Software Requirements Specification

for

Naive Baker

Your one stop destination for recipes

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Contents:

1. Problem Statement

Imagine a world where your kitchen helps you decide what to cook using your pantry and preferences. Build a project to let you explore new recipes with ingredients you already have at hand. Enter your pantry quickly using autocomplete and machine generated ingredient suggestions, then find out what you can cook! Use the filters to limit the amount of time you have, or to select the particular ingredients you feel like cooking with today.

2. Brief Description

What is the need for this project?
Many people look for “what to cook ?” or “How to cook something?” on the internet, or they want to share his/hers findings with the world.

What are the problems in the current system?
There exist few recipe sharing websites and applications but a common issue general users face is the complexity of their graphical user interface. These applications do not have user friendly UI so sometimes users get confused while navigating for recipes. Hence application with fairly intuitive UI is necessary.

What is the Objective of this project?
So this software will help all those people who want an answer to all those questions easily and Share their talents related to cooking with the world on the same platform. Here users can easily search for recipes with different search methods mentioned. Users can find the recipe based on the ingredients available in the kitchen and cook the best out of it. They can also save time by searching the recipes based on the time available for them until guests arrive, filtering recipes with Average preparation time, and making them happy by serving happy dishes. Or users can also try different cuisines to make a good impression, or if they have a good interest in different kinds of cuisine, they can cook at home. And If someone tries out new recipes at home and finds them too delicious, He or She can share them with the community so anyone around the world can cook the same thing: the local delicacy of the town over the seas.

A straightforward web interface that can be accessed from both Mobile and desktops. So all they need is an active internet connection and a desktop or web interface in addition to ingredients available in the kitchen and make the best out of it.

What are technologies used for the project?

HTML,CSS - For markup and UI design
React - Frontend Javascript framework
MongoDB - Non-relational Database for storing data
NodeJS - Backend Javascript framework
Github - Version Control software for collaboration

3. Stakeholders and Users

Main users are Cooking enthusiasts or anyone who is looking for recipes on the internet. And Those who want to share their recipes with the world.

Developers, Designers and programmers are also considered as user.

Stakeholders:

- **Server investors**
- **Website promoters**
- **Cooking schools**: may want to share their recipes and promote the school
- **Food company:** May want to share their content on the Site with similar interests
- **Chefs**: they also want to share a new variety of recipes.
- **Kitchenware company:** They might want to promote their gadgets to users who make recipes.

For example, companies who make microwaves and ovens might want to promote their products and accessories to bakers.

Those who want to promote their content on the same sector (recipe) on the website will be our main stakeholders.

4. Elicitation Techniques

In this project we have used have used the following elicitation techniques :

1) **Analysis of Existing Systems**

    - Documentation
    - Observation

    In the analysis of existing systems we looked at the pre existing system and found out what is used, not used, or missing . What works well, what does not work. How the system is used (with frequency and importance) and it was supposed to be used, and how we would like to use it. We have seen user reviews and analyzed it to understand what are the user requirements.

2) **Brainstorming**

    The storm : In this phase of brainstorming we found out all possible ideas that could be brought up and can be combined to form a good software.
    The calm : In this phase we filtered out some ideas and kept only the ones that were the best and suited for the software.

5. Process Model

We have used **The Prototyping Model.** Since our problem statement revolves around 1 most important requirement which is user friendly interface for the application prototyping model suits best with our requirements. For our prototypes we can show it to users and stakeholders for getting feedback for prototypes.

Being more specific, we used **The Evolutionary Prototyping Model**. At each stage development we made prototypes for components and improved them according to requirements of the users and stakeholders.

6. Functional Requirements

- **Personal dashboard**
    - Search history
    - Saved Recipes
    - Following & followers
    - Uploaded Recipes
    - Account & settings
        - Security or any general edits

- **Search by:**
    - Ingredients
    - Dish name
    - Cook name

- **Filters**
    - Category: Veg/Non-Veg/Vegan
    - Meal type : breakfast/Lunch/dinner/Quick snacks etc.
    - Cuisines: indian, italian etc.
    - Preparation time

- **Explore Page**
    - Featured recipes
    - Personalized feed

- **Recipe Page :**
    - Suggestion and feedback
    - Like
    - Save to wishlist
    - Access cook’s profile
    - Share

- **Report & support :**
    - Users can report inappropriate content .
    - Users can get help from the technical support team for issues.

7. Non-Functional Requirements

Scalability:

- The performance of a website should not degrade if the number of users increases.

Performance:

- The system should be able to handle multiple users simultaneously and efficiently, and for that server should have large bandwidth to handle the tasks.
- Response time for user's requests must be as short as possible
- The system server should have strong internet connectivity for 24 * 7, which is also affected by the server side's bandwidth.

Operating Environment :

- A modern web browser such as Chrome, Firefox, Safari, Edge, and Mobile browsers like Chrome(android), Safari(iOS), Samsung Browser, Opera etc.
- Users must have an active internet connection to access the website.

Privacy & Security:

- Any credentials should not be stored in plain text, hashing algorithms must be implemented for security.
- Users will not be able to see other users data which he or she selected not to share with others.
- Users can enable Two Factor authentication to secure their account.
- Users can decide what others can see on their profile.
- The website must have SSL certification to provide secured webpages.

Accessibility:

- The web interface should be user-friendly and interactive.
- Searching recipes should be easy and should have fast responses.

Reliability:

- Search, and Filtered data should be more accurate to make it easier for the user to find desired recipes.

Privileges:

- Any registered user can upload a recipe and save a recipe or follow other users.
- Non registered users can access recipes but cannot upload/like/save recipes.

8. User Stories

As a **recipe-seeker**
I want to find recipes which includes my ingredient list,
so that I can cook from available ingredients in my kitchen.

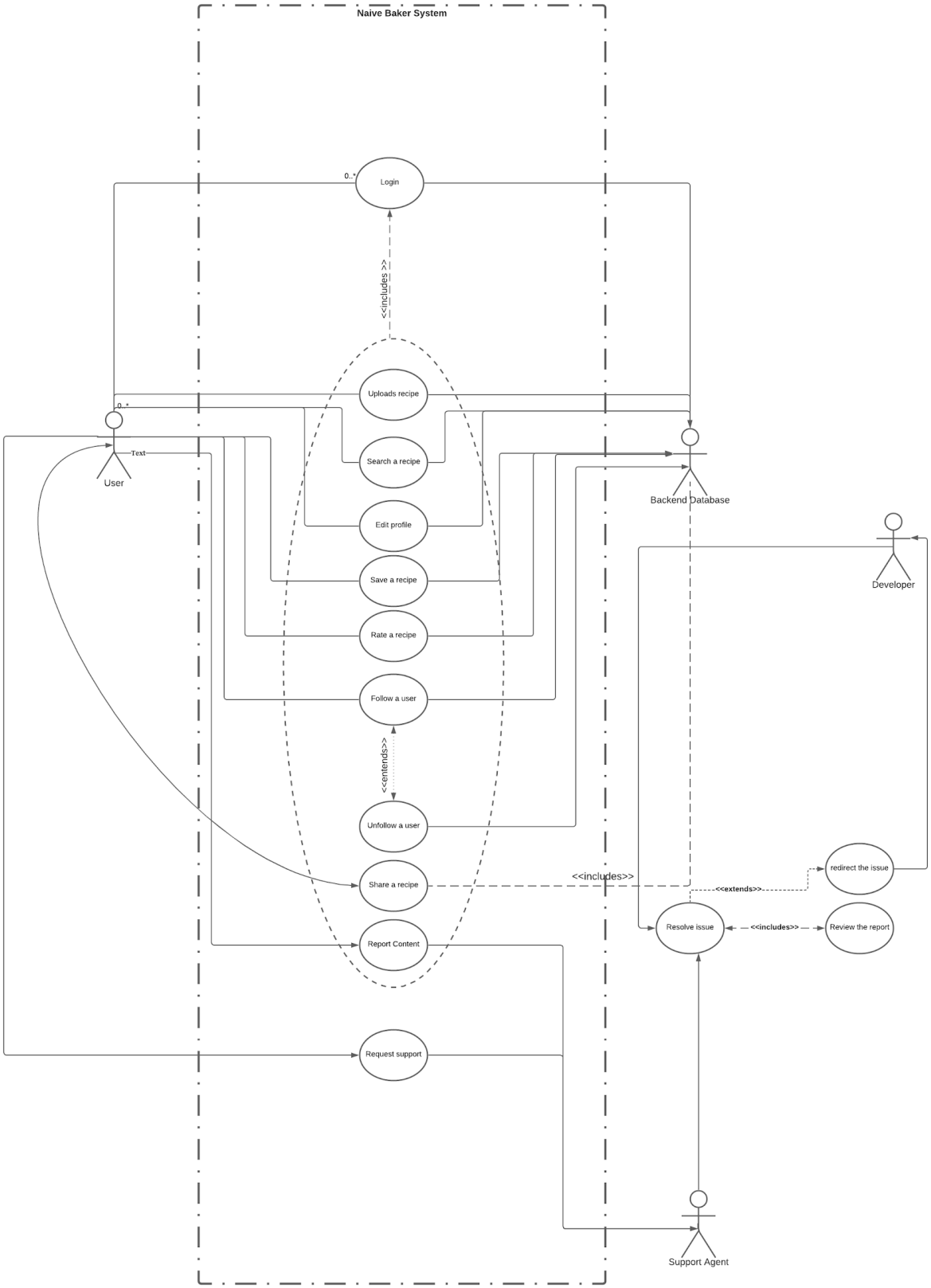
As a **recipe-seeker**
I want to find recipes of various cuisines,
so that I try different dishes.

As a **chef**
I want to upload my recipes for others,
so that they can follow my recipes for different dishes.

As a **culinary school**
we want to upload our recipes,
so that various students can learn about our cooking style and might enroll in our school.

As a **Induction stove maker**
we want to share our products with users,
so that they can know features and functionalities of our products.

9. Use Case Diagram



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