ReciPlan

Project Plan

Version 2.2

CMSC 495

For: Dr. Hung Dao

Due: 6 March 2022

Authors:

Team 6 – Josh Coe, Danita Hodges, Scott McClure

Revision History

Revision	Date	Author	Changes
1	21 Jan 22	Scott	Initial creation of document
1.1	22 Jan 22	Josh	updated system specification and software version control
1.2	22 Jan 22	Danita	Added logo, modified requirements specifications
2.0	29 Jan 22	Scott	- Updated project schedule to remove all TBD entries with proper information - Added requirements to sections 3 and 5 of the schedule
2.1	30 Jan 22	Danita	Formatting and review
2.2	1 Feb 22	Josh	Updated systems specifications to include professor notes

1. Requirement Specifications

ReciPlan is a web-based application that offers users the ability to browse a library of recipes and adjust the amount of each ingredient based on the number of servings entered. The system also allows users to input and submit their own recipes. Program functionality includes the following: automatic ingredient adjustments based on the desired number of portions, the ability to convert between imperial and metric measurements with the click of a button, ability to scale measurements when needed, ability to show and hide recipe instructions, a shopping list that can be populated by the user via check boxes in the recipe ingredient list. Stored recipes and users can also be added and removed. The application will be allowed to be viewed by guests with limited access.

2. System Specifications

a. Development Platform
The back-end of this program will be created using Python 3.8.10. The Django 4.0.1 framework will be used to make the process quicker and easier. SQLite will be used as a database solution and is fully integrated into the Django framework. Front-end development will be programmed in HTML/CSS. Development environments being utilized are VSCode and Notepad++. The hardware requirements are those required for Python 3.x: Modern OS (Windows 7 or 10, Mac OS X10.11 or higher, 64 bit, Linux RHEL6/7 64 bit (others possible but must check library compatibility);x86 64 bit CPU (intel/amd); 4GB RAM; 5GB free disk space)

b. Operational Platform
The website will be hosted using DigitalOcean. The server is a 64-bit Ubuntu 20.04 distribution. The system is set up with 2GB RAM and 60GB disk space and a 2 core 2.7 GhZ Intel Based

Processor. This system is re-sizable allowing for further website functionality in the future if needed. Users will require an internet connection on any medium (PC, Mac, Android, etc) that has a web browser. Chrome is the optimal browser, but the app shall be operational on any common browsers such as Firefox, Safari, and Microsoft Edge.

3. Software Management

Software version control will be accomplished using GitHub. Each team member will push their respective code to the GitHub repository where it will be the responsibility of a different member to review the code prior to committing it. Once commits are merged Josh will pull the updated master branch to the server and deploy it with NGINX and gunicorn.

4. Project Schedule

Task	Duration (days)	Start Date	End Date	Personnel
1. Project Requirement/Plan Documents				
a. Writing	2	19 Jan	21 Jan	Scott
b. Team Review	1	21 Jan	22 Jan	Danita/Josh
c. Team revisions	1	22 Jan	23 Jan	Danita/Josh/Scott
2. Project Analysis				
a. Context Diagram	3	26 Jan	29 Jan	Scott
b. Inner Workings	3	26 Jan	29 Jan	Scott
c. Team Review	2	29 Jan	31 Jan	Danita/Josh
d. Team Revisions	1	31 Jan	1 Feb	Danita/Josh
3. Project Design				
a. Class Diagram - Input - User Management - SQLite DB - Recipe Creation - Search - Measurement Conversion	3	2 Feb	5 Feb	Josh

- Yield Conversion - Grocery List - Django Administration b. Sequence Diagrams c. Team Review d. Team Revisions	 3 2 1	 2 Feb 5 Feb 7 Feb	 5 Feb 7 Feb 8 Feb	 Josh/Danita Danita/Scott Danita/Scott
4. Project Test Plan and ICD a. Test Plan b. Interface Control Documents	 3 3	 9 Feb 9 Feb	 12 Feb 12 Feb	 Scott Josh/Danita
5. Implementation and Testing a. Input b. User Management c. SQLite DB d. Recipe Creation e. Search f. Measurement Conversion g. Yield Conversion h. Grocery List i. Django Administration	 2 2 2 2 2 2 2 2 2	 23 Feb 23 Feb 23 Feb 25 Feb 25 Feb 25 Feb 28 Feb 28 Feb 28 Feb	 24 Feb 24 Feb 24 Feb 26 Feb 26 Feb 26 Feb 1 Mar 1 Mar 1 Mar	 Josh Josh Scott Danita Scott Danita Scott Danita Josh
6. Final Deliveries (Code, Binaries, Test Data and User's Guide)	1	5 Mar	5 Mar	Josh