1 Introduction

My web-app is a guide for the MMO game Black Desert Online. Within this web-app you will find multiple pages of guides which cover the games classes, life skills provinces. I have created pages where the user can interact with links to external sites and web forms for the user to get in contact.

2 Design

When designing this web app I planned it out using wire-frames to see how it would look before starting development.

2.1 Wire-frames

When creating my wire-frames for this web-app, I thought about which colours how the layout would be used. I decided that I was going with a basic colour scheme using the bootstrap inverse colours, which are the defaults.

For the layout, I put a bit more thought into designing. I did not want the page to that the user would be interacting with to be cluttered with information so I decided to pick images that looked appealing and information that was necessary for that page to be shown. *(Figure 1 to 7 in appendix)*

2.2 Home

This page is going to be the landing page that the user will see once they go onto this site. From here they have options to either go to; about; guides; and contact. On this page there is information from what the user will find when exploring on this web app, they will also see a twitter feed from the official Black Desert Online twitter feed.

2.3 Contact

On this page the user will see a contact form which once filled in will send their name, email message to the sites email. This contact form is made using PHP.

2.4 About

Once on the about page you will find information about the game Black Desert Online a button that will take the user to the official Black Desert Online web-page.

2.5 Guides

This page is has the biggest source of navigation as it acts as a hub from where the user can access all classes information, life skills provinces which all play a major act in the game BDO.

2.6 Classes

On every class page you will see a header with the class name, the class logo to the right of the page, buttons which once pressed will scroll the user down to that part of information most importantly the information itself.

The information contains info on what the class is, its rating, what load-out the player can use its play-style.

2.7 Life Skills

On every life skill page you will see a header with the skill name, the skill logo to the right of the page, buttons which once pressed will scroll the user down to that part of information most importantly the information itself.

The information contains info on the skills itself telling the user what it is about, money making info if its part of the skill any additional information that that specific skill has.

2.8 Provinces

On each province page you will find information, province name its logo. The provinces don't have much information as the world is a massive exploration mission so not all places on the map has been fully explored.

2.9 Navigation

2.9.1 Home
When you first land on the web-page you will see links to; about, guides contact. The about guides navigation is the main links that user will find no matter where they go on the web app.

2.9.2 About
From the about page you will once again see the navigation bar at the top but you will also see a button which will take the user to the official Black Desert Online web-page.

2.9.3 Guides
This page consists of the most navigation that this web app offers as it acts as a main hub from where the user can access every guide that the web app offers. You will find links to all classes playable in game, all life skills accessible in game all provinces that have been added to the game since release.

2.9.4 Error404

I took the advice which I received from the first coursework and created a page where the user can see the same layout of a working page, they will see the navigation footer but will also see a piece of information saying what has gone wrong and links which all will redirect the user to their choice.

2.10 Navigation design

I tried to keep the navigation as simple as possible so I decided to put the main pages on the navigation bar which is shown on every page. I wanted to keep the layout user friendly so I picked the bootstrap navbar as it was the best course of action for this web page as I wanted it to be responsive.

Each page however will contain links which I felt where needed so on the about page there is a link to the official site as I feel that since this is a guide it would be good for users to have a direct link to the actual site if they wanted to find out how to buy the game or access any of the discussion forums. The guides page contains a link to every guide in a layout which I feel is an acceptable look when creating a page of just links. I used the white-space to my advantage I feel as I was able to create a space between each option instead of just having all the links cramped into once area of the page. I felt that this was a friendlier and cleaner design instead of listing all the links in the navigation bar for the user to choose.

2.11 Page layout

The pages which are available to the user all have the same look to keep consistency. Since I have a lot of pages which contain information about different classes, skills provinces I wanted to make them look the same so when the user is switching between pages the information that the user would be looking for is where it was if they came from a different guide page, I didn't want to change the look of each page constantly designing a new look if the one I have picked works. I was hoping that keeping each page consistent would make developing this web app a lot easier and quicker.

3 Enhancements

Whilst developing this coursework I feel that I could have added more features to my web app using some packages but I do feel that for what I wanted to create I have got my base idea done.

3.1 Things to add

Search bar - I would like to add a working search bar so that a user could search for a guide and it would show the result which will take the user to that page instead of going through the guide hub.

Accounts - When developing I wanted to create an account system but when trying to get the different packages to work I kept running into errors with permission denied so I had to put this on hold and sadly never got round to adding it.

Forums - When I had a working account system I was wanting to add a forums discussions where users who have an account can make posts where other users could reply and have a discussion about any subject.

3.2 Things to improve

Contact form - When testing this form I found that it was not sending the required information to the email I wanted it to be sent to. However it says it has sent when the user presses submit. I would like to find out why this is like this and fix it.

4 Critical evaluation

I feel that throughout this web app there are things that could be improved if I had spent maybe more time researching features as I did keep running into permission errors when trying to install certain packages such as SQLAlchemy.

4.1 Things that worked well

Navigation - I was able to create a working navigation where the user could easily switch from page to page with running into any problems.

Error404 page - Since taking the advice from the first coursework where I had a blank page with an image saying error404 and a reason why, I have improved this with a page that contains links and the base navigation which the user sees on all pages to give it a more professional look and feel.

4.2 Things that worked poorly

Contact form - I ran into problems where the form was clearing the information once the user pressed submit as it was completing the process of sending the name, email message but when checking the email it sends to there is no email.

5 Personal evaluation

Whilst developing I ran into problems that I was able to fix but I also ran into problems where I could not fix or I did not have enough time to spend to try and fix.

5.1 Things that I could fix

Extend When using this function to get HTML from my base.html file it was showing the html but was not showing the bootstrap so my navigation was styled. I fixed this by looking over the notes and the documentation and found that I needed super().

5.2 Things that I could not fix

Denied permission to using certain packages âĂŞ When trying to install packages such as SQLAlchemy I kept running into permission denied. I tried to find some work arounds but even then I was still running into permission denied issues.

Broken pipe - I tried using the fix that I found and discussed in my past report but when trying it I could not get the fix to work.

6 Overall performance

I feel that with this coursework I have managed to build my base web application but I do also feel that I could have spent more time trying to get my account system to work at least.

I however have learned some new skills whilst working on this web app for example with the first coursework I never really looked into working with the extent function at all and this time I looked into the documentation for it and I feel that I have managed to understand it better.

I have also learned to work with databases, when testing my account system I was able to get a SQLite3 database to work but not to where I wanted it to push out data and get data from a user.
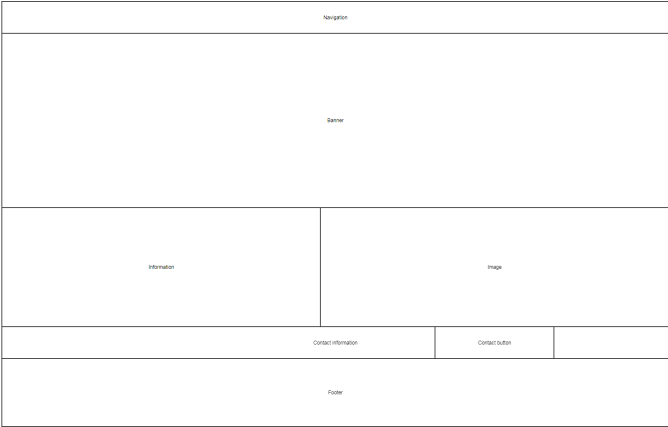
7 Appendix

Figure 1: **Home wire-frame** - The layout I want to create for the home page.
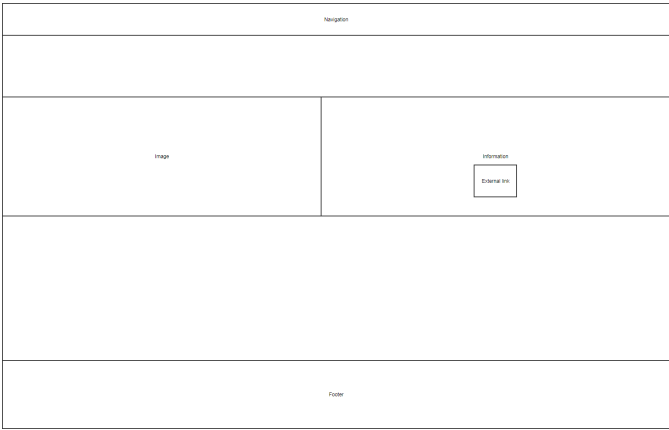

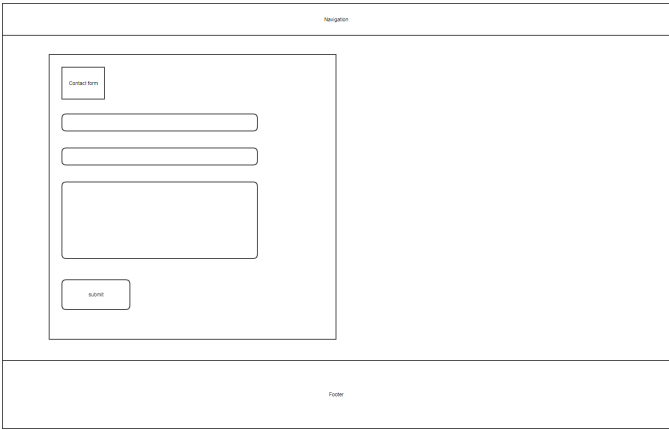Figure 2: **About wire-frame** - The layout I want to create for the about page.

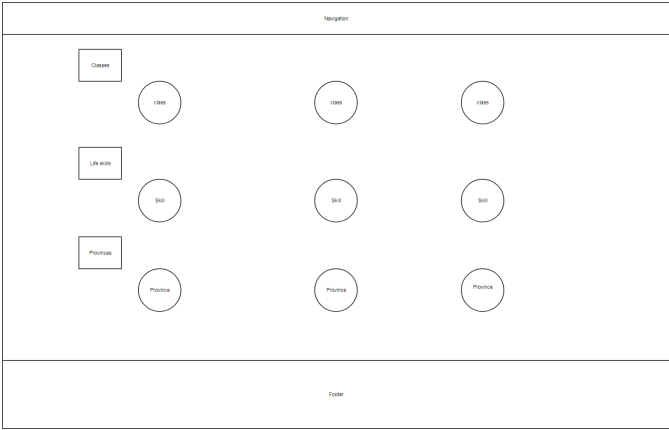Figure 3: **Contact wire-frame** - The layout I want to create for the contact page.

Figure 4: **Guide wire-frame** - The layout I want to create for the guide page.

Figure 5: **Class wire-frame** - The layout I want to create for the classes page.

Figure 6: **Life Skill wire-frame** - The layout I want to create for the life skills page.

Figure 7: **Province wire-frame** - The layout I want to create for the provinces page.