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Project Plan (3% of final mark)

Part 1: Describing the web app

- Listing and description of each separate page on your web app.

For this project I will be aiming to have 5 pages.

- I. **Homepage** – this page will have my introduction to the website with some information about the web application and the links to navigate the website.
- II. **Recipe Display Page** – this page will display the recipes, with each recipe having an image, the list of ingredients, the preparation instructions, and the serving instructions. I will get these details from the CSV files using the Flask server and display using Jinja2 templates.
- III. **Recipe Upload Page** – this page will contain a form for users to put the details of their new recipes in and upload it to the web app. The form will have a field for an image, ingredients, preparation instructions, and serving instructions. This page will only allow the upload of an image file of only image formats.
- IV. **Recipe Delete Page** – this page will allow the user to remove recipes from the web app. It will list all the recipes and provide a delete button beside each one so when the button is clicked the recipe will be removed.
- V. **Search Page** – this page will have a search bar the user can use to enter a recipe name and find a relevant recipe. I will use Pandas data frames to implement the search functionality.

- Description of which part of each page will be part of a template and which part will be generated dynamically

For this web app, the templates generated by Jinja2 will be used on all the pages to keep it consistent and looking the same, whereas the recipe details that are generated by the CSV file will be the dynamic elements.

- Explain how navigation will work on your web app (which links will be available on each page)

For the navigation of the web app I am thinking of putting a navigation bar on top of each page that will have the links to all the pages, and highlighting the current page.

- Which level on the rubric you are aiming for

I would like to aim for the highest part of the rubric (90-100%) and work with Bootstrap to manage the styles and deploy the web app on suitable platforms like Python Anywhere or AWS. However, if I am unable to get this to work, I will still be aiming for the next highest mark possible (80-90%).

Part 2: Describing the technical requirements of the web app

- Listing of format for CSV file

The format for my CSV file will contain columns for the recipe name, image link, ingredients, preparation instructions, and serving instructions.

- Listing of any optional technologies you plan to include

Currently the only option technologies I plan to include is the use of bootstrap to style the website and make it responsive for a good user experience.

- Deployment Plans

I am hoping to deploy this web app on Python Anywhere so it will have an easy way to host Python and Flash web apps.

- Listing of all static files (html, css, images) you plan to use with your web app

The static files that I will be using are:

- HTML files for each page (home, recipe display, recipe upload, recipe deletion, search)
- CSS file for styling the HTML elements
- Images for the recipes

- Additional Resources. Go and find 3 additional resources and list them here. These can be tutorials, or webpages which you will use to learn more about creating web apps with flask.

The additional resources I will be using are:

1. Flask Web Development with Python Tutorial - <https://www.tutorialspoint.com/flask/index.htm>
2. Deploying a Flask App to PythonAnywhere - <https://help.pythonanywhere.com/pages/Flask/>
3. Creating Web Applications with Flask - <https://blog.miguelgrinberg.com/post/the-flask-mega-tutorial-part-i-hello-world>