Coursework 2 Report

Kristelle Marie Cervan

40323364@napier.ac.uk

Edinburgh Napier University - Advanced Web Technologies (SET09103)

1 Abstract

The purpose of this report is to discuss how Advance Web Technologies Module has helped achieve a working Python Web Application. The web application is called Vegan Recipes. Introduction of the website will describe the aim and objectives of the web app. Enhancements and features that can be added are also will be tackled in this report. Critical Evaluation which explains the features that is felt that needs to be work on more and the reasons why. Personal evaluation will be about the reflection of what was learned, and challenges that was faced and how this is solved.

2 Vegan Recipes Web Application

Keywords – Vegan Recipes Advance Web Tech,Coursework Report, set09103, Cervan, 40323364, Latex, Github, Python, Project

3 Introduction

The purpose of the project is to show an understanding of Python Flask micro framework by creating a web application for an online catalogue. The chosen catalogue web app is going to be about vegan recipes.

These days veganism or plant based diet is a growing trend. Unfortunately, it is not easy to follow this diet as there are still limited options. Morever, beginners are finding it hard what to cook for their meals. A decision was made that a Vegan Recipe website will be beneficial to starters or beginners of this diet. The aim of this project is to help people to start with their plant based diet by making a vegan recipe web app. Additionally, an added knowledge for different kinds of recipes.

The Vegan Recipes web app is a collection of different vegan dishes categorised by Breakfasts, Mains, Sides and Desserts. The web app will have login button for the admin. This will allow the admin to add edit and delete recipes to the website.

The website should have Navigation menu, recipe pages, login page for administration and Add Recipe function, and Gallery. Out of scope are Delete and Edit for recipes.

4 Design

The web app was designed in a very simple. Bootstrap is used to create the navigational menu and CSS styling was applied to make it look presentable and simple. This was used for the image gallery and footer. Flask is a python framework that was used to create the web app. Sqlite3 database was also used to pull information to show the content of the website aside from the images. It was chosen because it is simple and straight forward although not the easiest. This was used to store the name of the recipe, ingredients and instructions.

The theme of the website was warm and greenish to make the green represents plants for plant based diet and warm tones like orange brown for background of the text to make it more colorful and complements the dark green of the navigational menu. The layout is very simple and made consistent, users will find it easy to navigate the website and less confusing. all the title are in same font and while as for the body text and menu are both the same. CSS was mostly used to design the web app and a bit of bootstrap and JavaScript was used for the navigational menu. It was made sure that there were no white spaces in the web app so no element is heavier than the other.

The names of the hierarchy URL is relevant to the content of the pages on the web app, as this would make sensible URLs and addresses. Sessions where used in for administrator log in so that when the admin logs out any user will not be able to go to the account page of the administrator.

5 Enhancements and Features

The Vegan Recipes web app have a very simplistic design, it is categorised from breakfasts, mains, sides, and desserts. There are alot of improvements that can be added in the future.

The design of the web app could be improved. Adding animations while interacting with the navigation menu, perhaps an animation or a hover over style. There could have been an indication that the user is in a certain web page by using an active link style to the navigation menu.

More recipes could be added in the website. A filter function would have been more useful as well. Filter option will help users to find a certain type of food recipe such as Pasta dishes, Rice Dishes, Noodles etc. This will help the users

to narrow down their search, so that they can find their desired recipe in a short period of time. search by calories and cooking time would also be good.

Currently the website have a log in function for the admin but, edit was not added and delete button was not functioning properly. This will be solved in the future and will be added. This will help the admin to edit information of the recipe and make changes. Delete button, will allow the admin to delete recipes when needed.

A search function could be also added, so if users are looking for any food it will redirect them to related recipe. This would help the user to find certain items based on their types, kind of fabrics, sizes, and colors.

A Search function would benefit the users as this would enable them to search for their desired item, with the items being presented to them immediately by typing in the search bar. A checklist would be ideal for any users, so that users can just tick the boxes as they follow the recipe when they are viewing the page. When the Administrator is logged another thing that needs to be changed in the future, to log out button instead of log in. This will help the admin to know if he or she is logged in or not.

6   Critical Evaluation

The features of the web app such as navigational menu worked very well on the web app. This enables the user to effortlessly navigate around the web app by simply clicking a selected menu to go to their desired page. The fonts are easy to read and have been chosen to ensure they are accessible to any individuals with visual impairments. Choosing the most suited layout, font size, and colour schemes throughout the web app.

The layout of the web app was simple and straight forward, the fonts on the menu are clear and concise. Colorful theme was chosen for the website to make it more appealing to the users and colorful food images are also used.

There were couple of issues issues that came across during the development of the web app. Log in function was not working properly but this was solved after a couple of research online. Additionally, issues with the delete button was due to lack of time and were not able to add an edit function as well. There are times that the footer was not positioned properly but was solved after few tweaks in the css. Log in still can be seen even if the administrator is already logged in. It is believed that this must be because of the session but did not have time to fix it due to workloads or other features.

To summarise, a more functional web app would have been better for the Vegan Recipe Website application. The web app could have more features such as search and filters. The web app feels a bit incomplete without these kinds of functions. Administration account should have delete and edit but failed to complete to implement these due to lack of time and also the log in in menu should have been changed to Log out when the Admin is loggedin.

7   Personal Evaluation

Overall, I believed that I have learned and gained a lot of information and skills, whilst building the web app coursework. I gained skills on how to use python flask for the coursework web app further, which I was still lacking beforehand. The workbook has really helped me to apply and build a lot features on the web app. I have learned how to use Python Flask furthermore which I believed will be very useful and important skills to possess in the future. In addition, I learned more about Sqlite3 which I used to store data of the Recipes such as the names of the recipe, ingredients, and instructions. I also learned encrypting information to make a good and secured password for the users, which I will be using in the future.

After struggling so much on the login function before, I had very small amount of time to add new functional features which I was not happy about. Moreover, the design of the website I had a bit of problems on some elements not placed on the right place but this was fixed eventually. In the future I will make sure to start at the easiest part and work my way up to the most complicated functions. This will help manage and finish at the time when everything is working as I wanted it to be. Although, I listed what I needed to do, I started where I should not have which is starting with the most complicated part of the website. I am determined that I will plan things carefully in the future, so that I can meet all the basic functions of the website depending on what it is for.

I believed that I have performed very well and met the most of the requirements for the web app project. I made sure to read and understand everything on the assignment document. I also made sure to ask questions for the problems that I was not sure about such as: what the web app should be like in terms of functions and what should be included. Lastly, lack of time was another problem for me, as I am working and also finishing up on other courseworks. This made it harder to manage the time of which to work on first. Hoping this will improve in the future.

References

Google for images and descriptions

https://www.google.co.uk/webhp?hl=en&sa=X&ved=0ahUKEwiJ5uSasIzXAhWLVhQKHaW4DmAQPAgD