# Software Project Management Plan

## Cooking Companion Web Application

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## Team GCC

Computer Science Dept/CSUN

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**Revisions**

| Version | Primary Author | Description of Version | Date Completed |
|---------|----------------|------------------------|----------------|
| 1.0 | Edgar Kilamyan | Initial Version | 10/02/2022 |
| 1.1 | | | |
| 1.2 | | | |
| 1.3 | | | |
| 1.4 | | | |
| 1.5 | | | |

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# 1. INTRODUCTION

## 1.1. Scope

The purpose is to create a cooking web application that allows users to cook homemade meals with the ingredients they may already have at home. Users can also filter recipes based on food intolerances, allergies, dietary restrictions, and caloric values. Users also have the freedom to search for recipes regardless of any restrictions.

## 1.2. Product Value/Intended Use

Our product will not only be an avenue to search recipes of general dishes, but a place where users can optimize the use of ingredients they already have at home.

## 1.3. Intended Audience

The web application is intended for anyone who enjoys cooking and people who would like to utilize the ingredients they have at home.

## 2. FUNCTIONAL REQUIREMENTS

**ID: FR_1** - User shall be prompted to enter name, email, and password for sign up process.

**ID: FR_2** - User shall be prompted to enter at home pantry of existing ingredients.

**ID: FR_3** - User shall be prompted to enter special diets, food intolerances, and food allergies.

**ID: FR_4** - User shall be prompted to enter email and password for sign in process.

**ID: FR_5** - User shall be taken to the dashboard page after completing the sign up process.

**ID: FR_6** - User shall be able to login / logout from the navbar.

**ID: FR_7** - User shall be given a navigation bar at the very top of the screen to navigate between:

- Dashboard
- My Recipes
- My Pantry

**ID: FR_8** - User shall be able to search for specific recipes anytime using search bar on navigation bar.

**ID: FR_9** - User shall be able to view recipe instructions after clicking title/image of desidered, each individual recipe page will display the following information:

- Recipe Title
- Short recipe description
- Button to save  to save to "My Recipes"
- Image or video if available
- Prep Time
- Serving size
- Nutrition label
- Button to convert measurements to imperial or metric system
- Recipe instructions
- Check list of ingredients that can be checked/unchecked
- Option to print page

**ID: FR_10** - User shall have the ability to discover new recipes at the bottom of each individual recipe page.

**3. EXTERNAL INTERFACE REQUIREMENTS**

### 3.1 User Interface Requirements

**ID: UIR_1 -** User shall see an image of the dish, ingredient list, and instructions inside the selected item page.

**ID: UIR_2 -** User shall see introduction with brief explanation about the software service on the landing page.

**ID: UIR_3 -** From "Dashboard" user shall be given a personalized page with options to choose from:

- Recipes the user can make with the ingredients they have
- Already saved recipes / Suggestions (for new users)
- Popular food categories
- Search bar

### 3.2 Hardware Requirements

**N/A**

### 3.3 Software Interface Requirements

**ID: SIR_1 -** Product shall request recipe data from Spoonacular Api

**ID: SIR_2 -** Product shall send user login information for authentication before logging in the user.

### 3.4 Communication Interface Requirements

**N/A**

## 4. NON-FUNCTIONAL REQUIREMENTS

### 4.1 Security

**ID: SEC_1 -** Product shall send user login information to AWS for authentication before logging in the user.

**ID: SEC_2 -** Lambda function in the back end will encrypt the user passwords through a hash function, so that passwords cannot be accessed by unauthorized users.

### 4.2 Capacity

**ID: CAP_1 -** All data not coming from Spoonacular shall be stored on AWS

### 4.3 Compatibility

**ID: COMP_1 -** The web application shall be available to anyone with internet access. It is also assumed that they will use a browser equipped with HTML 5.

### 4.5 Scalability

**ID: SCA_1 -** For the purposes of this project we shall support two users at the same time.

### 4.6 Usability

**ID: USA_1 -** User shall be given an overview of our product from the "homepage", which shall be viewable by anyone even if they don't have an account.

## 5. QUALIFICATION PROVISIONS

### Table 1. REQUIREMENTS VERIFICATIONS

| SRS Req. ID | Paragraph Title | Verification Method |
|---|---|---|
| **ID: FR_1** | Users shall be prompted to enter name, email, and password for the sign up process. | Demonstration |
| **ID: FR_2** | User shall be prompted to enter at home pantries of existing ingredients. | Demonstration |
| **ID: FR_3** | User shall be prompted to enter special diets, food intolerances, and food allergies. | Demonstration |
| **ID: FR_4** | User shall be prompted to enter email and password for the sign in process. | Demonstration |
| **ID: FR_5** | User shall be taken to the dashboard page after completing the sign up process. | Demonstration |
| **ID: FR_6** | User shall be able to login / logout from the navbar. | Demonstration |
| **ID: FR_7** | User shall be given a navigation bar at the very top of the screen to navigate between: Dashboard, My Recipes, My Pantry | Demonstration |
| **ID: FR_8** | User shall be able to search for specific recipes anytime using the search bar on the navigation bar. | Demonstration |

| SRS Req. ID | Paragraph Title | Verification Method |
|---|---|---|
| ID: FR_9 | User shall be able to view recipe instructions after clicking title/image of desidered, each individual page will display the following informationRecipe Title Short recipe description, Button to save  to save to "My Recipes", Image or video (if available), Prep Time, Serving size, Nutrition label, Button to convert measurements to imperial or metric system, Recipe instructions, Check list of ingredients that can be checked/unchecked, Option to print page recipe. | Demonstration |
| ID: FR_10 | User shall have the ability to discover new recipes at the bottom of each individual recipe page | Demonstration |
| ID: UIR_1 | User shall see an image of the dish, ingredient list, and instructions inside the selected item page. | Demonstration |
| ID: UIR_2 | User shall see an introduction with a brief explanation about the software service on the landing page. | Demonstration |
| ID: UIR_3 |  From "Dashboard" user shall be given a personalized page with options to choose from: Recipes the user can make with the ingredients they have, Already saved recipes / Suggestions (for new users), Popular food categories, Search bar. | Demonstration |
| ID: SIR_1 | Product shall request recipe data from Spoonacular Api | Test |
| ID: SIR_2 | Product shall send user login information for authentication before logging in the user. | Test |

| SRS Req. ID | Paragraph Title | Verification Method |
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| **ID: SEC_1** | Product shall send user login information to AWS for authentication before logging in the user. | Test |
| **ID: SEC_2** | Lambda function in the back end will encrypt the user passwords through a hash function, so that passwords cannot be accessed by unauthorized users. | Demonstration |
| **ID: CAP_1** | All data not coming from Spoonacular shall be stored on AWS | Demonstration |
| **ID: COMP_1** | The web application shall be available to anyone with internet access. It is also assumed that they will use a browser equipped with HTML 5. | Demonstration |
| **ID: SCA_1** | For the purposes of this project we shall support two users at the same time. | Demonstration |
| **ID: USA_1** | User shall be given an overview of our product from the "homepage", which shall be viewable by anyone even if they don't have an account. | Demonstration |

**6. Notes**

<u>6.1 Acronyms and Abbreviations</u>

Table 2. ACRONYMS AND ABBREVIATIONS

| Abbreviation | Full Name |
|---|---|
| AWS | Amazon Web Services |