

# **Progress Report**

**- Increment 1 -**

**Group #8**

## **1) Team Members**

Alex Jeannite

John Fleming

Justin Nahorny

Mason Joy

## **2) Project Title and Description**

RecipeBuilder: The project will be to develop a web application and corresponding databases with the purpose of storing, listing and organizing various food recipes and their ingredients. It is intended to provide user functionality through tracking a collection of their favorite recipes and an inventory of what food they have on hand. Through this, users will also be able to discover recipes similar to those that they already enjoy or new recipes that satisfy certain dieting requirements like keto or vegan.

## **3) Accomplishments and overall project status during this increment**

In the span of this first increment we have implemented the database and a primitive version of what we are aiming for in terms of the framework. For this increment, using Flask, we have gotten a basic database created and connected to html pages through a controller application. The current status of the project is very primitive however reflects the main functionalities that we plan on implementing.

## **4) Challenges, changes in the plan and scope of the project and things that went wrong during this increment**

The major challenges that we faced during this increment was finding a suitable framework to control the site with. Preferably we would have implemented the controller in C++ however due to time constraints we ended up going with Flask in python due to its less complex initial setup. Another challenge we faced was implementing a unique ID system for recipes, this will be used in later setups to quickly reference recipe entries where referencing a recipe name is not suitable, currently we have opted to not functionally use the ID system and hardcode database entries with the same ID for this increment, recipes will be referenced by name only.

## **5) Team Member Contribution for this increment**

Alex Jeannite

1. Contributed to discussion on future plans for the next increment, with a focus on programming around APIs to add functions like the ability to pull recipes from other websites.
2. Alex took lead on the R&D Document, acting as the final author for the document itself and determining how data, diagrams and decision on requirement priorities.
3. Alex contributed to discussion of what languages should be used, largely focusing on more advanced systems we plan to focus on in implementation 2 and 3 such as the use of API's for more advanced functions like using user location and pulling recipes from other online databases.

4. Alex worked on the html implementation and fixing minor bugs found in the initial implementation and the interactions between app.py and the html pages.
5. Alex contributed to the development of a script and ideas for future implementations discussed in the demo video.

#### John Fleming

1. Contributed the video link and discussion of future functionalities to be added in the next increment. Focusing on the needs of the database frameworks, specifically the issues in needing Steps and Ingredients to be stored in more advanced systems than simple text blocks bso that we can implement database interactions and more organized methods of output.
2. Contributed to discussion of functional requirements.
3. John contributed to discussion on what languages should be used, focusing on C++ but we ultimately decided to begin with a python based implementation while still exploring what aspects would be more efficient to code in other languages such as C#.
4. John focused on the framework of the database, designing the specifics of the recipe table found in setup.py
5. John will take the lead on hosting the video for ease of creation while other group members contribute to script creation and planning discussion of what should be present in future implementations.

#### Justin Nahorny

1. Justin will take the lead on completing the **progress report**. He contributed to the main sections of the report, the description, accomplishments, challenges and plans for the next increment.
2. Contributed to discussion of non-functional requirements.
3. Justin contributed to discussion on what languages should be used, helping ultimately decide the first implementation should focus on flask and python due to their ease of implementation.
4. Justin performed the base implementation of the controller program: app.py, mainly working on connecting each method to interact with the database and the render of the html files. He also performed some minor bug fixes to the HTML files to connect them to the database.
5. Justin contributed to the development of a script and ideas for future implementations discussed in the demo video.

#### Mason Joy

1. Contributed to discussion of future plans for the next implement and discussion on challenges found in the first iteration.
2. Contributed to overall discussion and assisted in design of the initial diagrams used.
3. Mason will take the lead on the IT document, writing both of the sections listing languages, platforms and databases used due to the relatively simplicity of this first iteration.
4. Mason implemented the HTML files
5. Mason contributed to the development of a script and ideas for future implementations discussed in the demo video.

### 6) Plans for the next increment

In the next increment we plan on possibly transitioning to a stronger framework to better handle client side interactions while still remaining strong on the backend interactions such as database manipulations. We plan on increasing the complexity of the html renders to provide a more complete

visuals for the end user. We will need to generate unique ID numbers for each unique recipe so that we do not begin hosting duplicated data. We also plan on adding a stronger database structure that will allow for more specific data to be processed. The main focus being on the ingredients list as currently it is being stored as a single string. We hope to break up ingredients into their own fields so that we may query the recipes table to find the most relevant results when searching by ingredients. Lastly we would also like to somehow include a pre-populated database of recipes.

**7) Link to video**

[https://youtu.be/0Rt0DNb\\_9IM](https://youtu.be/0Rt0DNb_9IM)