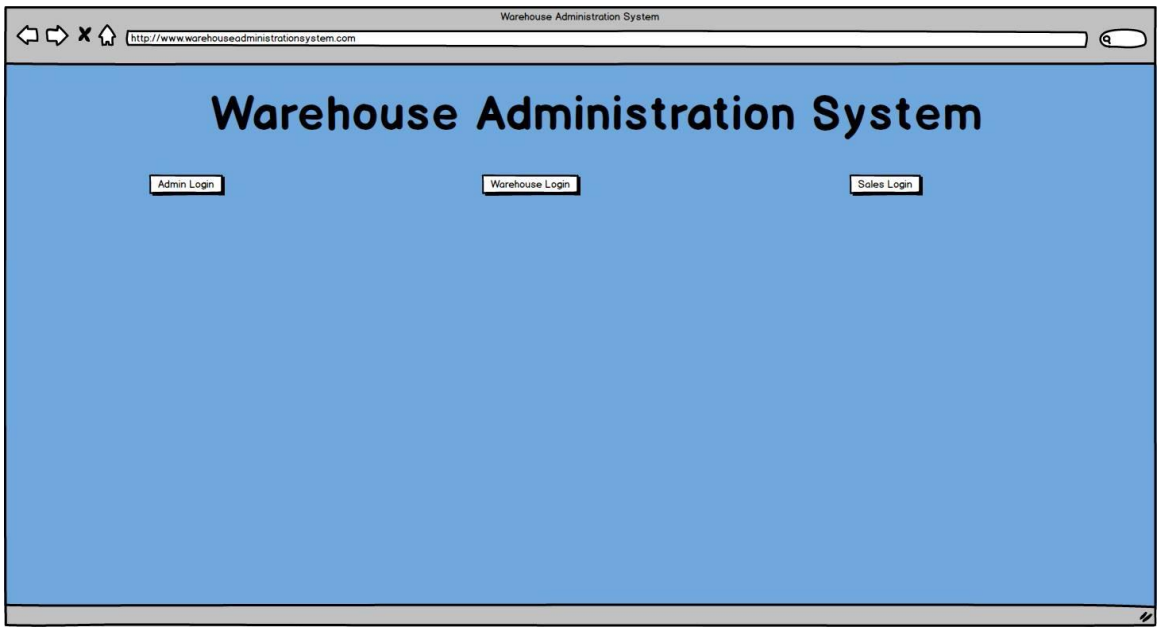
```
    $columnChart->render();

 }

?>
     <div id="chart-1">FusionCharts will load here!</div>
  </body>
</html>
```

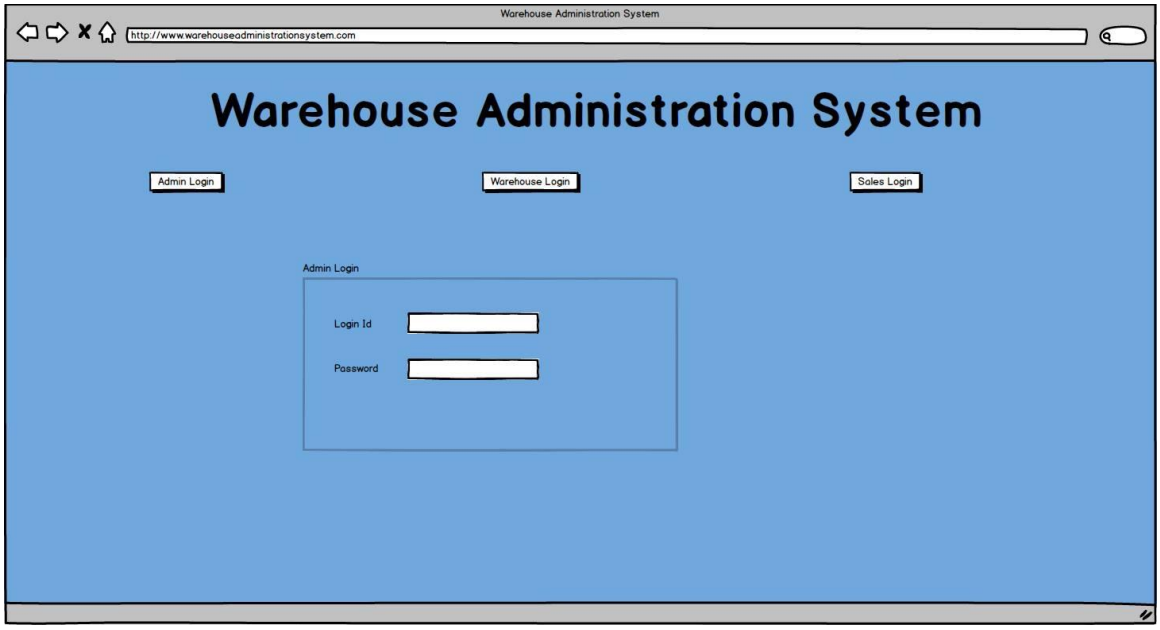
1.4. Graphical User Interface (GUI) Layout

This was the GUI that was made before the project has begun its a site that communicate with clients by using a Graphical User Interface (GUI).

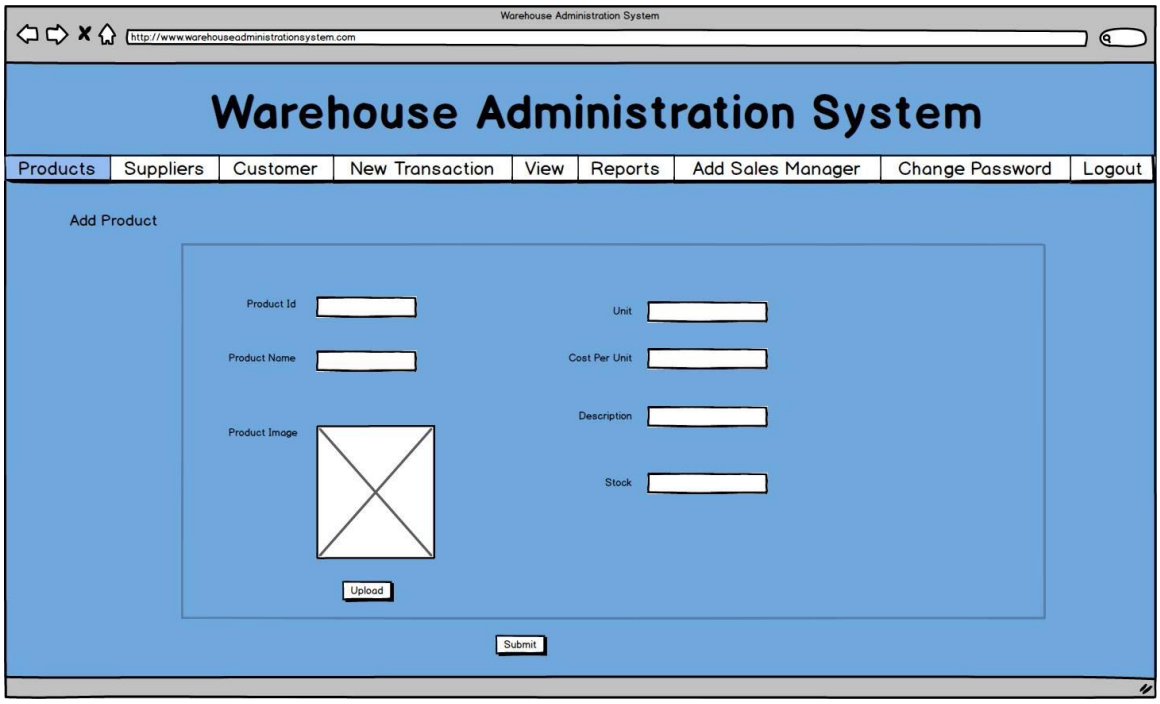


This is the login for site users. Admin Login is available for administrators to login. Warehouse Login is available for warehouse managers and Sales administration login is available for sales administration logins.

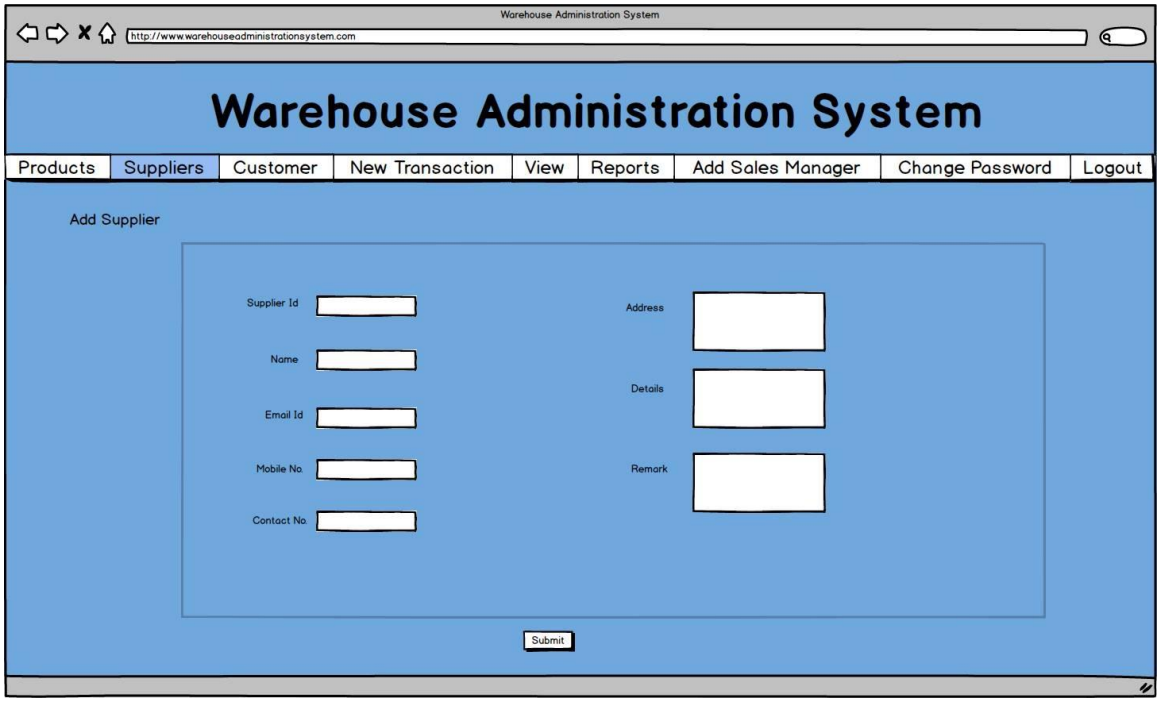
Anyone who wants to login please have user information and password available.



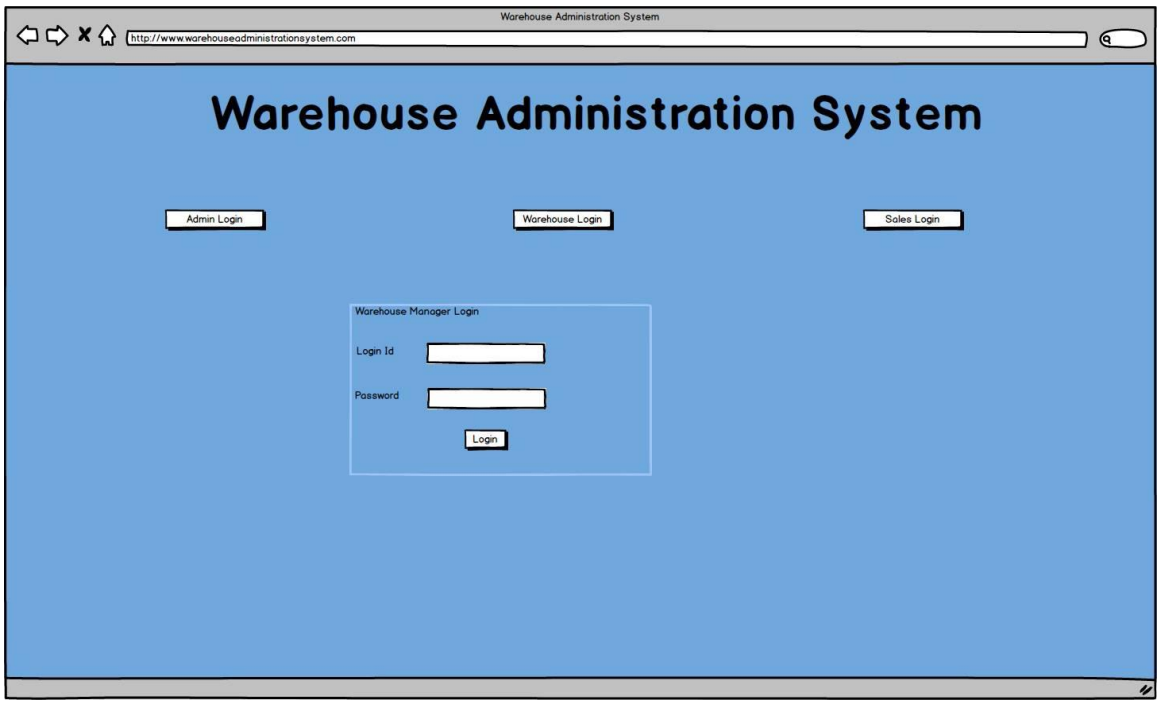
This is the login for the admin.



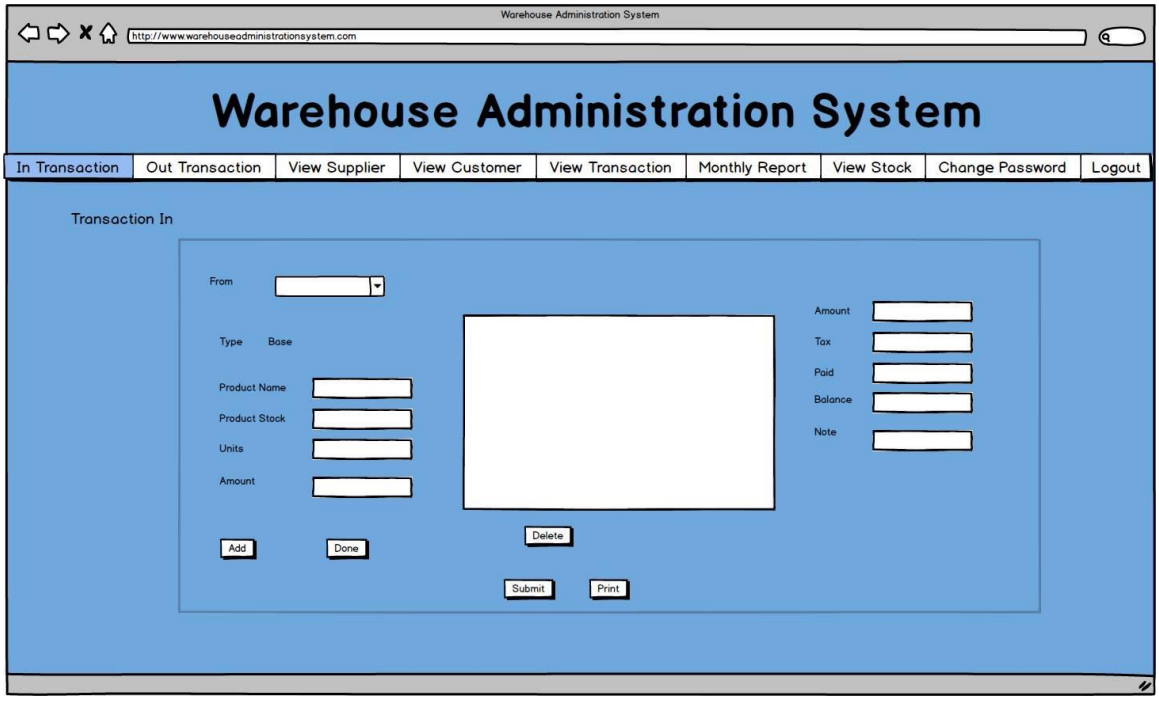
This is the product page for the admin.



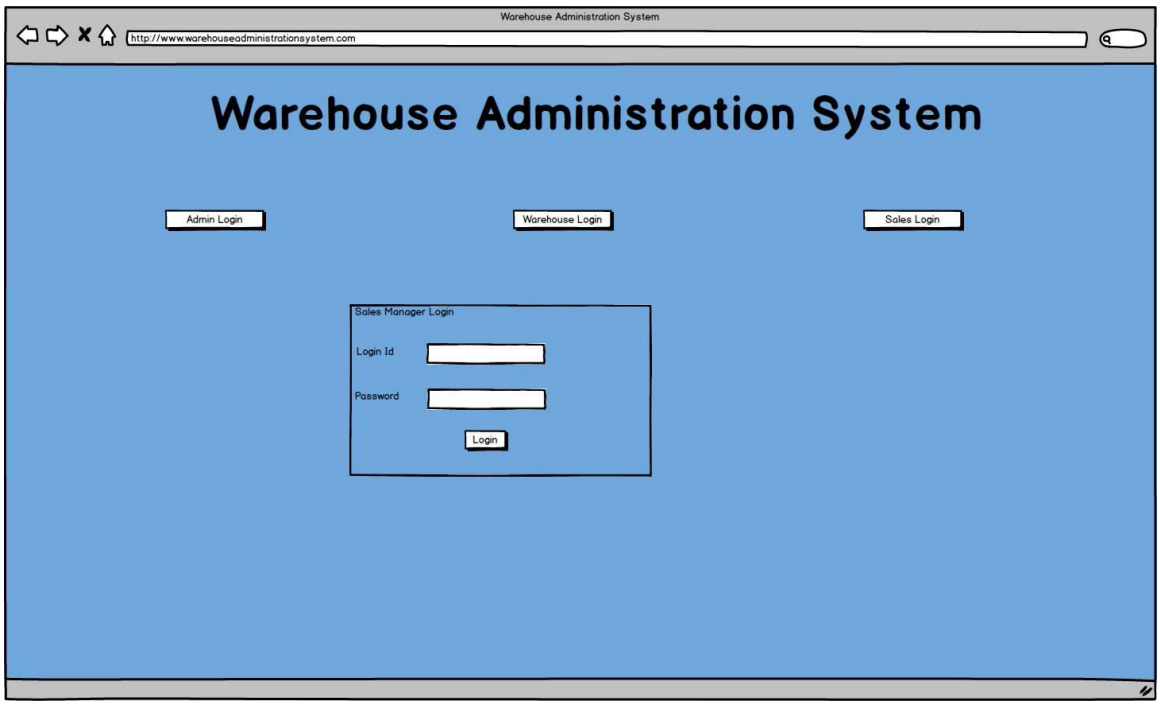
This is the supplier's page for the admin.



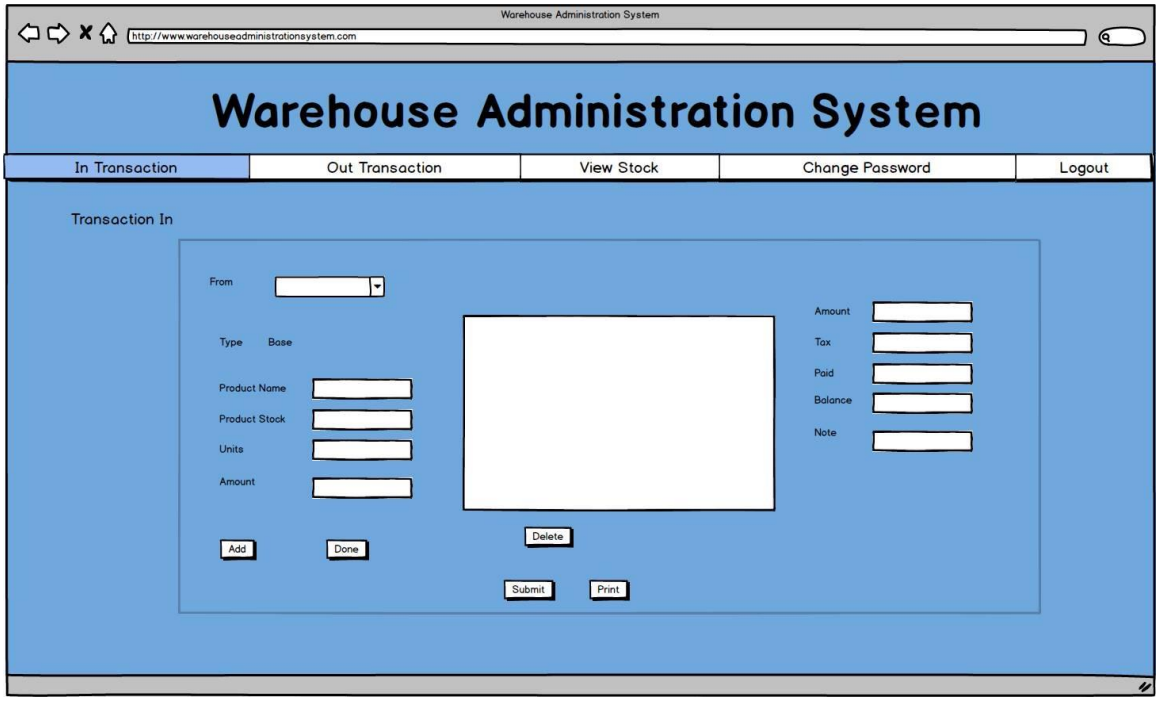
This is the login page for the warehouse users.



This is the transaction page for the warehouse users.



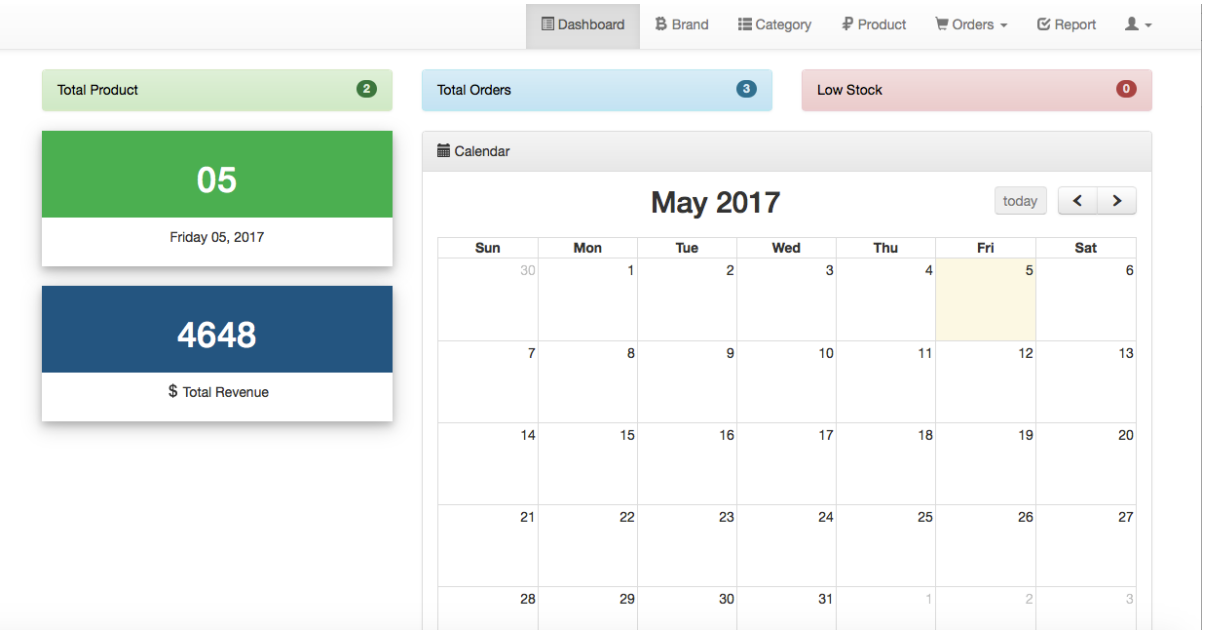
This is the login page for the sales users.



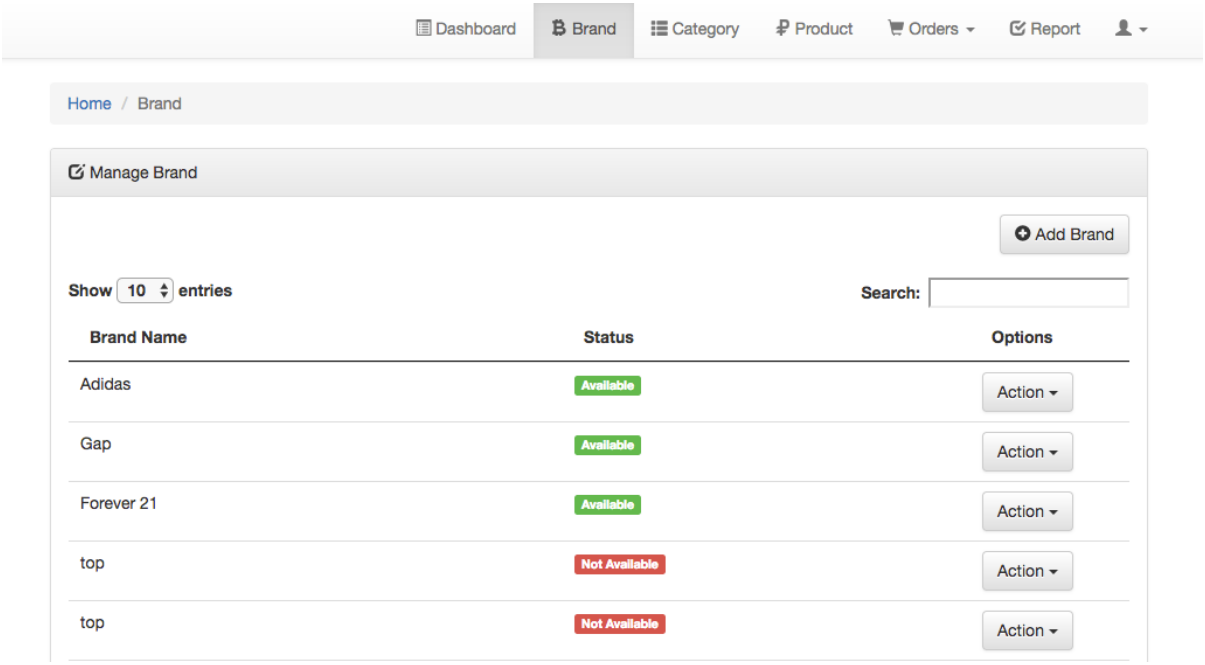
This is the transaction page for the sales users.

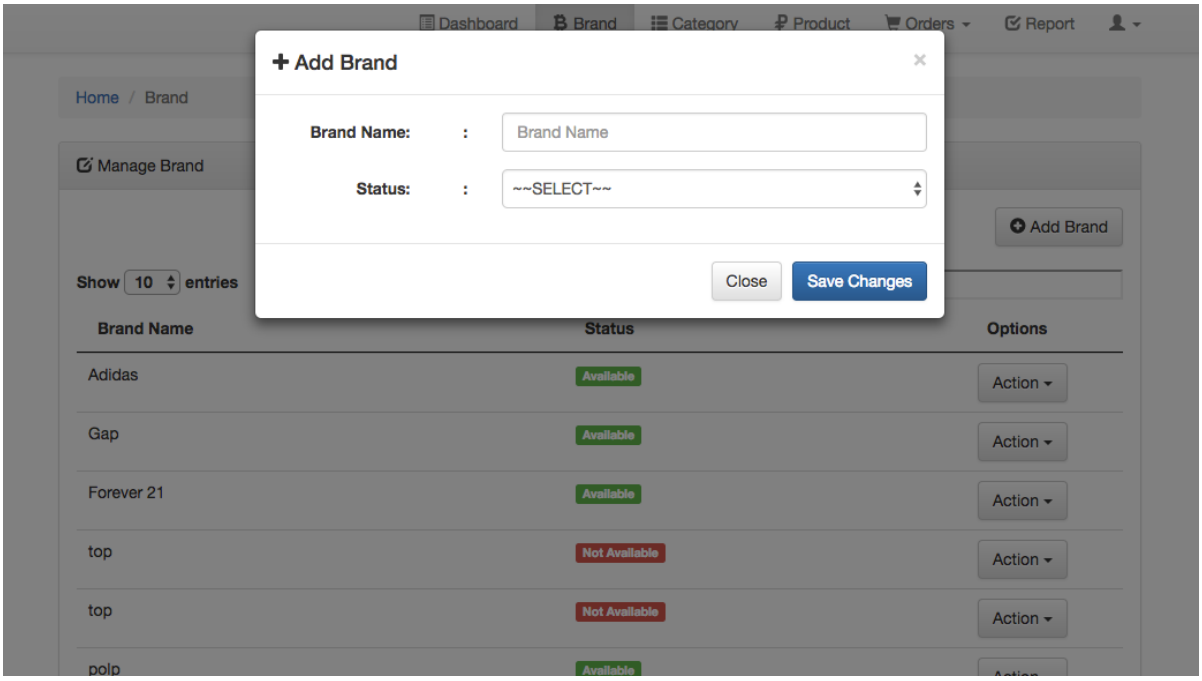
In addition, this will have more tabs included.

After the project was completed this was the outcome of my project major changes have been made as time went by with my project but the outcome of my project worked perfectly and I was really satisfied with it.

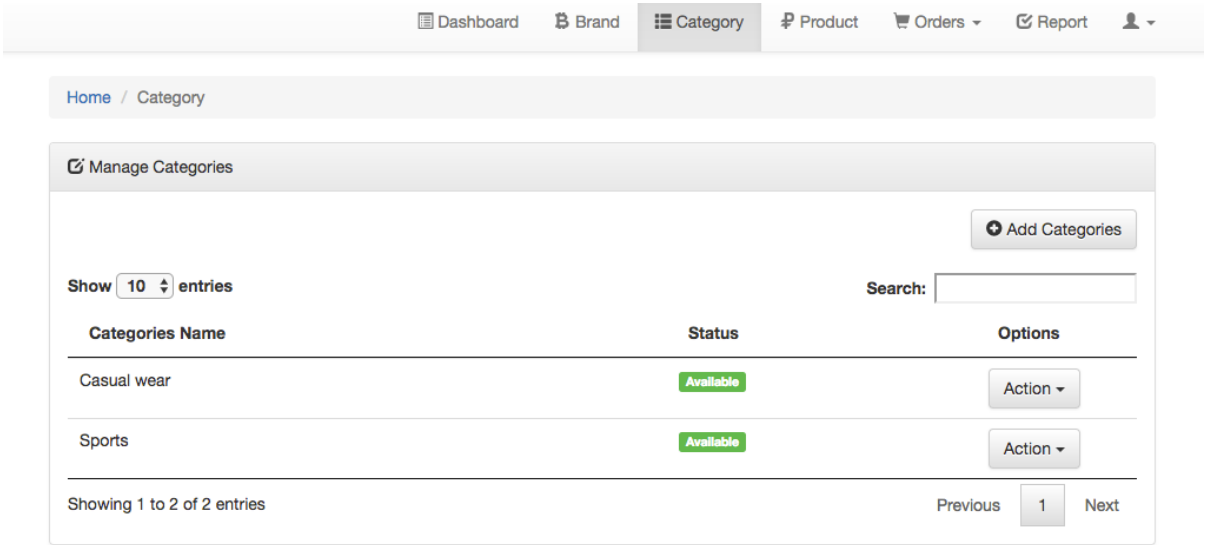


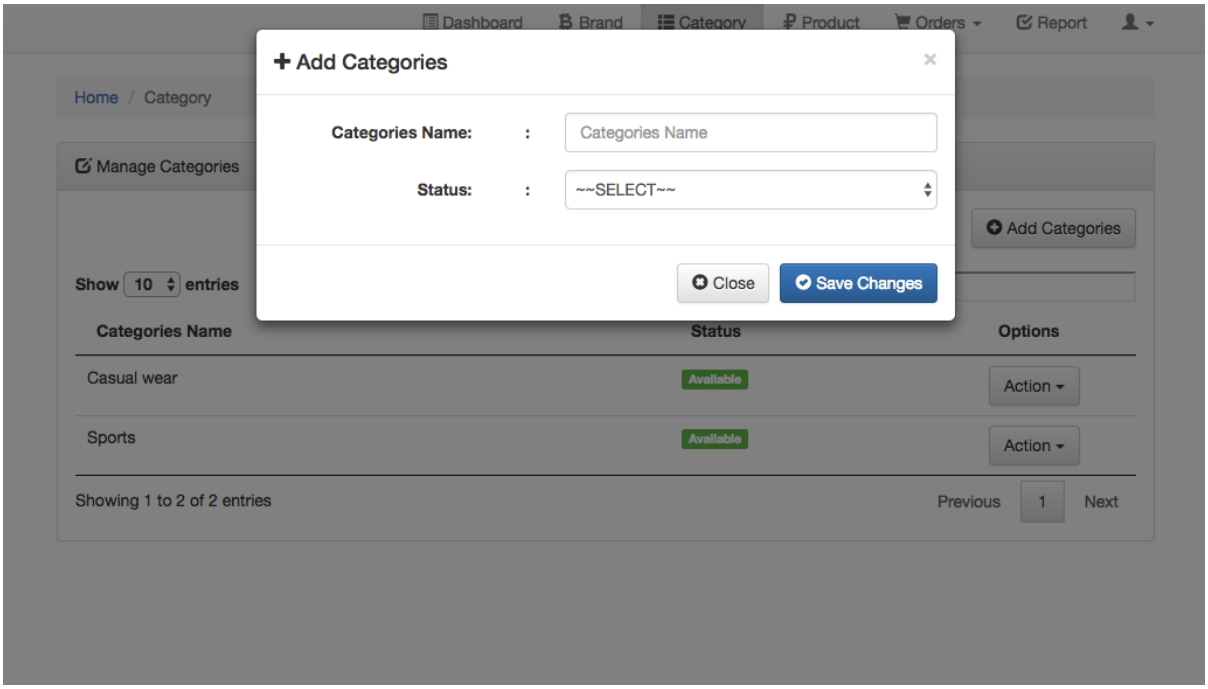
This is the main page of the Warehouse Administration System.



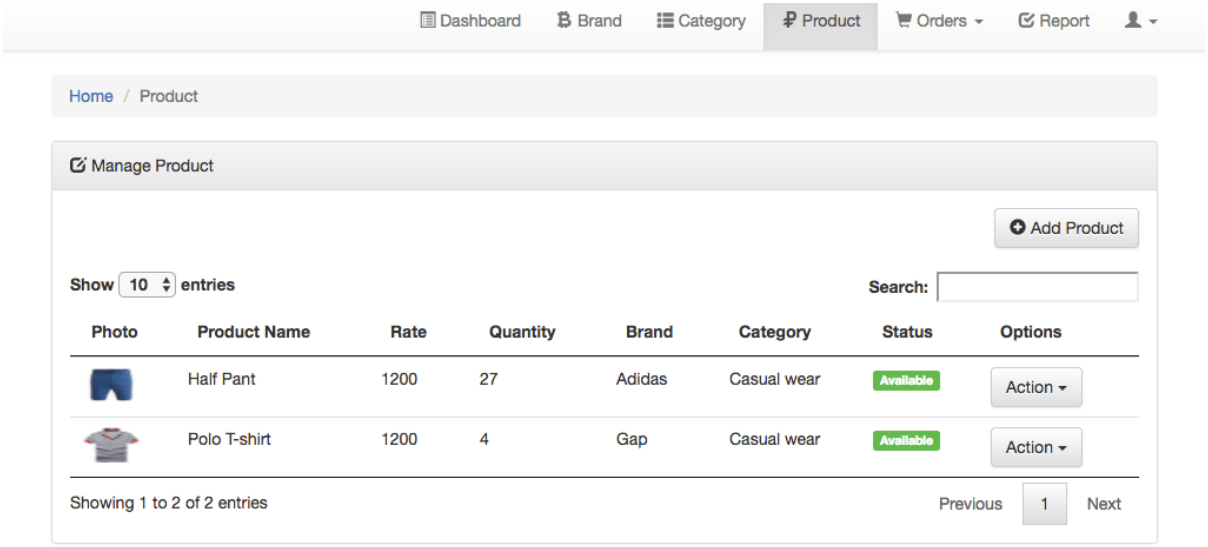


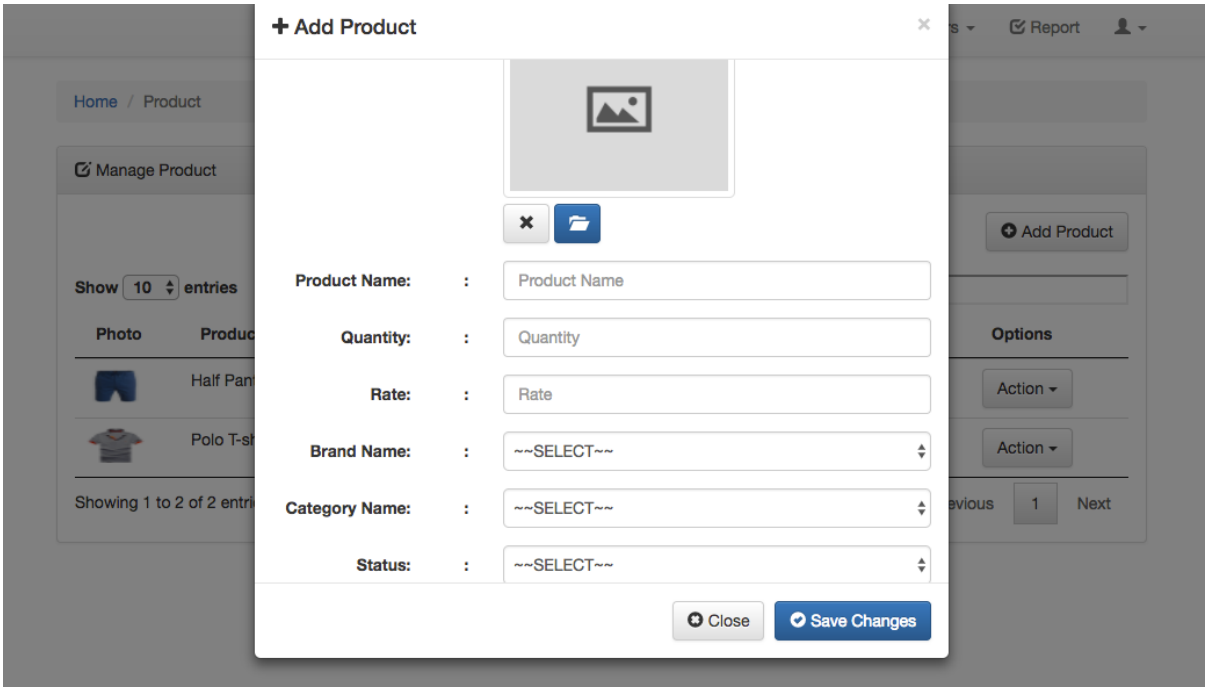
This will be the section for brands that will be added into the Warehouse Administration System by users.



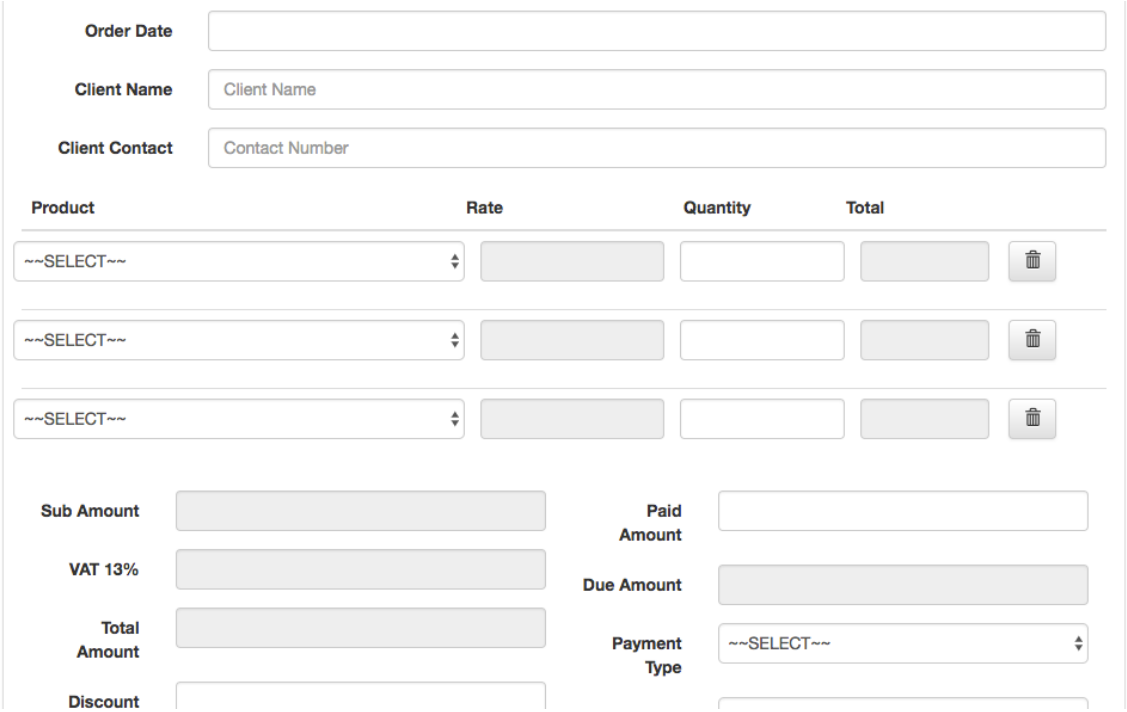


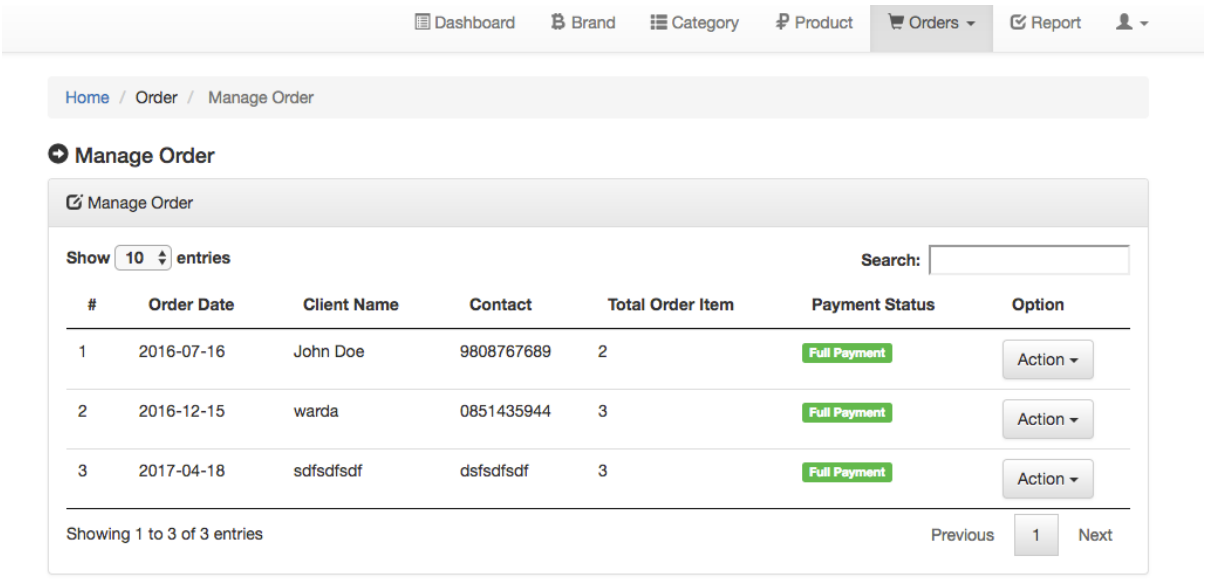
This will be the section that categories will be added in by the users.



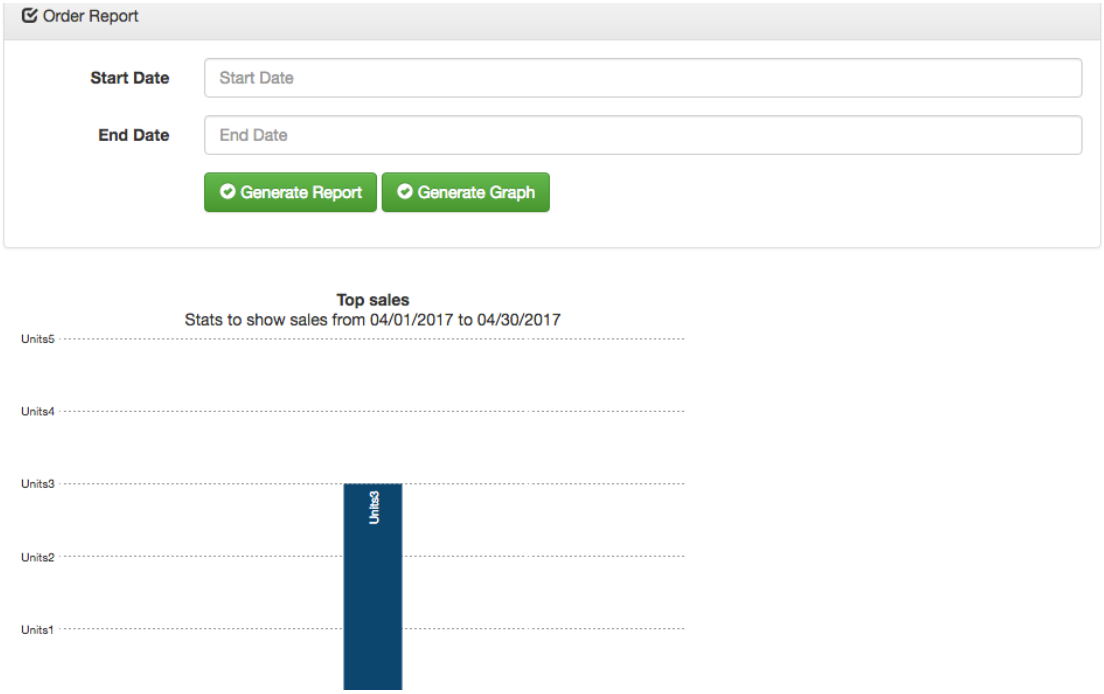


This will the section were users will be able to add products into the system.





This will be the section where users will be able to add customers' orders in and also be able to manage customers' orders at the same time.



This section will be where users will be able to generate a monthly report to see how well the company is doing as an individual and also able to generate a monthly graph to analyze how well they are doing every month.

1.5. Testing

To test the code, I used a different of tools to test the website. It gave back various mistakes yet in the wake of experiencing them I was satisfied to settle the greater part of the errors.

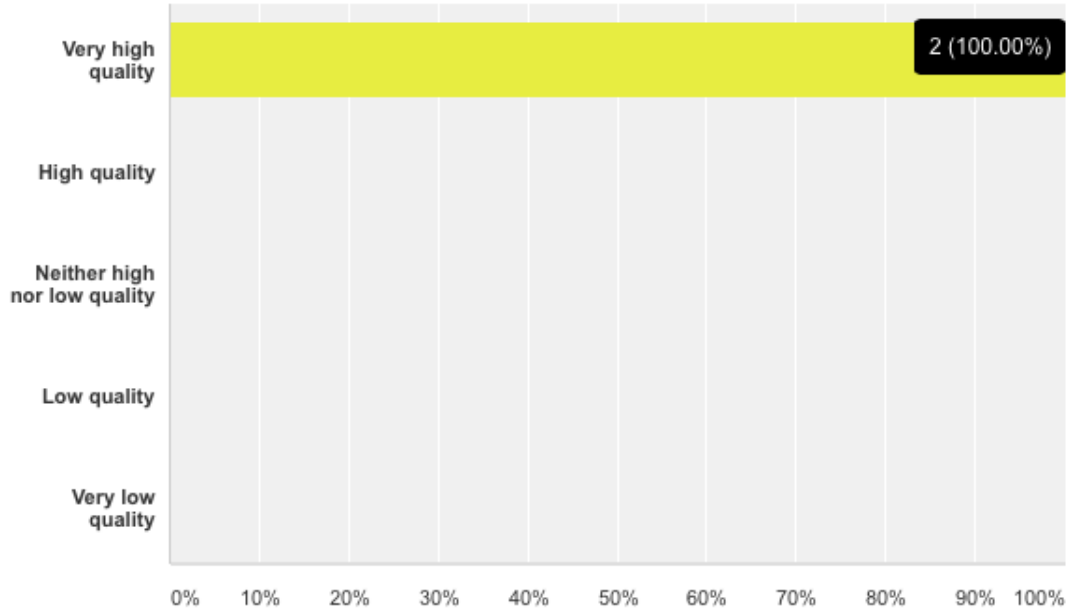
To test the project, I accumulated a gathering of friends with programming knowledge and did not give them access to the code and played out the testing with them by having them cooperate with the site. The outcomes demonstrated that all clients effectively played out the assignments they were set and explored productively through the site.

1.6. Evaluation

I have evaluated the website by getting two people to test it and once the testing was completed I got two of the candidates to do and online survey which was created on Survey Monkey and these are the following result that I have got from two of the testers.

How would you rate the quality of This Warehouse Administration System?

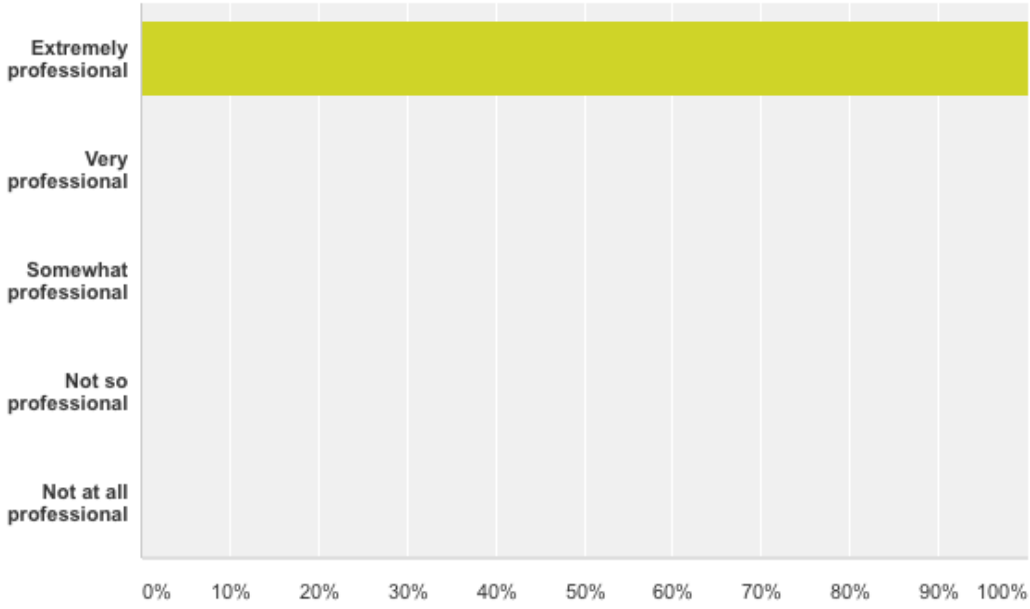
Answered: 2 Skipped: 0



Q2 Customize Export

How professional is our website?

Answered: 2 Skipped: 0

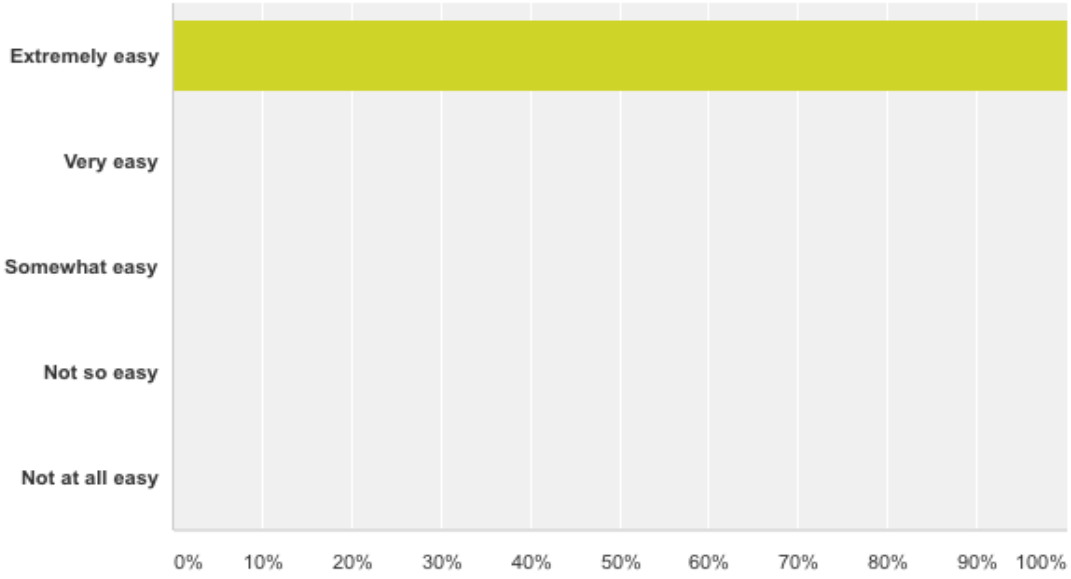


Q6

Show Benchmark | Customize | Export

How easy is it to understand the information on our website?

Answered: 2 Skipped: 0

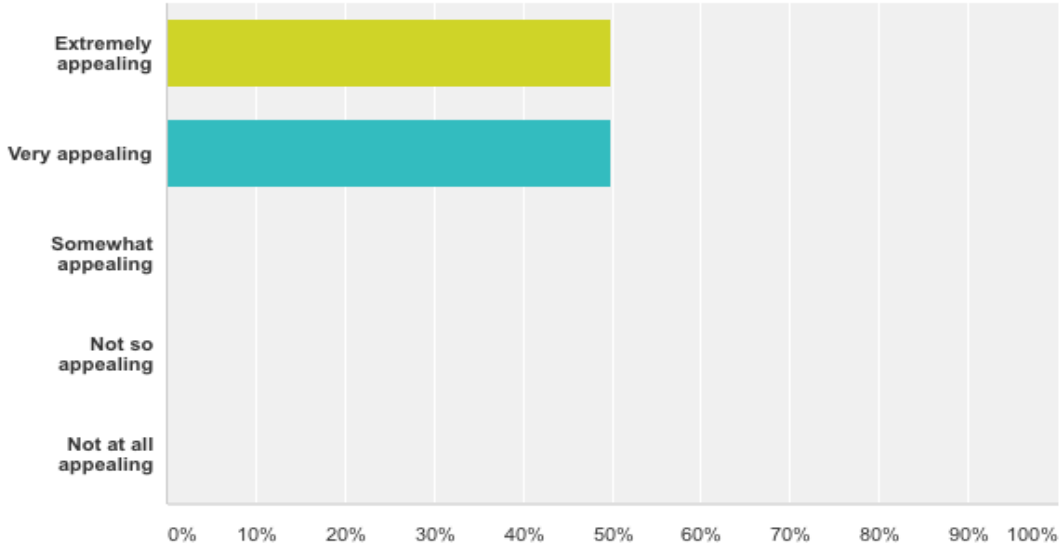


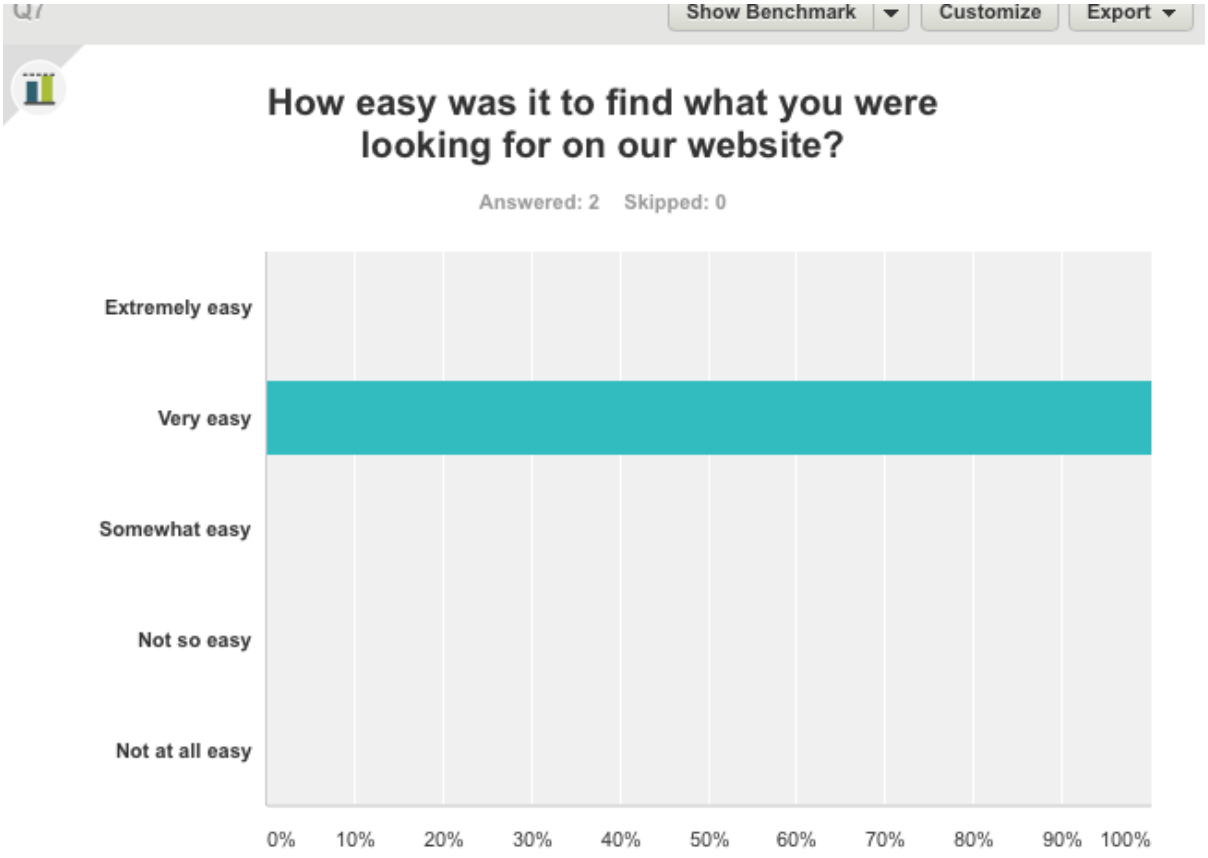
Q5

Show Benchmark | Customize | Export

How visually appealing is our website?

Answered: 2 Skipped: 0





The feedback that I have received from the users seemed really good, it showed that the users were really pleased with the outcome of the project and also found it really user friendly.

3. Conclusions

I have really enjoyed doing my project. At the start, it was a challenge trying to do a main project on your own seemed really scary but I have overcome those challenges and have taking on every obstacle that came my way and completed the project, I have learned many tools which I never had a clear understanding of before and plus learned new tools alongside that. One of the main down is that i haven't created the app for the website as it kept giving me errors and wouldn't work me.

Regardless of the down moments I had, it has been a good experience that I will long recall and expectation that it is a project that will have life span in some frame or another.

4. Further development or research

In the future, I would like the system to be used by larger companies and to further develop in other countries as well. I would also like to continue working on this project make some more changes into it add some more functionalities and also try get the application working this time it will be a great opportunity to do so.

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6. Appendix

1.1. Project Proposal

• Objectives

The objective of this project is to manage a huge inventory of an organization or to manage multiplicity of stock between a number of stores of a larger franchise. The major objective of warehouse administration system is to make sure reliable availability of supplies for clients. Warehouse administration system is directed toward owners of small to large stores and stock managers who are accountable of maintaining plenty of goods on hand in a retail or manufacturing business it is able to present reports on monthly basis. Warehouse administration system allows admin to produce an invoice for each in and out transaction. Warehouse administration system will be focused on speed and efficiency, Warehouse administration system makes the whole thing from inputting information to taking record easier. For the most part effective warehouse system products lift up your operating performance which leads to more output. It helps maintain reasonable stocks of material. It lowers the cost many companies spend huge amounts of funds for their warehouse. It provides regular and sensible supply to clients all the way through the adequate stocks of finished products.

Another goal is that it will concentrate for the most part on littler organizations where they simply need to check the standardized identification from their telephone which will make stock control less demanding for them and don't need to spend a ton of cash on electrical hardware's.

• Background

The reason I chose this project is because shortage of Warehouse administration systems in this industry especially for small companies. I wanted to create a system that assisted companies in both, keeping track of stocks and being able to get orders from the suppliers. This system I plan on creating will help all companies big and small to complete what they set out to accomplish.

The venture will have three sort of logins one for the administrator one for the business director and the distribution center supervisor.

Admin Login: will permit administrator to play out the accompanying errand.

- Add Products
- In & Out Transactions
- Add Supplier
- Add Dealer
- View Supplier/Dealer
- View Transactions
- Monthly Report
- View Stocks
- Billing of In/Out Transactions

Sales Manager Login: will permit Sales Manager to play out the accompanying undertaking of.

- In & Out Transactions
- View Stocks

Warehouse Manager Login: will permit Warehouse Manager to play out the accompanying undertaking of.

- In & Out Transactions
- View Supplier/Dealer
- View Transactions
- Monthly Report
- View Stocks

The majority of the substance will be put away in a social database. The application will have much usefulness to permit a portion of the introduced data to be altered. It ought to likewise be conceivable to upgrade the database with the altered data and to erase data from the database.

• Technical Approach

The specialized approach towards this project is to know the:

- Target audience — finding the right approach for the right reaction
- Positioning/Image — acknowledging the desired end-user experience
- Design — establishing the look of the project
- Content — managing the expectations
- Technology — identifying structural requirements to guide optimal execution

- Marketing — preparing the project for maximum exposure and success

• Special resources required

The resources that are required for this project are developer account, external data from online resources, i3 processor based computer or higher, memory which is worth1 GB RAM, hard drive which is 50 GB, monitor and internet connection. At a Software Requirement view the resources you would need for that would be windows 7 or higher, visual studio and SQL server.

• Project Plan

UNDERTAKING	IMPORTANCE	DAYS	START DATE	FINISH DATE	DUE DATE
Project Proposal Ratified	Medium	14	19/09/2016	03/10/2016	5/10/2016
Project Proposal Document	Medium	10	17/10/2016	21/10/2016	21/10/2016
Requirements Spec	High	11	31/10/2016	11/11/2016	11/11/2016
Project Prototype	High		13/11/2016	01/12/2016	02/12/2016
Mid-Point Presentation	Medium	1		15/12/2016	16/12/2016 17/12/2016
Showcase Materials	Medium				April 2016
Final Project Hard Copies Documentation	Medium			April 2017	April 2017
Software & Doc Upload	High			May 2017	May 2017

Project Presentations	High			May 2017	May 2017

• Technical Details

The technical details that I would be using during this project would be:

- HTML/CSS - Layout and design
- JavaScript
- Java (used on Netbeans IDE)
- Visual studio
- SQL server

All of these programmes will be used to implement the project.

• Evaluation

I trust that data warehousing system can have colossal influence in organizations everyday stock, being advised when stock is low can have an immense effect for organizations, keeping records and requesting new stock for organizations will profit them over the long haul as it will hold the organizations under control.
From this experience, I trust I accomplish significance and ideally promote my expert and instructive professions. This will help me acquire a wide range of aptitudes that I will use later on professions furthermore will ideally enhance me as a person.

Warda Obed 21/10/2016

_____

Signature of student and date

1.2. Project Plan

UNDERTAKING	IMPORTANCE	DAYS	START DATE	FINISH DATE	DUE DATE
Project Proposal Ratified	Medium	14	19/09/2016	03/10/2016	5/10/2016
Project Proposal Document	Medium	10	17/10/2016	21/10/2016	21/10/2016
Requirements Spec	High	11	31/10/2016	11/11/2016	11/11/2016
Project Prototype	High		13/11/2016	01/12/2016	02/12/2016
Mid-Point Presentation	Medium	1		15/12/2016	16/12/2016 17/12/2016
Showcase Materials	Medium				April 2016
Final Project Hard Copies Documentation	Medium			April 2017	April 2017
Software & Doc Upload	High			May 2017	May 2017
Project Presentations	High			May 2017	May 2017

1.3. Monthly Journals

Reflective Journal

Student name: Warda Obed

Programme: (BSc in Computing)

Month: 1 (September)

My Achievements

This month I had to think of a project related to my course stream which is Data Analytics. As I didn't really know what Data Analytics is I found it hard trying to research for a project as online didn't provide with many examples or any sort of assistance. After carefully researching for the couple of past weeks I decided to pick a project which was to build an informatics dashboard about the death rate in Ireland which will have different type of information example would be the sex, age, reason of death, family background, ethnicity etc.. but after carefully considering that it was not enough for a project. After taking that into account I decided to research again and come with an idea which was a warehouse administration system which will be a database that is able of managing huge inventories of an organization or can manage multiplicity of stock between a number of stores of a larger franchise. The major objective of warehouse administration system is to make sure reliable availability of supplies for clients. Warehouse administration system is directed toward owners of small to large stores and stock managers who are accountable of maintaining plenty of goods on hand in a retail or manufacturing business it is able to present reports on monthly basis. Warehouse administration system allows admin to produce an invoice for each in and out transaction. Warehouse administration system will be focused on speed and efficiency, Warehouse administration system makes the whole thing from inputting information to taking record easier. For the most part effective warehouse system products lift up your operating performance which leads to more output. It helps maintain reasonable stocks of material. It lowers the cost many companies spend huge amounts of funds for their warehouse. It provides regular and sensible supply to clients all the way through the adequate stocks of finished products. After going into my pitch with my idea it was considered as an idea but need to do more research as it was not enough.

My Reflection

After the feedback that I had received from the three lectures I will take them to consideration and try to perfect my project and add more functionalities and speak to my lecturer and get the help and guidance that I need later then I'll start my project proposal which will be due later in the month.

Supervisor Meetings

No supervisor meeting was held for this month as it’s the first month of the project and we weren’t assigned any supervisor as of yet.

Reflective Journal

Student name: Warda Obed

Programme: BSc in Computing (Data Analytics)

Month: 2 (October)

My Achievements

After my project getting acknowledged I've needed to consider what programs to use and how to begin building up my project. Doing the project proposal truly helped me and guided me on the best way to begin my project; the project proposal was effectively finished and submitted it on Moodle. For as far back as couple of weeks I have been doing some research to perceive how I can approach the project and I additionally began my Project Requirement Specification archive, which is expected on the eleventh of November.

My Reflection

After carefully inquiring about and talking about my project with my supervisor I would need to take in another program to include into my project. My supervisor gave me a few notes which can help me get more acquainted with it as it's another dialect to me so I can utilize it in some part of the project where I have to.

Supervisor Meetings

Supervisor Name: Muhammad Iqbal

Date of Meeting: 30/10/2016

Items discussed:

• Starting Project Idea and Project proposition.

• The most effective method to approach the project step by step.

• What programs to use.

• How to achieve it.

Action Items:

• Do research on how to achieve the project.

• Learn the new program language that's been provided.

Reflective Journal

Student name: Warda Obed

Programme: BSc in Computing (Data Analytics)

Month: 3 (November)

My Achievements

The project prerequisite detail was effectively completed and submitted on Moodle. Doing this prerequisite detail helped me and guided me in such a large number of courses from what my project will resemble the plan angle the format and the functionalities. This prerequisite determination prompted to me knowing where I can approach my project from and how to begin creating it precisely. For the recent weeks, I have been investigating more on how I can handle my project and make it as proficiently as could be allowed. I have begun preparing for my midpoint presentation for next Monday.

My Reflection

After precisely assembling the data on the most proficient method to begin my project I discovered that it will be a test to confront and to accomplish this project however after looking into numerous comparative sites and discovering and direction I will have the capacity to face this test and to finish this project. It has unquestionably widened my degree and opened the way to numerous more functionalities that I can incorporate into my project. At this moment, I am exceptionally sure about my thought and think with more work and becoming acquainted with my thought more, I can make this a fruitful project.

Supervisor Meetings

Supervisor Name: Muhammad Iqbal

Date of Meeting: 9/12/2016

Items discussed:

- Talked about what needs to be done before the midpoint presentation.
- Marking scheme of the midpoint presentation.
- What is accepted in the midpoint presentation.
- How the project is getting along?
- What needs to be completed before the midpoint presentation.

Action Items:

- To complete the documents before the midpoint presentation.
- And to start the practical side of the project.

Reflective Journal

Student name: Warda Obed

Programme: BSc in Computing (Data Analytics)

Month: 4 (December)

My Achievements

The technical report project was effectively completed and submitted on Moodle. After the midpoint presentation getting acknowledged I've needed to consider some certain things about my project and to add some few changes into it. Doing the midpoint presentation truly helped me and guided me on the best way with my project. The technical report was effectively finished and submitted it on Moodle. So far for the couple of weeks I have been doing some research to perceive how I can fix my project and consider the changes that needs to be added into it.

My Reflection

After the midpoint presentation, I carefully took everything into consideration and have started to think about the changes that I will inquiring into my project after the feedback that I have received in my midpoint presentation. Going to start implementing those changing as time go by with my project.

Reflective Journal

Student name: Warda Obed

Programme: BSc in Computing (Data Analytics)

Month: 5 (January)

My Achievements

Despite the enormous stress that was upon me due to my exams during the month of January I felt like this was a productive month. when my exams were completed I started to work on my project. I added more functionalities which I needed for my project which will be completed for the month of May.

My Reflection

After the exams were completed I started working on my project I encountered a lot of errors which made me really confused about my project hoping that it would work out for me. As time went by my project started to come together and I was getting let errors. For the following month I am hoping to get half of my project done.

Reflective Journal

Student name: Warda Obed

Programme: BSc in Computing (Data Analytics)

Month: 6 (February)

My Achievements

For this month, I was working on my project and adding the functionalities that I need for my project, I have completed half of my project which is a stress relieve. This project is really a challenge and I have encountered a lot of obstacles while trying to do it.

My Reflection

This month has really been a challenge trying to achieve the goals that I have set in order to do my project despite these challenges I managed to pass through them and really targeted the errors that I have been getting along with my project.

Reflective Journal

Student name: Warda Obed

Programme: BSc in Computing (Data Analytics)

Month: 7 (March)

My Achievements

For this month, I have been working on my project and trying to complete it for May, I also met my supervisor and discussed the issues that I have been having with my project also about the midpoint presentation which I haven't had the chance to discuss about with him. I have had the chance to take on the feedback that I received from my supervisor and put them into my project.

My Reflection

After this month, I have managed to take on the solution that my supervisor has mentioned to me and implement it into my project. As I got two months left to do

my project I am hoping that I will complete it by the deliverable date and have it completed to the plan that I have set up for myself.

Supervisor Meetings

Supervisor Name: Muhammad Iqbal

Date of Meeting: 2/3/2017

Items discussed:

- Discussed about the midpoint presentation.
- The feedback encountered in the midpoint presentation.
- The most effective method to approach the project step by step.
- How to go on about the project for the following months that are remaining.