**Institute of Technology Tallaght, Dublin**

**Department of Computing**



**Bachelor of Science in I.T. Management**

Title: Final project report(Group 14)

Project Name: InstantPics

Supervisor: Enda Lee

Date of Submission: 28th April 2019

Student Name: Ross Cooper

Student Number: X00145051

Student Name: Mark Kelly

Student Number: X00148371

**Table of Contents**

*Table of Contents……………………………………………….1*

*How we contributed to the project……………………............2,3*

*Introduction…………………………………………………………4*

*Iteration 1 Report……………………………………………….5,6*

*Iteration 2 Report………………………………………………….7*

*Iteration 3 Report………………………………………………….8*

*Reflection…………………………………….…………………….9*

**1**

**How we contributed to the project**

**Mark**

**HomePage**

For the homepage I added a bootstrap carousel that will cycle through a couple of images to display an example of the images you might find on our website.

          I also added a Gallery to display all the products that are on sale and given the ability for customers to view the image in a bigger size and the ability to add images to their basket.

**Contact Us Page**

For the Contact Us page I made a contact form which will ask customers to enter their name, email and their message they want to send to our website administrators.

       A responsive FAQ to save customers from sending queries for the same questions over and over again, if a user sees a question that relates to their own, they can click on it to see the answer.

**Products Page (for Admin)**

Made a products table to show all the products that have be added to the website and allowing admins to add/edit and delete products.

     Made a category table to link with the products table so an admin can choose a category and only products from that category will appear in the products table.

     Also made it so when an admin is adding a product, they can add an image with it which will appear in as a small thumbnail in the products table.

**Current Admins Page & Table (for Admin)**

There is a Current admins page that only shows up when a user is logged in as an admin, this page has a table that will show all the admins and give admins the ability to add, edit and delete admins.

**Connecting and Testing Database**

Connecting our project to an oracle database so that we can use command h2-browser to view the database which will store most of the information of our project, we tested the connectivity by adding products

**2**

**Ross**

**About Us Page**

Created an about us page that show users who the team members are and says a little on each member. The about us page also tells the user what service our website provides explaining what our website does.

The about us page also has flip admin cards taken from the bootstrap website, that displays all members, a picture of each member and a little bio on that member.

**User Account/Login**

From the home page users can visit a sign-up page that allows users to create an account on our website to use while there here. The system keeps track of this users account so next time they visit they can go to the sign in page and sign in with their details.

**Users**

Created two types of users a manager user, which has the privilege to update, rename, add or remove products to and from the products page. Can also see the pages that allow the manager to see current registered users and registered admins.

The customer user can access all the standard pages and has no system or object privileges

**Navbar & Footer**

Although we both contributed to the main page, I worked on the footer and the navbar bar, the footer has links to various social medias which were not required but easily implemented if our report required it. The navbar that sits at the top of the page has links to all our pages so users can navigate around the site with ease. The navbar also updates depending on the user, the manager users can visit the registered customers and current admins page which cannot be seen by regular users.

**Iteration Reports**

I ensured that all our iteration reports where well formatted and covered all the necessary details according to the iteration assignments.

**Azure Dev Ops**

I made our azure dev ops and ensured that it was well formatted and projected where our current work was and reflected the stage we were at. Throughout our project I continually updated work items when myself or my team completed or moved onto the next stage of a work item.

**Registered Customers**

There is also a Registered Customers page for admins that will show all the information of customers that have signed up and have an InstantPics account, admins have the permissions to add, edit and delete customers.

**3**

**Introduction**

Welcome to our report on our year 2 project, for are year two project we were tasked with working in groups to design, code and produce a fully functioning website with several key features.

The early stages of our project were design focused, gathering in our group to plan and design how we want our website to function and look. These early stages involved a lot of brainstorming, writing ideas down on paper and discussing what would work best. After about two weeks of designing and discussing ideas we concluded that our website would be a photography website where users can come and download images for their own use from one centralized location on the web.

Now with our idea, we knew we could product a very visually appealing website, the final draft of ideas included a shopping cart where users can add photographs, to a cart to purchase in bulk , a contact us page displaying contact information about ourselves, emails and phone numbers , an about us page that gives users an idea of what our website is and does, sign up page that allows users to create an account to use while on our website, a fully functional admin user that has different privileges to a regular user and a user review system that allows users to rate photos and leave comments. This was what our iteration one report was based on and what we wanted to do going forward.

Now at this stage in our project it is important to mention that our group dropped down from a three man group to a two man group so we carried on going with our new group setup, it was at this stage we decided with advice from our supervisor that dropping the customer rating and review system was best as it would require too much work for our new group of two people. This leaves us at our iteration two report which reflects what we had done and what we were still working on at that point. Iteration two reflects what we thought at the time we had to prioritize, and what direction we were heading with in our project, at this stage we had a good routine meeting regularly up as a group and with our supervisor, communication with the supervisor and within our group was good as well.

This leaves us at iteration three, which shows our final contribution to our project. At this time, we had most of our project finished and this iteration shows that

4

**Iteration 1 Report**

**Mark**

During this iteration, I created the final draft of the entity relationship diagram (ERD) which is a graphical representation of the information systems that depict the relationships among people, objects, places, concepts or events within our web application. This will help us when dealing with our classes and the database of our web application.

Image Upload

Made an option to upload an image when adding a product to the products table, this image will be saved and scaled to fit and show up in a small thumbnail beside the products ID, Photographer, Description and Price. This page is only visible to administrators.

Admins Page

I also made a page that is only viewable to admins, this page will show all users that are currently registered as admins and all their information in a table like our products table for admins. Admins can then add or delete admins and also edit their information.

**Ross**

For the first iteration I worked on the signing in and signing out features for the website, allowing users to log in to their account on the website.

Sign In

From the main page of the website there is an indicator asking the user if they want to sign up or sign in, clicking sign in, the user will be asked to enter their email and password. If the users email and password doesn't exist an error will occur stating the email or password entered is incorrect. If their email is correct, they will be returned to the home screen, where the home screen is optimized to the user, if there a manager, public or admin user.

Sign Out

From the main page users can click on an indicator asking the user if they want to sign out, clicking sign out the user is returned to the main page and logged out of their account.

5

Sign Up

At the main page there will be an indicator at the top of the screen asking the user to sign in or sign up, clicking sign up the user is asked to enter an email and password, then the user will be asked to re-enter there login details, the system then checks to see if both passwords are the same, if both passwords are the same the system checks if the email has been used, if not used, it creates a user, the user is then greeted with a welcome message and lands on the home page

**6**

**Iteration 2 Report**

Mark

Contact Us Page

Since the last iteration I have added a Contact page that will allow customers to contact the web application managers and administrators, customers can get to the Contact Us by clicking on the link in the navbar and that will bring them to a page that. Customers will be presented with a form that will require them to enter their personal information (Name, Email Address), Lastly, they will need to enter the question that they want answered (“I accidently bought two of the same items”). They will then submit the form and it will be sent to an admin or a manager and they can take the email and reply to the query via email.

FAQ

I have added a “Frequently Asked Questions” feature to the Contact Us page so that users can check over these frequently asked questions and see if one of them match the same question that they need the answer to which will make the feedback from customers much easier to handle as there shouldn't be as many Question coming in. Frequently asked questions may be something like “How do I cancel an order?” or “Can I be refunded?”.

Home Page

I plan to redesign the homepage to make it more appealing to users by adding more colours and other appealing aspects to it and also make it so when a product is added it automatically shows up on the homepage of the web application on a bigger scale so that it easier for users to see.

Ross

Sign Up

Going forward I want to get the sign up feature complete which would allow visitors to our website to click on an indicator on the main page which would prompt the user to enter their email and password, then the user is prompted to re-enter there email and password, if there both the same then the system checks to see if the email is in use if not then the user is greeted with a welcome message and is redirected to the home page.

Navbar & Footer  
During this iteration I also updated our navbar and footer to make sure every link successfully linked to the right pages and adding the ability to link multiple social media account to the footer of the web application. In our case we have only put the link to our Github in out footer just to demonstrate that it works.

**7**

**Iteration 3 Report**

**Mark**

**Home Page Carousel**

For this iteration I added a bootstrap carousel to the homepage that will cycle through a few sample images that you might find on sale on our website. These images are sample images from multiple categories to try show the variety on our website and to try catch the interest of customers will all different interests. A customer might not like nature images, but the sports image might encourage them to have a look through our images on sale.

**Home Page Gallery**

I also added a homepage gallery that allows us to display all the products that are on sale in a gallery, each image will have a short title and description and the options to view the image on a bigger scale and to add the item to a shopping cart. There are 3 images on each row, each image has a height of 500px and a width of 237px and is surrounded in a border with a bit of text underneath the image.

**Ross**

**About us Page**

My last contribution to our website was an about us page, the goal of this page was to give any visiting users, a more personal look at the team, the page includes information on our team members, and says a little about each member.

**Team Member Flip Cards**

On our about us page there are two flip cards of the two web application administrators, which has an image of the person and a small description on one side and then on the other side there is a few sentences that go into more depth on the individual. The card will flip when a customer hovers over the box containing all the information.

**Customers Page**

I also created a page that is like the admins page but this one will show all the customers that have signed up and have registered InstantPic accounts, all the customers information will show up in a table and customers can be added and deleted from this table. Customers information can also be edited on customers request. This page is only visible to admins.  
  
  
  
  
  
  
  
8  
  
  
  
**Reflection**

Looking back on our project we enjoyed it, it was a change to our regular continuous assessments and exams, having the responsibility of managing our own work and entire website with no direct help was an experience that will give us all that extra bit of confidence going forward in the industry and it also taught us that we are excellent team players and work well in groups a vital skill we needed to get to the end of our project.

Thinking back to when our group was set back from three people to two, we, the remaining team members feel we reacted to this the best way we could, putting in extra work and getting in touch more often with our supervisor.

These are the more personal aspects of the project, involving people skills, working together to achieve a final goal, which we believe we handled fairly well.

Now we’ll reflect on the practical part of the project the coding, write ups and building the website. These parts of the project we look back confidently knowing we gave it our best, although at the start we were not the best web developers we feel that by the end we had become very familiar with the java play framework and website building as a whole. With help along the way from useful sites like W3schools and getbootstap.com and input from our supervisor we feel we could confidently replicate the work we done during our project or something similar.

Upon completion of our project we compared our iterations to the final product, iteration one and two show our ideas and work that had been half complete at the time they were written, and also shows work already  complete, we feel this shows how our project developed over time with the core ideas remaining from the start. Iteration three reflects the final project best as we had finally settled on a final design. We are happy now that the key functionality that we set out to implement into our website we achieved, this functionality includes a login system for users, admin users with privileges and a fully functional database connected to the websites product page.

9