
IT 314 – LAB 03

NAME AND IDs:

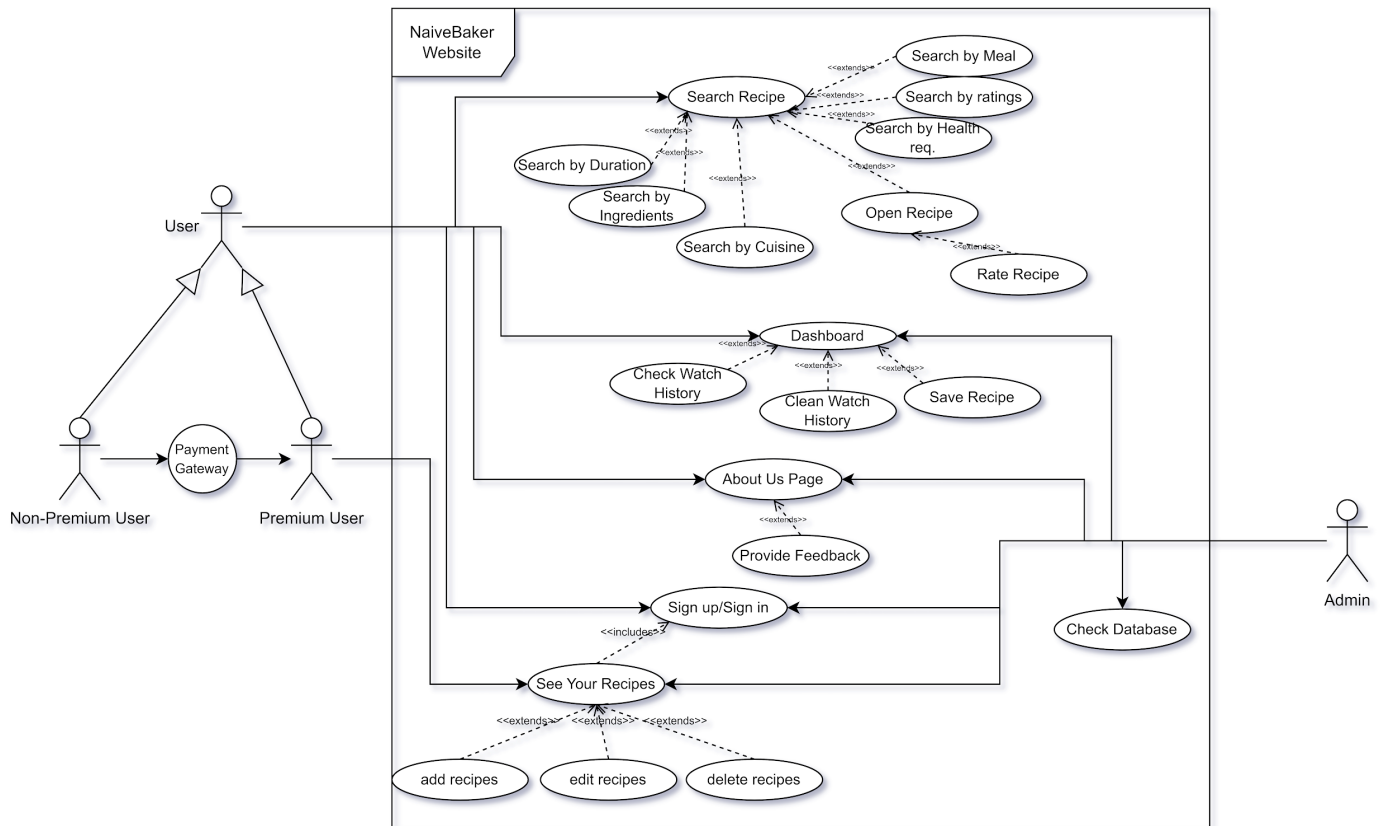
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LAB DATE:

22/02/2023

USE CASE DIAGRAM

The updated use case diagram (Version 2) for the system is as follows:



USE CASE DESCRIPTION

The different use cases used in the use case diagram are

1. Sign Up/Sign in
2. Search Recipe
 - 2.1. Search by Ratings
 - 2.2. Search by Meals
 - 2.3. Search by Health Requirements
 - 2.4. Search by Cuisine
 - 2.5. Search by Ingredients
 - 2.6. Search by Duration
3. Dashboard
 - 3.1. Check watch history
 - 3.2. Saved Recipe
 - 3.3. Clean watch history
4. See your recipes
 - 4.1. Add recipe
 - 4.2. Edit recipe
 - 4.3. Delete recipe
5. Check database
6. About us Page
 - 6.1. Feedback

The different actors present in the use case diagram are

1. Users
 - 1.1. Premium User
 - 1.2. Non Premium User
2. Admin

1) SIGNUP:

Name: Register

Actors: Non premium users.

Goal: To register the new users visiting our website so that we can store and handle their data.

Pre-Condition: The system does not have the information regarding the users trying to access the website.

Trigger: The Register option registers the new users to access the system.

Actual Flow:

- 1) The user enters the email address and password.
- 2) The user enters the confirm password.
- 3) The user confirms registration by clicking on submit.

Alternate Flow :

- 1) If the confirm password does not match with password entered, user is prompted to re-enter the password

Post-Condition: After the completion of this user case, we successfully register the new users.

2) SIGNIN:

Name: SignIn

Actors: Both Premium and Non Premium users and admin.

Goal: To allow already registered users to access our system.

Pre-Condition: The user should already be registered.

Trigger: The SignIn option gives the user the option to access different functionalities of the system.

Actual Flow :

- 1) The user enters the email address and password.
- 2) The user confirms registration by clicking on submit.

Alternate Flow :

- 1) If the entered email and password are not valid then the user is prompted to re enter the details.

Post-Condition: The user successfully Signs In on our website.

3) SEARCH RECIPE:

Name: Search Recipe

Actors: Users divided in two categories as Prime User and Non-prime user as per their subscription.

Goals: Users can search according to different filters for multiple recipes.

Pre-Condition: Users must register themselves before using search recipes .

Trigger: When a user wants to search for a particular recipe.

Actual Flow of Search:

- 1) User will first select the filter.
- 2) Users will have to type the keyword for a particular filter.
- 3) Users will be recommended a number of recipes according to their selected filter.
- 4) User will now have to select his preferable recipe from the recipes shown.

Alternate Flow of Search:

- 1.1 If The user is unable to select a filter.
- 1.2 If the entered keyword does not exist.

Different methods/filters to search:

1.Duration: The user can search dishes and recipes based on the time required for making a particular dish.

2.Ingredients: The user can search for dishes and recipes based on available ingredients. The dishes with the most matching ingredients are returned.

3.Type of Cuisine: The user can select the type of cuisine that (s)he wishes to have. These may include continental, Indian, Mexican, regional etc.

4.Health Requirements: The user can select or choose a particular dish or recipe based on a range of calorie intake.

5.Ratings: a way to filter based on the average ratings by the various users.

6.Meal: The user can filter out what meal (s)he wants from breakfast, lunch, snacks and dinner.

Post-Condition: After the completion of the user case the user will be able to see multiple recipes according to given keywords.

4) SEE YOUR RECIPE:

Name : Recipe management

Actors : Premium user, Admin

Goals : This allows the actor to make changes in the database of the recipes.

Pre condition : The user should be logged in with a premium account or the admin account.

Description : In this use case, the actor can edit/delete his own recipe or add a new one in the database.

Trigger : When the actor clicks to see his/her recipes uploaded on the website.

Related use cases : Edit Recipe, Add recipe, Delete recipe

Actual Flow :

- 1) The user will see your recipe option to perform the functionality.
- 2) The system will show all the recipes uploaded by the user.
- 3) User will then perform the functions that they wish, such as

Delete Recipe :

- 3.1) The user will be able to view all the uploaded recipes.
- 3.2) Delete option would be available beside each recipe.
- 3.3) The user would select the options and the recipe would be deleted from the user's database.

In the same way, we can have the actual flow of other 2 functionalities

Post Condition : The user will see the changes made in the recipe database.

5) DASHBOARD

Name: Dashboard

Actors: Users, admin

Goals: To carry all the information regarding the user and admin has the control on it

Pre-Condition : User must login/ sign in before accessing the dashboard.

Trigger: When the user clicks on the profile icon placed at the top right corner.

Related use cases : Check watch history, Clear watch history, Saved recipes

Actual Flow :

1. The user will have to click on the profile icon to display the dashboard panel.
2. The user will click on the functions provided inside the dashboard.

Watch History :

- 2.1. The user will be able to see all the recent recipes it visited.

Delete Watch History :

2.1. The user will select the recipes to delete from the history database.

2.2. User will then confirm the deletion of the recipes .

Saved Recipe :

2.1. User will click on the bookmark icon on the dashboard.

2.2. From there the user can access all the saved recipes on his account.

Post Condition: The user will be able to see the parameters and data of the functions provided in the Dashboard.

6) ABOUT US PAGE

Name: About Us Page

Actors: Users, admin

Goals: To provide information about the help desk which will help to resolve the technical issues.

Trigger: When the user encounters an error which he has no idea about.

Actual Flow:

1. The user encounters a problem.
2. The user selects About Us Page.
3. The user can also provide feedback about the site.

Post Condition: The user will be able to see information regarding the About Us Page and possibly resolve his/her issue.

NON-FUNCTIONAL REQUIREMENTS

1) PERFORMANCE:

DEFINITION :

- The software should be able to handle multiple users simultaneously, so the server should be compatible with heavy traffic.

JUSTIFICATION :

- Users will search for recipes and set filters based on their preferences, thus we need a system that returns results from the database promptly.
- We need a system that can manage the multiple users while still functioning properly because many consumers will be using our product simultaneously, which could cause our site to slow down .

2) SCALABILITY

DEFINITION :

- The system should be able to handle multiple users at once.

JUSTIFICATION :

- As the number of visits gradually increases on our website the server should be able to handle the load without incorporating delays in the responses.

3) SECURITY, PRIVACY, AND DATA INTEGRITY

DEFINITION :

- The user's data should be kept secure for privacy reasons, and data integrity should be maintained.

JUSTIFICATION :

- The user's data and search history should not be shared with other individuals and integrity should not be compromised.

4) ACCESSIBILITY AND USABILITY

DEFINITION :

- The system should be easy to access , and the user interface should be simple to use .

JUSTIFICATION :

- Websites should be made simple , interactive so that any new user can access it easily .
- When visitors visit our website for the first time, the login process shouldn't be complicated or difficult.

5) RELIABILITY

DEFINITION :

- The system should be reliable and provide accurate results based on user needs.

JUSTIFICATION :

- The recipe we provide to the user should be precise and not misleading. i.e the macros of the recipe should be precise.