CookItUp

TEAM:07

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PROBLEM STATEMENT

- The problem at hand is the inefficiency and inconvenience in traditional recipe apps lack advanced features like accurate image recognition technology, making it difficult for users, especially those with specific dietary needs or celebrating events, to discover tailored recipes effortlessly.

- There is a clear demand for an innovative solution, exemplified by CookItUp, which seamlessly combines advanced image recognition with a user-friendly interface to enhance the ease and precision of discovering and planning meals.

LITERATURE SURVEY

Recipe Book

- Shake N Make and Snap N cook
- Share recipes
- Displaying certain cooking tips
- 27*7 cooking contest

SuperCook

- Recipe in 20 different languages.

Tasty

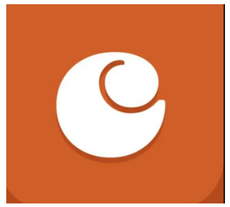
- Step-by-step instructions of recipe.
- Save recipes for future.
- App will keep phone awake during whole cooking process.

Fit Recipes

- Diet plan
- Search recipes based on occasion.

Cookpad

- Recipe uploading by user.
- Posting images for review



Cookd

- Search using ingredients, meals
- Chat assistant.

Title: Recipe Recommendation Based on Ingredients Detection Using Deep Learning.

- This paper uses a CNN model to recognize food ingredients and a recipe recommendation algorithm based on detected ingredients to suggest cooking recipes.

- Technology used: CNN-based Resnet50

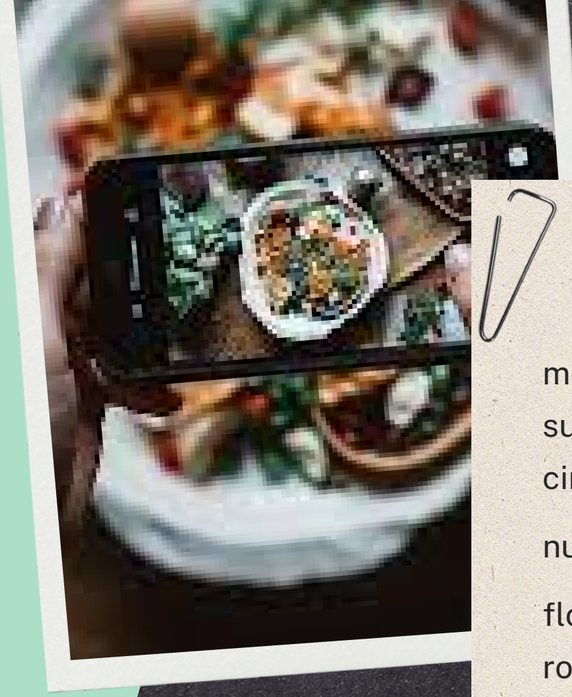
- Selected 19 cooking recipes against 32 food ingredients and developed a unique algorithm for recipe recommendations based on ingredients detection.

- Limitation: The CNN model cannot classify multiple objects. That means it can only recognize a single food ingredient at a time.

OBJECTIVE

- CookItUp simplifies the recipe discovery process, allowing users to effortlessly find recipes through ingredient photos.

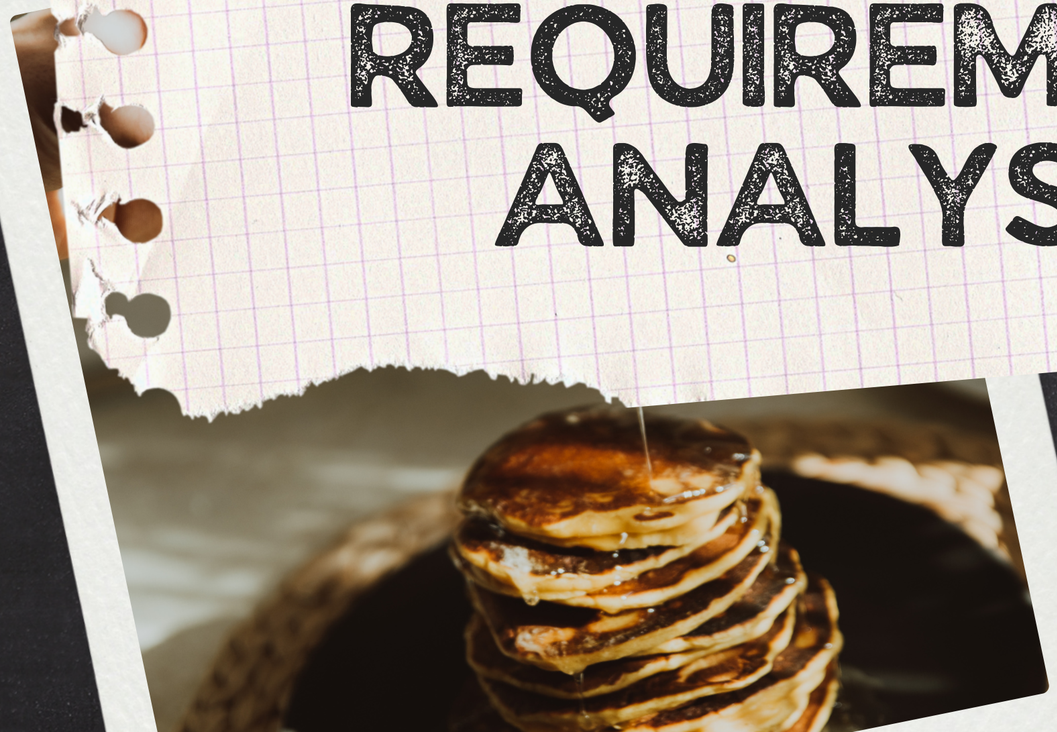
- The app's advanced image recognition accurately identifies ingredients, offering features like filtering recipes based on dietary preferences, occasions, and calorie requirements.



INGREDIENTS

medium apples	4
sugar	1/2 cup
cinnamon	1 teaspoon
nutmeg	1/4 teaspoon
flour	1/2 cup
rolled oats	1/2 cup
brown sugar	1/2 cup
softened butter	1/2 cup
salt	a pinch

REQUIREMENT ANALYSIS



FUNCTIONAL REQUIREMENTS

- Image capturing
- Voice searching
- Filter: Diet,Occasion,Meal
- Recipe Upload
- Cooking Timer
- Chatbot
- Rating and Review
- Share Recipe
- Shopping List

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1

Performance Requirements

2

safety Requirements

3

Security Requirements

4

Software Quality Attributes

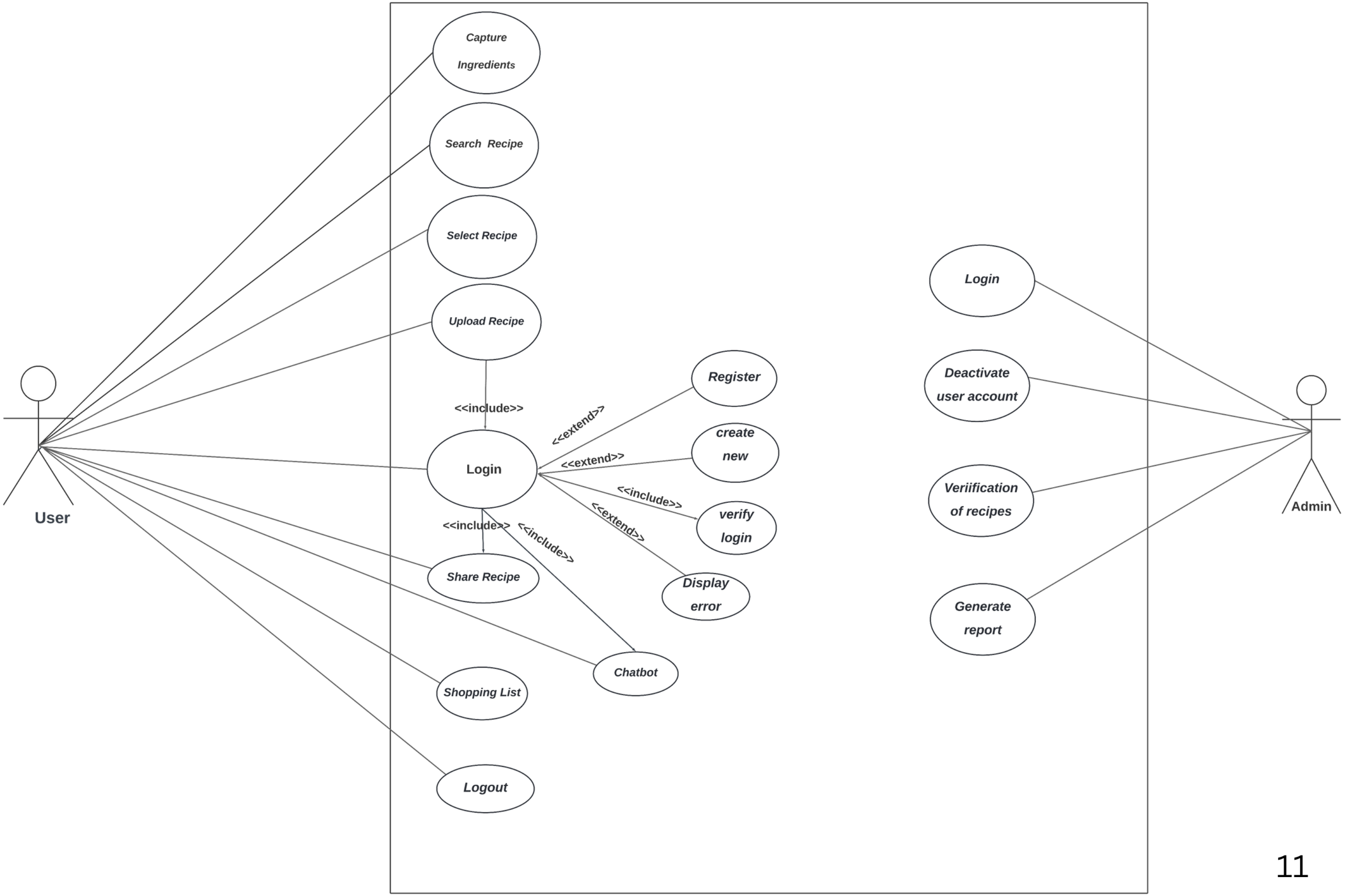
5

Customer Support

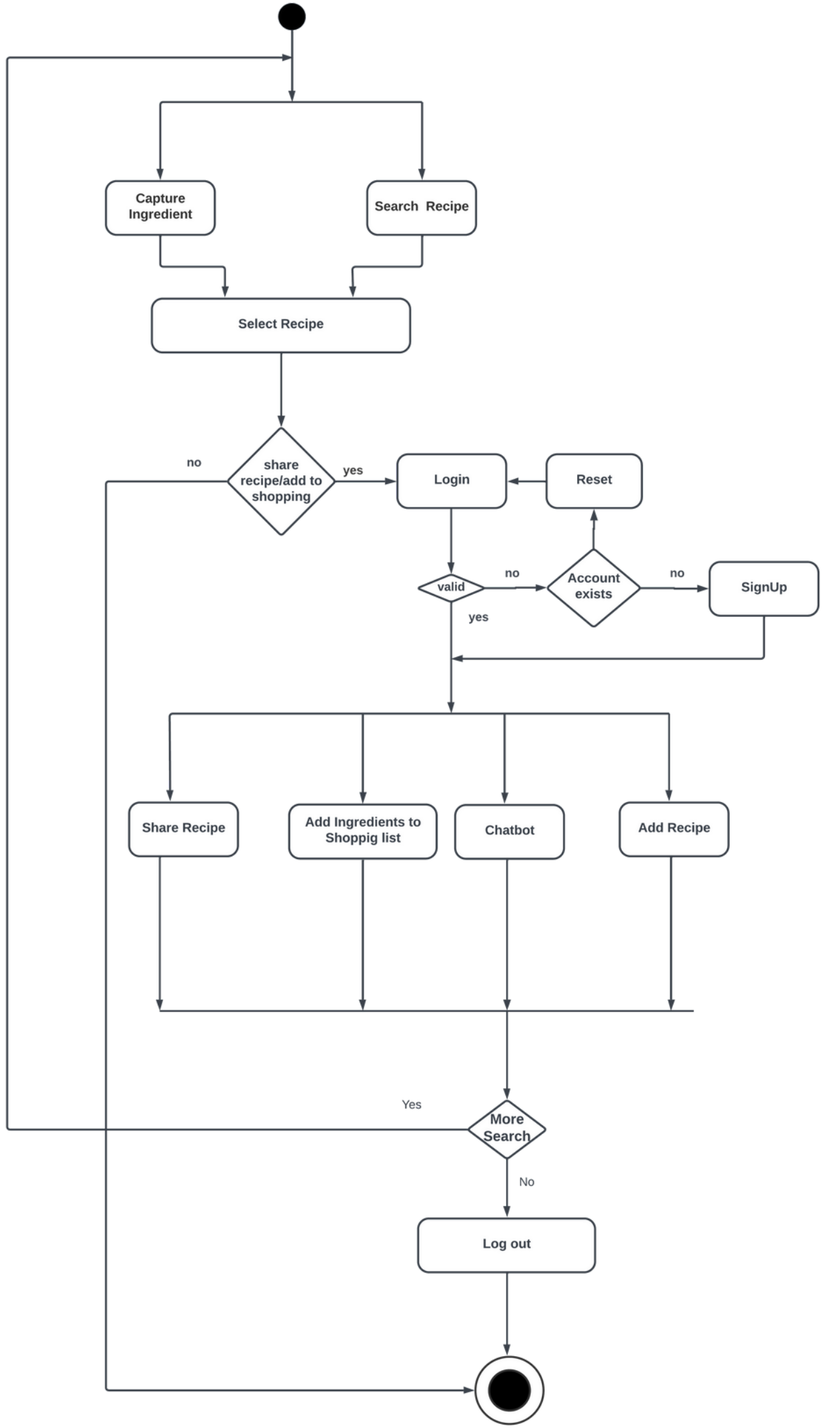
NON-FUNCTIONAL REQUIREMENTS

DESIGN

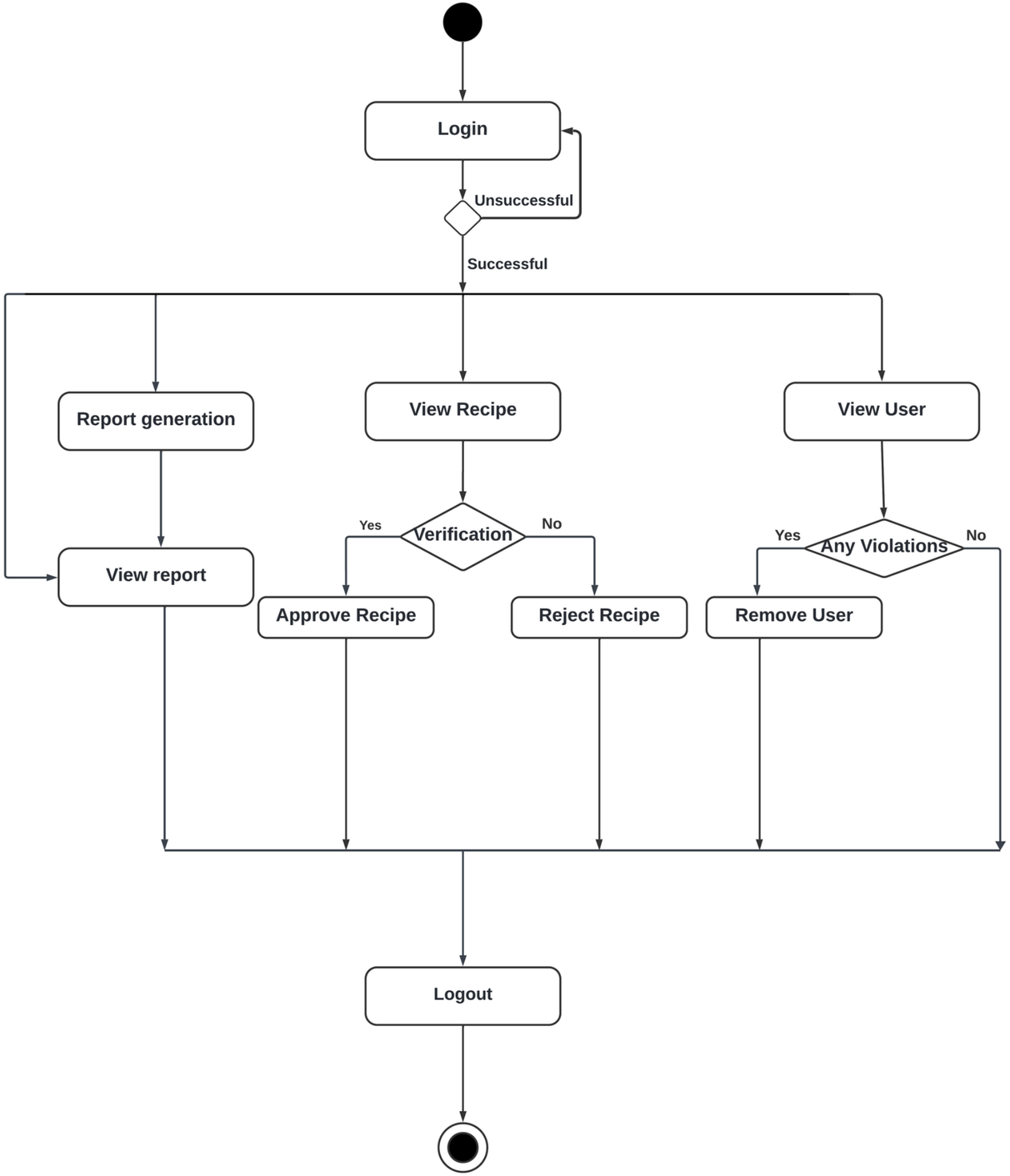
USECASE DIAGRAM



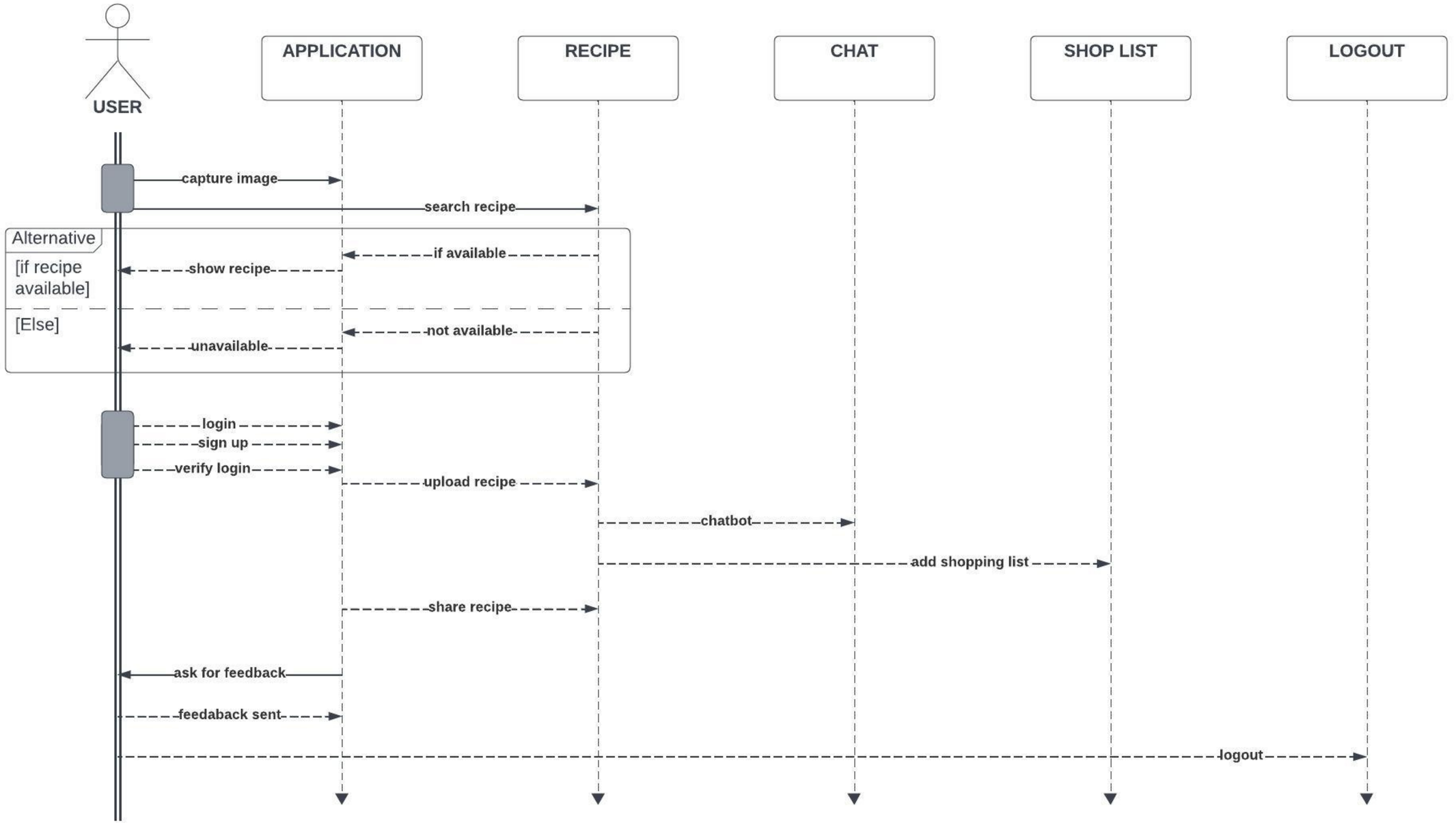
ACTIVITY DIAGRAM : USER



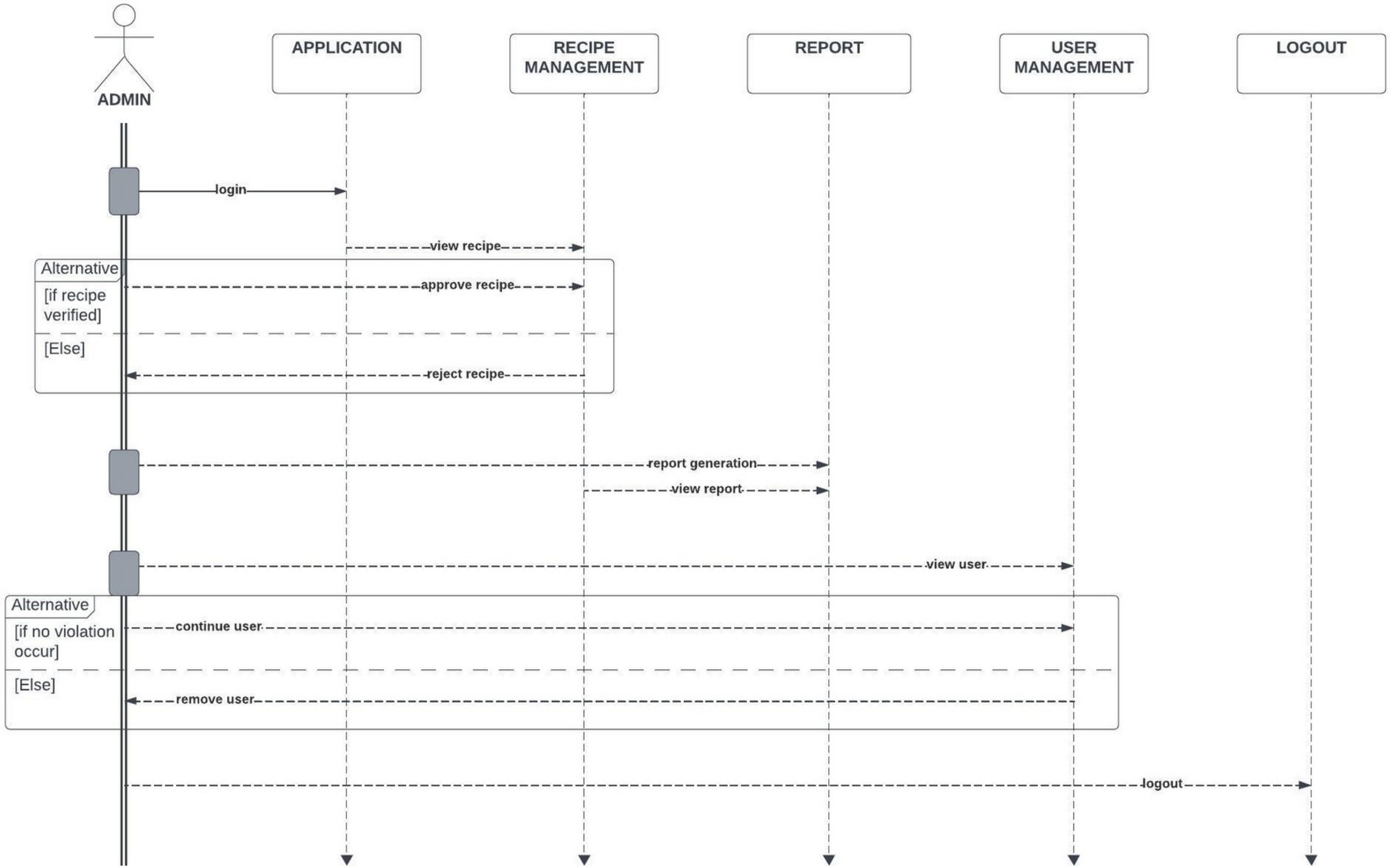
ACTIVITY DIAGRAM : ADMIN



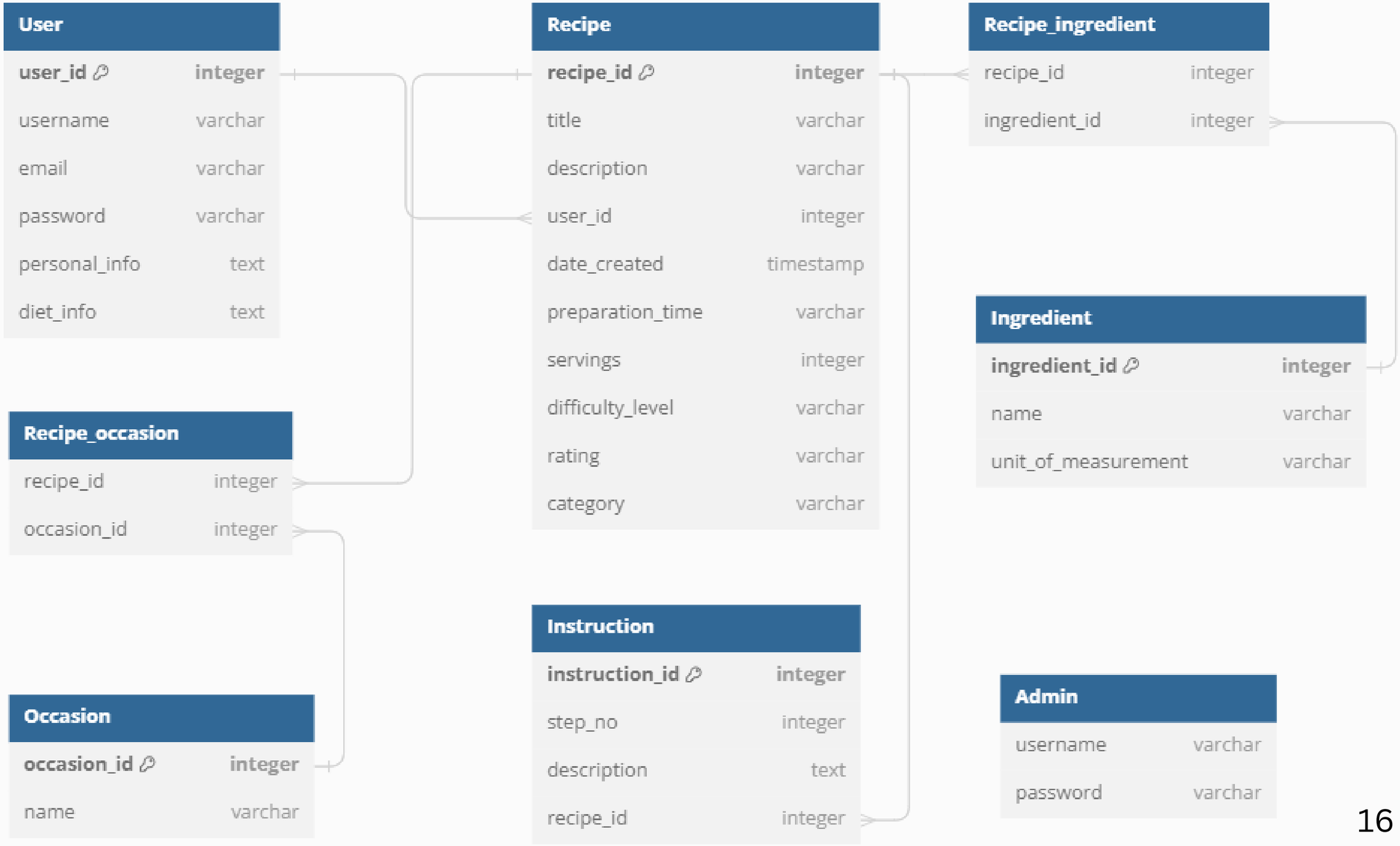
SEQUENCE DIAGRAM:
USER



SEQUENCE DIAGRAM: ADMIN



SCHEMA DIAGRAM



TECHNOLOGY STACK

TOOLS USED

- **Github Link:** https://github.com/CookIt-Up
- **Trello:** https://trello.com/b/DwhQ4Xzs/cookitup
- **Figma:** https://www.figma.com/files/team/1301830228330137599
- **Lucidchart:** https://lucid.app/folder/invitations/accept/inv_f3aa604d-4f03-43c7-9d20-678e0ea401f5

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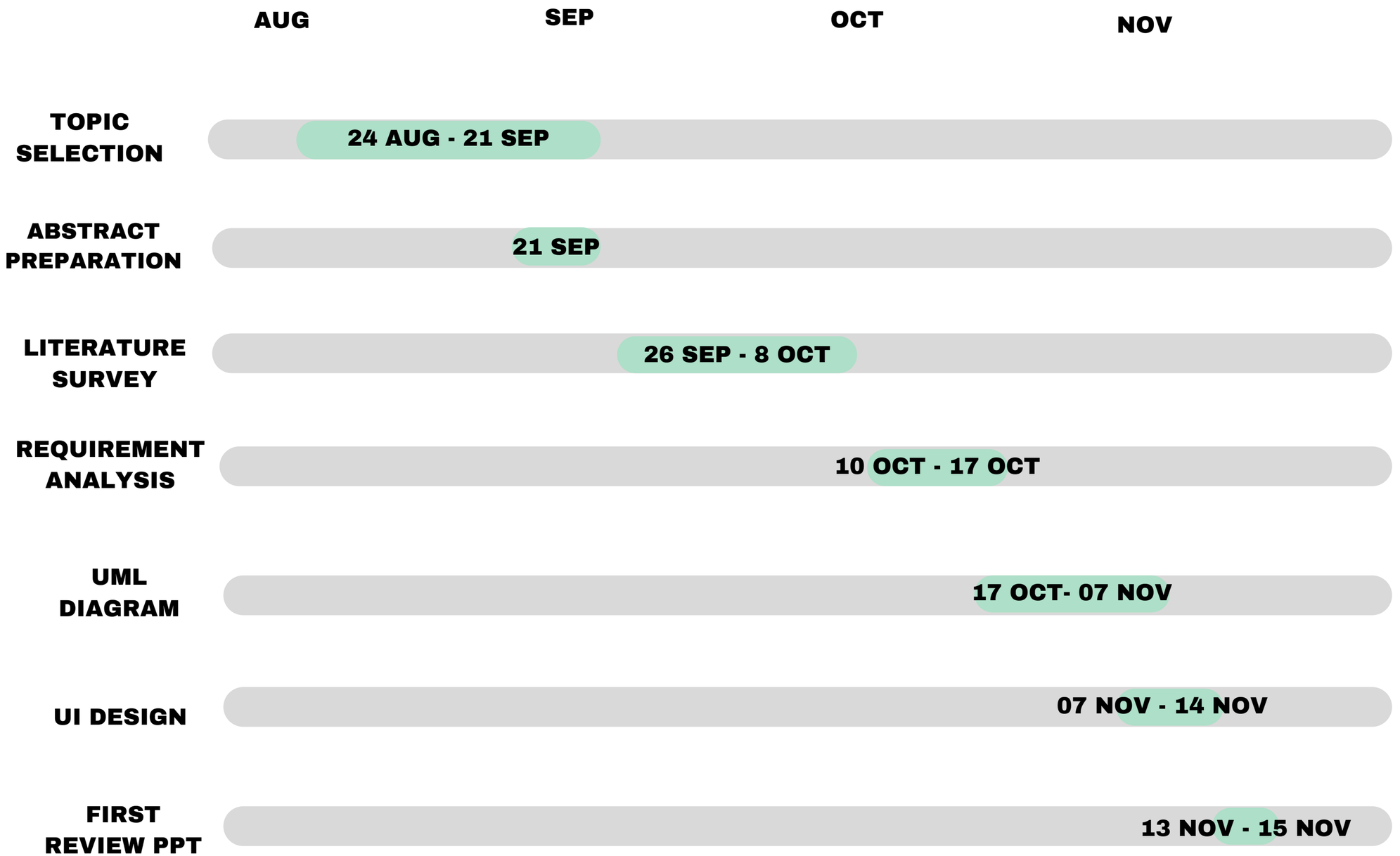
GANTT CHART


AUG
SEP
OCT
NOV
TOPIC SELECTION
24 AUG - 21 SEP
ABSTRACT PREPARATION
21 SEP
LITERATURE SURVEY
26 SEP - 8 OCT
REQUIREMENT ANALYSIS
10 OCT - 17 OCT
UML DIAGRAM
17 OCT- 07 NOV
UI DESIGN
07 NOV - 14 NOV
FIRST REVIEW PPT
13 NOV - 15 NOV

THANK YOU