Software Requirements Specification

For Tasty Bytes

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1. Introduction

The aim of this document is to provide a detailed description of our project's specifications and requirements, in addition to pointing out the intended audience, the intended use, functions, objectives, and goals of this project.

1.1 Project Scope

Due to the current geopolitical status of the world, inflation is on the rise, and ordering food has become a demanding financial decision, which sparked the need for a piece of software to help everyone make their favorite dishes.

Our objective is to increase the user's satisfaction, provide a smooth interface to ensure an overall pleasant experience, and increase operational efficiency.

1.2 Product Value

This web application aims to make the process of deciding what meals to prepare easier for its users, be it people who go to the gym to help them with meal prepping, people who are looking to follow a healthier diet, people who are just looking to try different recipes in general, or moms who are looking for delicious recipes to satisfy their picky-eater children. By finding recipes that require items that they already have in their pantry, meal prepping and recipe following have become easy and hopefully, less of a fuss.

1.3 Intended Audience

This product has three types of users, common visitors who are looking for recipes, chefs, and administrators. A chef has access to different functionalities from a regular user. Chefs are the ones posting the recipes that later on can be rated and depending on these ratings, the chef's rating can go higher or lower. Administrators make sure that the recipes' comments section isn't going against community guidelines and aren't being spammed by users.

1.4 Intended Use

Regular users and chefs could have personal accounts through which they could browse recipes, comment, share their experiences by adding pictures, and rate other recipes in addition to checking others' reviews and comments. They should be able to add items from their pantry and select their dietary preferences (if any), and the software should display recommended recipes that the users could try listed according to the highest rating; furthermore, a user could generate a shopping list based on the ingredients needed for a selected recipe. Recipes could also be looked up by name, favorited by users, or added to a later list. Chefs could upload their recipes in addition to pictures of them, get their recipes rated, and on it depends on the rating of the chef's account. Administrators use the website differently, as they will be

responsible for making sure that users aren't violating any community guidelines. The website allows them to delete a comment if it is spam, contains hate speech, etc., and send a message to the user that their comment has been deleted due to violating a community guideline.

2. System Features and Requirements

2.1 Functional Requirements

1. Users must be able to create accounts and sign in either as chefs or regular users.

Changelog: 13th Dec, v2, Malak, desc: there will be no administrators usual log in

2. Users should be able to update, edit, and delete their accounts

Changelog: 17th Dec, v2, Malak and Salma, desc: users don't have the ability to change or recover their passwords.

3. Regular users must be able to choose the ingredients and add them to their pantry

4. Regular users should be able to delete items from their pantry

Changelog: 16th Dec, v2, Shahd, desc: there will be no quantities in the pantry

5. The system should be able to sort recipes based on the relevance to the available ingredients

6. The system should be able to recommend a recipe based on the ingredients in the regular user's pantry

7. The regular user should be able to comment, rate, and review the recipes.

Changelog: 19th Dec, v2, whole development team, desc: users can only review posted recipes on the website not other users' trials

8. Chefs should be able to add their recipes to the software system.

9. The software system should be able to update, edit, and add users' data and recipes to the database

10. Regular users should be able to share details about their attempted recipes

Changelog: 19th Dec, v2, whole development team, desc: users wouldn't be able to add photos of their trials

11. Regular users must be able to filter the recipes based on their dietary preferences (such as gluten-free, vegan, vegetarian, lactose-free,... etc.), difficulty, and preparation time.

12. The system must be secure by doing CAPTCHA tests before writing a review to avoid spam comments

13. The software system should be able to display the details of the recipe (neutral ingredients)

Changelog: 19th Dec, v2, whole development team, desc: there will be no details about the preparation time and number of servings

14. Regular users should be able to save recipes for the future in the "saved recipes" page

15. A search functionality that lets the user search the recipes by name.

16. The software system must be able to handle errors (invalid inputs, failed operations…etc) by printing a message.

17. Users should be able to star their favorite recipes in the "starred recipes" page

18. The system should display auto suggestions as the users enter their ingredients

19. Users can generate a shopping list based on the ingredients needed for selected recipes.

20. Users can edit and manage their shopping lists.

2.2 Non-functional Requirements

1. The interface should be user-friendly and consistent
2. Templates should render efficiently, minimizing page load times
3. Ensure data privacy and implement encryption for sensitive information
4. The system should be compatible with major browsers including Chrome and Firefox
5. The system should handle a large number of users simultaneously without crashing
6. The system should offer customer service channels (for example, a Contact Us form or a formal email address)
7. The system should include FAQs for the problems that may arise to help the user navigate easily through the system