
LemmeDoltForU

LemmeCook

Use-Case Specification Document

Version <1.0>

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Revision History

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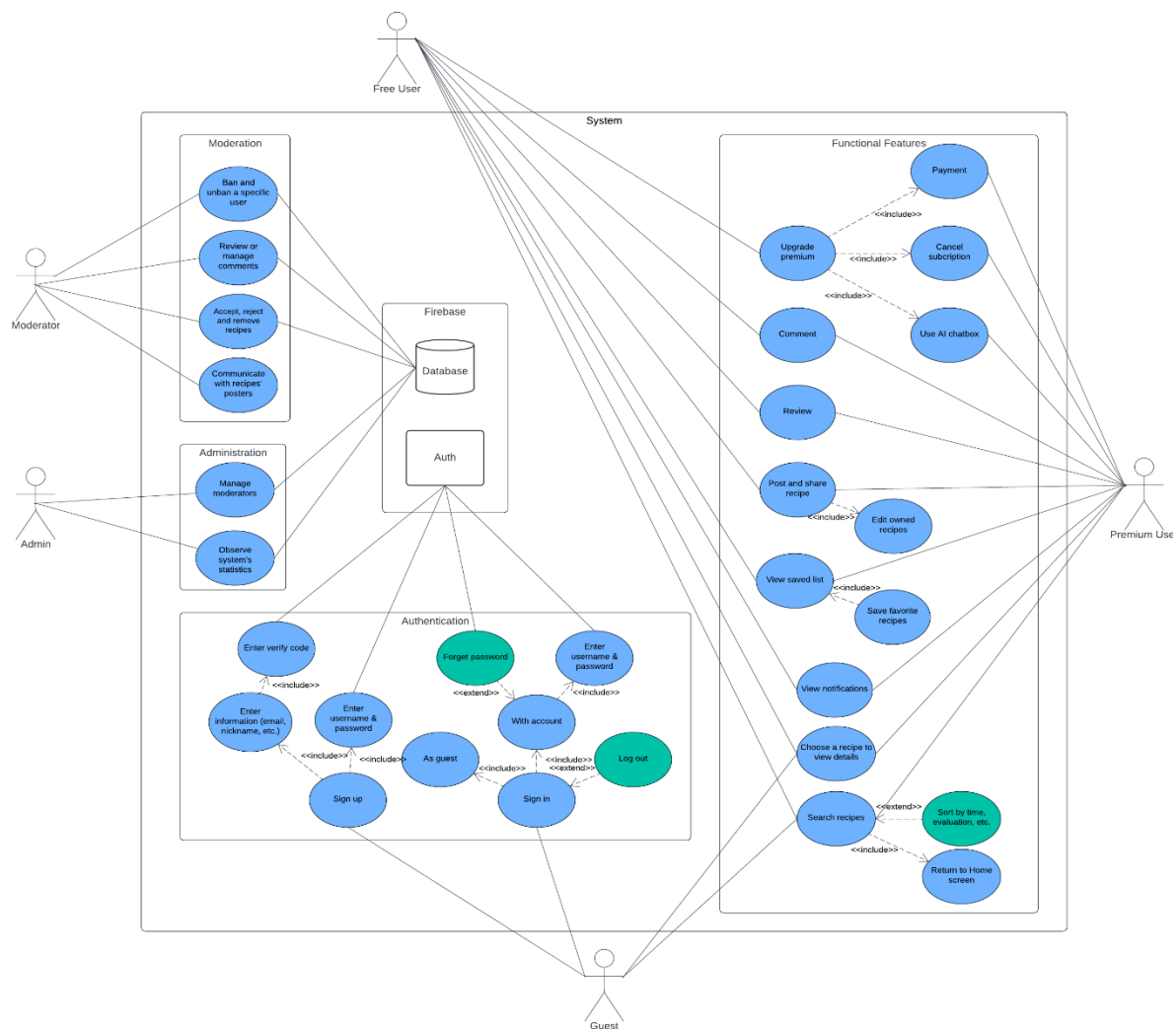
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I. Use-case diagram:



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II. Use-case specification:

1. Use-Case ID: UC-01

1.1 Use-Case Name: Authentication

1.1.1 Brief Description

This use-case is an authorization use-case that users choose to log in as 5 kinds of users: guest, free user, premium user, moderator or admin. It also allows users to sign up an account.

1.2 Flow of Events

1.2.1 Basic Flow

1. Users open the LemmeCook app.
2. The application go to log in screen
3. Users enter email and password.
4. Users log in with email and password.
5. The system navigates to home screen with all usual functionalities.

1.2.2 Alternative Flows

1.2.2.1 Guest flow

3. Users choose to log in as guest account.
4. The system navigates to home screen with limited functionality.

1.2.2.1.1 Third-party flow

3. Users choose to log in with Facebook or Google account.
4. The system authorizes users' Facebook or Google account.
5. The system navigates to home screen with all usual functionalities.

1.2.2.2 Sign up flow

3. Users choose to sign up a new account.
4. The system navigates to sign up screen.
5. Users enter all necessary information.
6. Users sign up with new account.
7. The flow return to basic flow.

1.2.2.2.1 Incomplete information flow

5. Users not entering all necessary information
6. The system prompts the user to fill in the missing necessary information.
7. Users refill all missing information.
8. Users successfully sign up with new account.
9. The flow return to basic flow.

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1.3 Special Requirements

1.3.1 *Authentication logics for authenticating user accounts and user inputs.*

1.4 Preconditions

1.4.1 *The application on users' devices can access to hosting location.*

1.4.2 *The application's server is active.*

1.5 Postconditions

1.5.1 *The system make users' application's home screen updated displaying contents based on users' level.*

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2. Use-Case ID: UC-02

2.1 Use-Case Name: Searching recipes

2.1.1 Brief Description

This use case allows all types of users (guest users, free users and premium user) to search, view and sort recipes based on the food name, ingredients, time, and evaluation from search screen/bar or from home screen with top 5 recipes.

2.2 Flow of Events

2.2.1 Basic Flow

1. Users click the search bar.
2. Users search for recipes by entering the name of the food or the ingredients of the food.
3. The application display recipes with the most suitable ingredients or names.
4. Users select a recipe.
5. The application go to the blog screen.
6. Users return to home after viewing the recipe.

2.2.2 Alternative Flows

2.2.2.1 Sorting flow

3. Users sorts recipe by cooking time or evaluation, e.t.c.
4. The application display recipes based on cooking time or evaluation, e.t.c.
5. Users select a recipe, and the flow return to basic flow.

2.3 Special Requirements

2.3.1 Comparison logics for getting recipes that satisfy the desire of users.

2.3.2 Choice logics for choosing which recipes appear at the top.

2.3.3 Database query logics for preventing queries' congestion.

2.4 Preconditions

2.4.1 Users has already logged in to the application.

2.4.2 The application's server connected to the database server successfully.

2.5 Postconditions

2.5.1 The application updated user history.

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3. Use-Case ID: UC-03

3.1 Use-Case Name: Free usage

3.1.1 Brief Description

This use case allows free users to post, share, rate, comment, and save their favorite recipes. It also allows users to upgrade their accounts to premium and .

3.2 Flow of Events

3.2.1 Basic Flow

1. Free users logs into their accounts.
2. Free users navigate to the recipe posting section.
3. Free users enter the recipe details and publish it.
4. The system adds the new recipe to the queue and waits for moderator approval.
5. The system displays the new recipe in the blog format for other users to view.
6. The system navigates to home screen.
7. Free users view a recipe and rate it.
8. The system update recipe information to the database.
9. Free users comment on a recipe.
10. The system update recipe information to the database.
11. Free users save a recipe to their favorite lists.
12. The system update users' account's information to the database.

3.2.2 Alternative Flows

3.2.2.1 Edit flow

7. Free users open their own recipe.
8. Free users modify recipe.
9. The system update recipe information to the database.
10. The flow returns to basic flow

3.2.2.2 Incomplete flow

3. Users not entering the necessary information for the recipe.
4. The system prompts users to fill in the missing information.
5. Users refill all missing information.
6. The flow returns to basic flow.

3.2.2.3 Premium flow

2. Free users choose to upgrade to premium account.
3. Free users pay membership.
4. The system verify payment.
5. The flow returns to basic flow.

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3.3 Special Requirements

- 3.3.1 *Payment logics for premium upgrading.*
- 3.3.2 *Input processing logics for preventing invalid recipes' contents.*

3.4 Preconditions

- 3.4.1 *Users has already logged in to the application.*
- 3.4.2 *Users not logged in with guest account.*

3.5 Postconditions

- 3.5.1 *The system have new recipe that is available for other users to view, rate, comment and save to favorite lists.*

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4. Use-Case ID: UC-04

4.1 Use-Case Name: Premium Usage

4.1.1 Brief Description

This use case allows free users to post, share, rate, comment, and save their favorite recipes. It also allows users to upgrade their accounts to premium and .

4.2 Flow of Events

4.2.1 Basic Flow

1. Premium users logs into their accounts.
2. Premium users using AI chatbox.
3. The system stores chat history to database.
4. Premium users return to home screen.

4.3 Special Requirements

4.3.1 Message processing logics for efficient calling LLM API.

4.4 Preconditions

4.4.1 Users has already logged in to the application.

4.4.2 Users not logged in with guest account.

4.4.3 Users already upgraded to premium account.

4.5 Postconditions

4.5.1 The system passes reply of users' messages generated by AI to users' chat box.

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5. Use-Case ID: UC-05

5.1 Use-Case Name: Moderation

5.1.1 Brief Description

This use case allows moderators to approve or decline user-submitted recipes, manage recipe comments and moderate users' accounts.

5.2 Flow of Events

5.2.1 Basic Flow

1. The moderator logs into their moderator account.
2. The moderator navigates to the recipe approval section.
3. The moderator reviews a user-submitted recipe.
4. The moderator approves or declines the recipe.
5. The system updates the status of the recipe accordingly.
6. The moderator reviews and manages comments on recipes.
7. The system updates recipes' state.

5.2.2 Alternative Flows

5.2.2.1 Inappropriate content flow

6. The moderator navigates to newly added recipes or comments section.
7. The moderator marks a recipe or comment for review if it seems to contain inappropriate content.
8. The system highlights the marked recipe or comment for warning.
9. The moderators review the recipe or comment and apply the corresponding penalties by ban the user or remove the recipe/comment, e.t.c
10. The system updates the corresponding information to database.
11. The flow returns to basic flow.

5.2.2.2 Reaudit flow

6. The moderator navigates to newly banned users or removed recipes/comments section.
7. The moderator unban users or restore recipes/comments if it is wrong penalties.
12. The system updates the corresponding information to database.
13. The flow returns to basic flow.

5.3 Special Requirements

None.

5.4 Preconditions

5.4.1 The moderator is logged into their moderator account.

5.5 Postconditions

5.5.1 The status of user-submitted recipes and comments are updated based on the moderator's actions.

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6. Use-Case ID: UC-06

6.1 Use-Case 5: Administration

6.1.1 Brief Description

This use case allows administrators to manage user accounts (by add/remove moderators) and system's state.

6.2 Flow of Events

6.2.1 Basic Flow

1. The administrator logs into administrator account.
2. The administrator navigates to profile screen.
3. The administrator requests for system's statistics about number of active users, number of new users, e.t.c.
4. The system generates corresponding statistics in the current month and some previous months.
5. The administration navigates to the user management section.
6. The administrator remove some moderators and add some new moderators.
7. The system updates moderators' permissions.

6.3 Special requirements

None.

6.4 Preconditions

- 6.4.1 *The administrator is logged into their administrator account.*

6.5 Postconditions

- 6.5.1 *User accounts and system settings are updated based on the administrator's actions.*