

# **Recipe Project**

## Group 2

Members:

Gilbert Martinez

Jon Brooks

Andrew Heckman

## **Project Description**

This project will use modern web technologies to present a SaaS solution for recipes. Recipe storage and querying will be supported. A SQL database will be used in conjunction with an internal web server. This web server is configured to handle query requests from the user interface, and return JSON encoded data from the database. The user interface will be implemented using a modern JavaScript framework, and will be served on a linux machine running an HTTP server. The tech stack is comprised of:

- SQLite3: As the database which will handle the storage and querying of data
- Python3.10: As an intermediate language to handle the database and API
- Flask: As the API web server. A library for python
- ReactJS: As the language to describe and handle the user interface
- Nginx: As the HTTP server for serving frontend files and handling backend connections from the UI
- Ubuntu Linux 22.04: As the Operating System

## Project Timeline

At this point in the project planning process, it is difficult to nail down precise deadlines and predict what particular milestones and tasks need to be tracked, so the current project timeline only contains the items and deadlines from deliverables two and three. As the project develops, these items may be altered, and new items may be added to reflect changes in the project as it develops. In particular, smaller tasks that these big tasks rely on can be added to the chart to break up the work into smaller, more manageable chunks.

The current timeline, based on the deliverable deadlines, has the team completing the project design stage, including the system structure, requirement specifications, and a three-phase plan for project implementation, by October 16<sup>th</sup>. Each of these three phases are to be delivered on November 6<sup>th</sup>, December 4<sup>th</sup>, and December 12<sup>th</sup>, respectively.

## Recipe Management Project

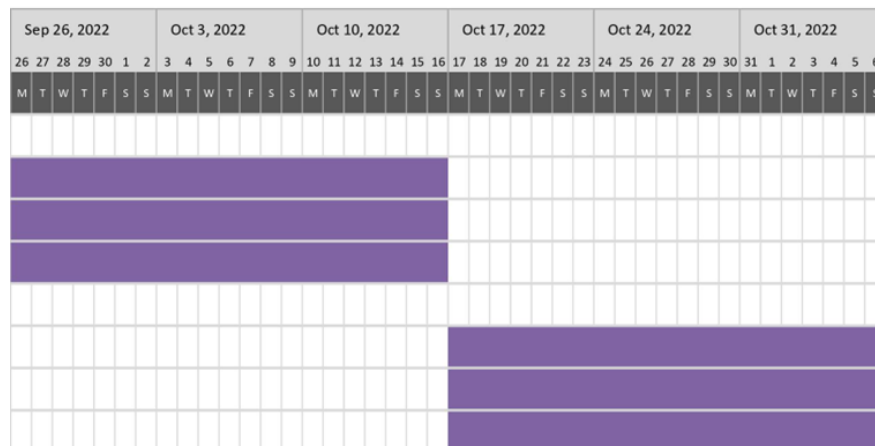
Group 2  
Jon Brooks  
Andrew Heckman  
Gilbert Martinez

Project Start: Mon, 9/26/2022  
Display Week: 1

TASK	ASSIGNED TO	PROGRESS	START	END
<b>Deliverable 2</b>				
System Structure		0%	9/26/22	10/16/22
Requirement Specifications		0%	9/26/22	10/16/22
Three-Phase Plan		0%	9/26/22	10/16/22
<b>Deliverable 3</b>				
Phase 1 Source Code		0%	10/17/22	11/6/22
Phase 1 Core Functionalities		0%	10/17/22	11/6/22
Phase 1 Report		0%	10/17/22	11/6/22

SIMPLE GANTT CHART by Vertex42.com

<https://www.vertex42.com/ExcelTemplates/simple-gantt-chart.html>



## **Risk Management**

The potential risks to our project can be grouped into a few categories. We have the risk of “lack of communication” which can cause cascading failures across the system. We have the risk of bugs, or faulty implementation that could decrease or eviscerate usability. We have risks of technical debt, or messy code that makes it increasingly challenging to reason about, or extend the system. All of these can be helped by applying a consistent and simple review process for code and implementation details. All of the group should be involved in this.

### **Team members roles**

- Gilbert Martinez - In charge of the github repository. Will be designing and implementing the User Interface.
- Jon Brooks - In charge of designing and implementing the backend API service as well as the schema for the database
- Andrew Heckman - backend development, database design and implementation