IT314: Software Engineering

Lab-V Q3

NAIVE BAKER

Group 9

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NAIVE BAKER

1. **Stakeholders and Users for our system**
   - 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.
   - Stakeholders: server investors and 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.

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

2. User requirements :

1. **Search by**:- The following different types of searches user can use:-
   a. Search by Dish name:- Just enter the dish name in the search box, and it will lead you to the page with all the recipes with that name and the similar ones.

   b. Search by ingredients:- If a user doesn't want to cook a specific recipe; instead, He/She wants something to be made out of ingredients available in the kitchen, then He/She can use the search by ingredients option to search for recipes that he/She can cook using the available ingredients only.

   c. Search by Cook name:- A user can search other users' names to show all the list of dishes made by the searched user.
   d. Search by Types: users can search by any keyword from the recipe or just kind of dishes, e.g., Dinner, Breakfast, and results will suggest the recipes related to the search Query.

2. **Filters**:- While searching user can use the following different filters:-
   a. Category (Nonveg - veg - Vegan):- User can filter the results with these three categories, Like there are many vegetarian people or people who don't use any animal products (vegan). They can filter out results to see desired recipes.
   b. Meal types:- User can select from different meal types to see the recipes in those types :
   >   Breakfast, Lunch, Dinner, Quick Snacks, etc.

   E.g.if a user who has some specific ingredients and wants to make some quick snacks to eat, he can filter out results to see only those results that he wants.
   c. Cuisines:- Cooking enthusiasts may want to try out different cuisines occasionally; with this filter, users can filter out results with specific cuisine types. It can be Indian, Chinese, Thai, Korean, Italian, Mexican, etc.

   d. Preparation Time: The user can filter out recipes based on average preparation time to see recipes that can be cooked in the required time.

3. **Personal Dashboard**:- After logging into the system user can see/use the following features
   a. Following and followers:- user can see the list of people whom he/she is following and those who are following him/her.
   b. Upload recipe:- user can upload his recipes to the site to share it with the world with the format provided.
   c. Saved recipe:-User can save the recipes to his/her dashboard to cook them later.
   d. Search history:- A user can see a list of all the searches made by him/her.
   e. Help: Users can find help articles related to the website.
   f. Account and Settings:- In this, the user can access his information on the site. Like,
   >   Change profile information: Profile Photo, Name, username, Contact information, and other categorized information.
   >   Change account Password and manage Two-factor authentication features.
   >   Privacy and Security: user can read the privacy policy of the site and Can manage what he/or she wants to share with other users on the website. Also, can report or block other users.

4. **Explore Page**:- here user can browse the featured recipes. Also, if the user is logged into the system, he will get a personalized user feed based on followings and cooking history.

5. **Recipe Page**:- after opening a recipe page user can do the following actions:
    1. Rate and appreciate the recipe
    2. Cook mode: Where users can cook step by step with easy cook mode.
    3. Add the recipe to the saved List.
    4. Leave a comment and feedback to the cook.
    5. Report inappropriate content
    6. Visit the cooks' profile to follow the user or see more recipes by the same user.
    7. See similar recipes to the recipe opened.

System requirement:-

1. **Backend Server:** a powerful server that can handle multiple up and down requests,
    a. When a user searches for a recipe, it will run the query in the database to get the best results and return it to the user.
    b. When a user uploads a recipe, it will process all the data into a formatted recipe so when another user searches, it can render the formatted recipe to the web page.
    c. Keep the dashboard data of a user to access his account from anywhere by logging into his account.
    d. Keep encrypt secure credentials of all the users so the hackers cannot crack any user's account or run into the server.
2. **Support**:- When a user reports some post, then the system should redirect the handling team issue.

3. Non-functional Requirements for the System :

1. **Scalability:**
   - The performance of a website should not degrade if the number of users increases.

2. **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.

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

4. **Privacy & Security:**
   - Any credentials should not be stored in plain text, hashing algorithms must be implemented for security.
   - User 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.

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

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

7. Privileges:
- Any registered user can upload a recipe and save a recipe or follow other users.
- Non registered user can access recipes via search but cannot upload or save recipes

4. **User Interface:** It is a web interface.It can be accessed from both Desktop web and Mobile web interface.

Terms used in the system should be simple and easy to understand, So, we will use simple terms that most Internet users can easily understand and don't get confused with the terminology. A minimalistic design that will show only those things which is required for our primary target users.

There is a cook mode for step-by-step cooking so a user can focus while looking at the recipe and cook at the same time with ease.
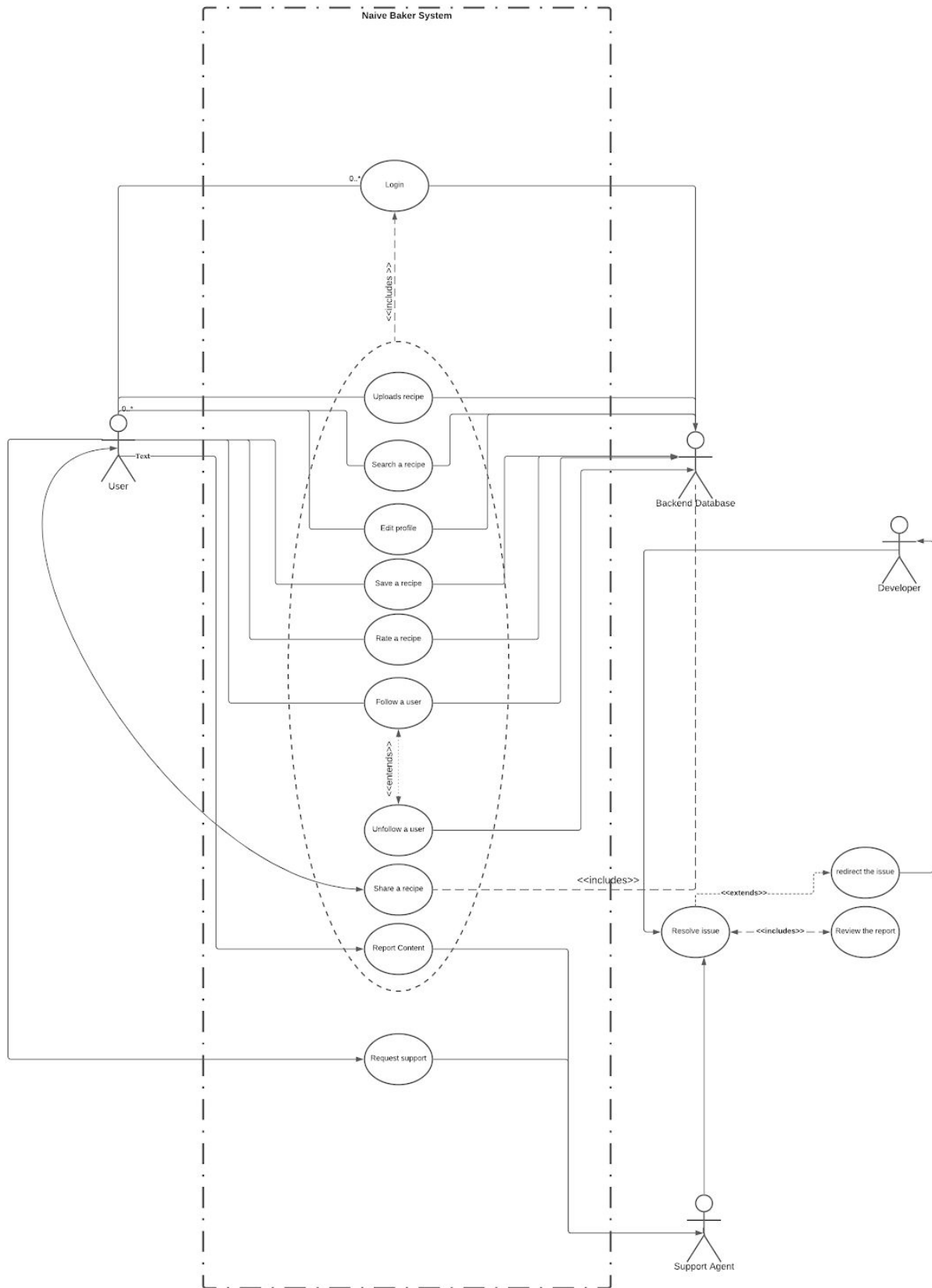
   a. Desktop Web UI: Most desktop users use Chrome, then Mozilla Firefox, Safari, then Microsoft Edge(Statistics). So the interface should be supported by all these modern browsers. UI should be Light and should have a responsive size because heavy Web UI can use many system resources (RAM, CPU & even GPU), which will lead to an unresponsive page sometimes.
   b. Mobile and TAB - Web UI: Most used browsers in mobile are: Google Chrome(Android Native browser), Safari (iOS Native), Samsung Internet(Samsung devices preinstalled browser), UC Browser, and Opera. These pages should have all the actions available on Desktop sites in compact form, and the interface should have to be clean and responsive in size to Mobile Screen. Similarly, for Tablets, it should be responsive to screen and orientation.

6. Open Issues :

● Privacy: The risk of a privacy breach may be a bit high.

● Updates: The updates are not frequent. Though the complaints received from the customers and bugs reported are high, the updates are not released Immediately.

● Community outreach: In order to make a project successful, it is necessary to have a vast community of users. To spread the network faster and increase the number of users is a challenge.

● Compatibility: When using this software in accordance with any other open/closed -project, the sources may be a little challenging to get along with each other.

● Skilled Support Staff: Support staff must help users resolve issues and guide them through the system. Training and shaping them to be helpful to others takes a lot of time.

● Action reviewing time: A few peoplemisuse their freedom and hurt other people's sentiments. To deal with such activities, we have a procedure. But reviewing the action takes a lot of time. Improving in this field by decreasing the response time is another challenge.

7. Use Case Diagram :

Naive Baker

Naive Baker System

Login

0..*

<<includes>>

Uploads recipe

Search a recipe

Edit profile

Save a recipe

Rate a recipe

Follow a user

<<extends>>

Unfollow a user

Share a recipe

Report Content

Request support

Text

User

0..*

Backend Database

Developer

redirect the issue

<<extends>>

<<includes>>

Resolve issue

<<includes>>

Review the report

Support Agent

8. Overall 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 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 cuisines, 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.