

Software Requirements Specification

Cooking Companion Web Application

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Revisions

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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 have the option 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 “My Pantry” page after completing the sign up process.

ID: FR_6 - User shall be able to logout.

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

- Dashboard
- Start Cooking
- 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 desired, each individual recipe page will display the following information:

- Recipe Title
- Short recipe description if available
- Button to save recipe
- 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 "Landing page", 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 desired, each individual 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 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
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

6.1 Acronyms and Abbreviations

Table 2. ACRONYMS AND ABBREVIATIONS

Abbreviation	Full Name
AWS	Amazon Web Services