RecyPy:
Use Case Models

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Introduction

RecyPy is a web application used for sharing recipes. Similar to a cross between a social media app and a recipe database, in this system users will be able to create an account. Using this account, they will be able to post their own recipes, as well as "follow" other users or "star" their recipes. This creates a personalized experience for each user, as well as a foundation for further implementations, such as a rating system for individual recipes and the ability to categorize them. Users will be able to view a feed of recipes from the people they follow, as well as search new recipes in the search bar.

This document provides a working set of use case diagrams for the system, as well as use case descriptions for sufficiently complicated use cases.

Notation

In this document, standard use case diagram notation is used. Additionally, the following conventions are followed in use case descriptions.
- Lowercase letters, such as a), b), etc, denote different branches of a step; a branch may span multiple steps and can be followed by the lowercase letter.
    - For example, one continuous branch might go 4) a) b) -> 5) a) b) -> 6) a) b) a).
- Numbers indicate a sequence; this sequence may, in some cases, be nested with branches.
    - For example, two branches of a step may look like 3) a) -> 4) a) and 3) b) -> 4) b) 1) -> 4) b) 2).

Missing Use Case Descriptions

No full description is provided for the following use cases because they are straightforward and don't include many meaningful steps on the part of the user: Add Images, Login to Account, Log Out of Profile, View Own Recipes, Send Verification Email, Verify Information Validity, View Shopping List, and View Recipe. These use cases are important to the system, but are simple enough that they do not warrant use case descriptions.

Use Case 1: Recipe Sharing
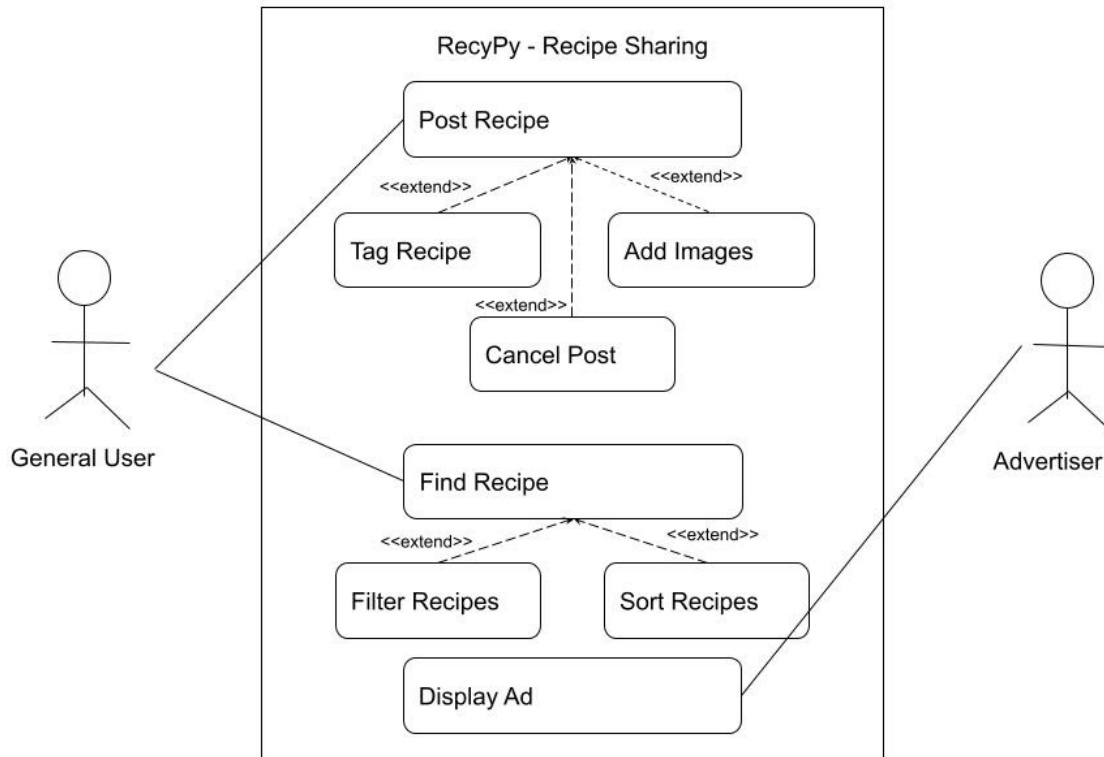
Use Case: Cancel Post	
Related Use Cases:	
Extends by: Post Recipe	
Steps	
Actor Actions	**System Response**
1) Cancel Post	2) Display are you sure prompt
3) a) Select cancel	4) a) Return to draft post
3) b) Select confirm	4) b) Delete post information

Use Case: Post Recipe	
Related Use Cases:	
Extended by: Tag Recipe, Add Images, Cancel Post	
Steps	
Actor Actions	**System Response**
1) Select post recipe button	2) Display post recipe prompt
3) Select recipe field	
4) Enter recipe text	
5) a) Tag Recipe	
5) b) Add no tags	
6) a) Add Images	
6) b) Do not attach any images	
7) a) Cancel Post	
7) b) Select submit post	8) b) Add post to system
9) Return to home page	

Use Case: Tag Recipe	
Related Use Cases:	
Extends: Tag Recipe	
Steps	
Actor Actions	**System Response**
1) Select tag recipe button	2) Display enter tags text field
3) Begin entering tag text	4) Recommend autofill tags from system
5) a) Select auto filled tag	

5) b) Finish typing new tag	
6) Repeat until all desired tags entered	

Use Case: Find Recipe	
Related Use Cases:	
Extended by: Filter Recipes, Sort Recipes	
Steps	
Actor Actions	**System Response**
1) Navigate to find recipes page	2) Display find recipes page
3) (*Optional*) Filter Recipes	
4) Select search bar	
5) Enter search text	
6) Select search	7) Search for results containing search text
	8) Display results of search
9) (*Optional*) Sort Recipes	
10) a) Select recipe	
10) b) Exit find recipes page	

Use Case: Filter Recipes	
Related Use Cases:	
Extends: Find Recipe	
Steps	
Actor Actions	**System Response**
1) Select filter recipes option	2) Display filter menu
3) a) Select required tags	

3) b) Select no tags	
4) a) Enter required criteria	
4) b) Select no required criteria	
5) a) Select reset	6) a) Remove all filters
5) b) Select confirm filters	6) b) Filter out search results not meeting criteria
7) Close filter menu	

Use Case: Sort Recipes	
Related Use Cases:	
Extends: Find Recipe	
Steps	
Actor Actions	**System Response**
1) Select sort recipes	2) Display sort recipes menu
3) Select sort criteria	
4) Select sort direction (ascending or descending)	5) Sort recipes according to sort criteria
6) View recipes in desired order	

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Use Case: Display Ad	
Related Use Cases: None	
Steps	
Actor Actions	**System Response**
1) Request user data	2) Provide advertiser with user data
3) Select ad to display based on data	
4) Send selected ad to system	5) Save ad to display to user

Use Case 2: Account Management
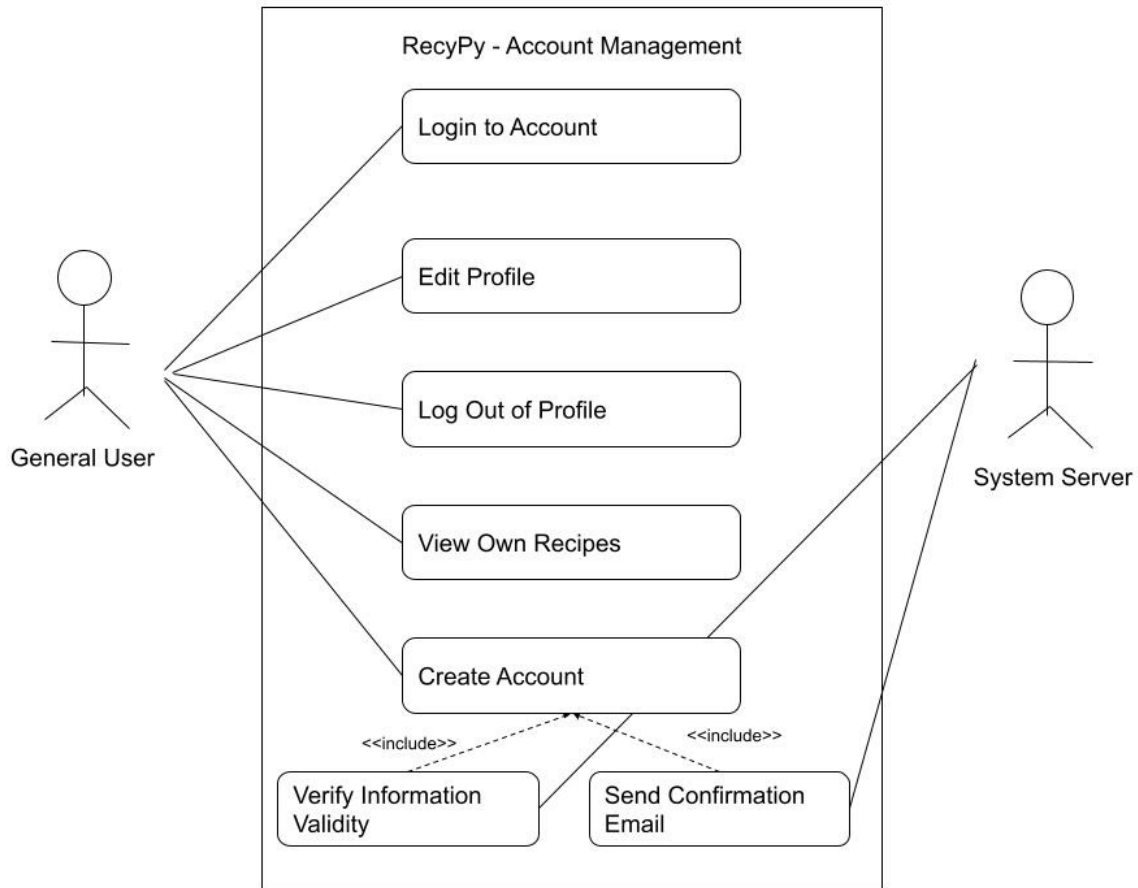
Use Case: Create Account	
Related Use Cases: None	
Includes: Verify Information Validity, Send Confirmation Email	
Steps	
Actor Actions	System Response
1) Select register option	2) Display registration fields
3) Enter personal information	
4) Enter password	
5) a) Select cancel	6) a) Clear personal information, exit page

5) b) Select confirm	6) b) 1) Verify Information Validity
	6) b) 2) Send Confirmation Email
7) Click link in confirmation email	8) Create account with the given information

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Use Case: Edit Profile	
Related Use Cases: None	
Steps	
Actor Actions	**System Response**
1) Navigate to profile page	
2) Select edit profile	3) Display edit profile page
4) Change desired personal information	
5) a) Select cancel	6) a) Revert changes to personal information
5) b) 1) Select confirm changes	6) b) 1) Request password
5) b) 2) Enter password	6) b) 2) Save personal information changes
7) Exit profile page	

Use Case 3: Shopping Lists
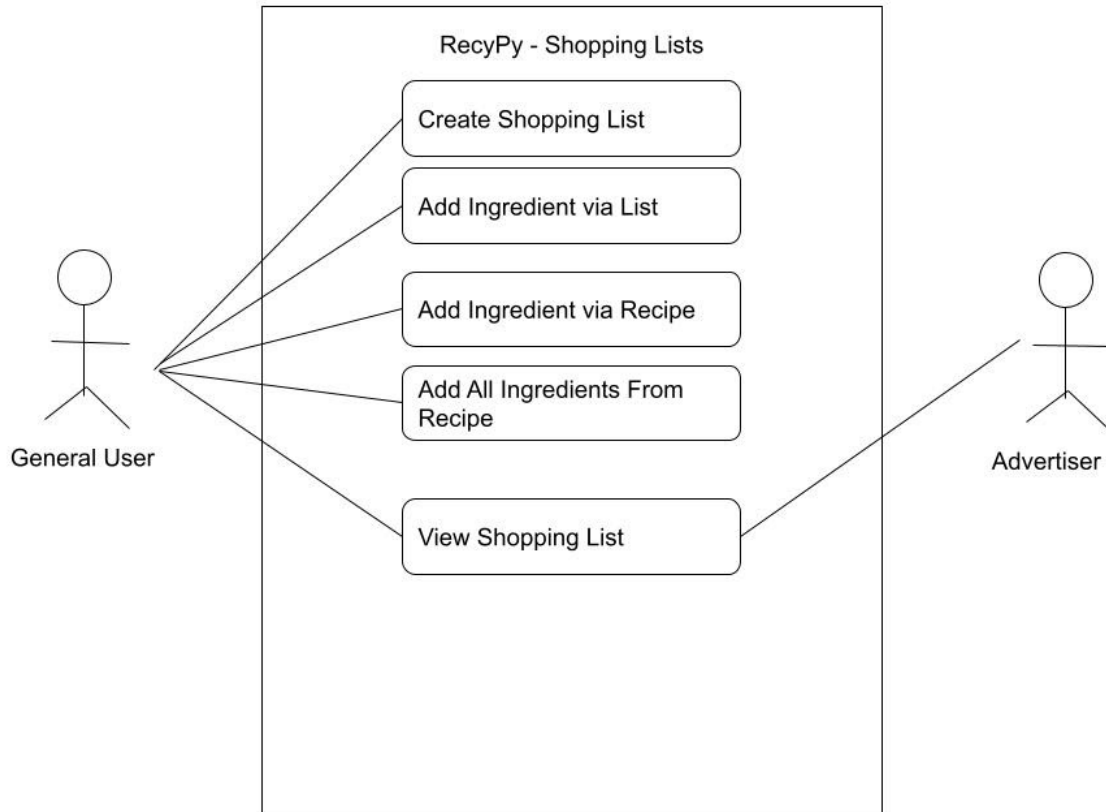
Use Case: Create Shopping List	
Related Use Cases: N/A	
Steps	
Actor Actions	**System Response**
1) Select create shopping list option	2) Create new shopping list
3) Enter shopping list title	
4) Enter shopping list items	
5) a) Select cancel	6) a) Delete List
5) b) Select save list	6) b) Save list for user
7) Exit shopping list menu	

Use Case: Add Ingredient via List	
Related Use Cases: N/A	
Steps	
Actor Actions	**System Response**
1) Select a shopping list	2) Display shopping list
3) Select add item	4) Display text field for new item
5) Enter new item	
5) a) Select cancel	6) a) Delete new element
5) b) Select confirm	6) b) Add new element to list
7) Exit shopping list menu	

Use Case: Add Ingredient via recipe	
Related Use Cases: N/A	
Precondition: User is viewing a recipe	
Steps	
Actor Actions	**System Response**
1) Navigate to ingredients section	
2) Select ingredient	3) Display add to shopping list prompt
4) Select shopping list to add ingredient to	
5) a) Select cancel	
5) b) Select confirm	6) b) Add new ingredient to list
	7) Close add ingredient prompt

Use Case: Add All Ingredients From Recipe	
Related Use Cases: N/A	
Precondition: User is viewing a recipe	
Steps	
Actor Actions	System Response
1) Navigate to ingredients section	
2) Select save all ingredients from recipe	3) Display add to shopping list prompt
4) Select shopping list to add items to	
5) a) Select cancel	
5) b) Select confirm	6) b) Add new ingredient to list
	7) Close add ingredient prompt

Use Case 4: View Recipe
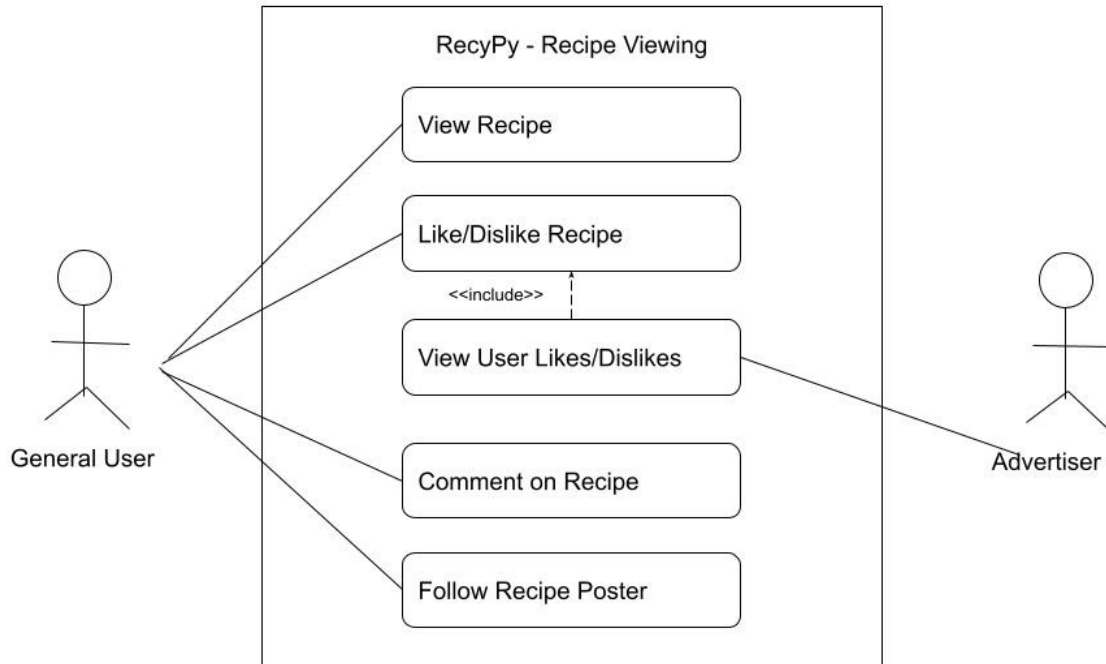
Use Case: Like/Dislike Recipe	
Related Use Cases:	
Included by: View User Likes/Dislikes	
Precondition: User is viewing a recipe	
Steps	
Actor Actions	**System Response**
1) Select like/dislike button	2) Display like/dislike confirmation prompt
3) a) Select undo like/dislike	
3) b) Move on from confirmation	4) b) Notify poster of like/dislike

Use Case: View User Likes/Dislikes	
Related Use Cases:	
Includes: Like/Dislike Recipe	
Steps	
Actor Actions	**System Response**
1) Query system for specific user	2) Find target user's likes/dislikes
	3) Send target user's likes/dislikes
4) a) Send confirmation message to system	
4) b) Send error message to system	

Use Case: Comment on Recipe	
Related Use Cases: N/A	
Precondition: User is viewing a recipe	
Steps	
Actor Actions	**System Response**
1) Select comment button	2) Display comment prompt
3) Enter comment text	
4) a) Select cancel	5) a) 1) Delete comment
4) b) Select confirm	5) b) 1) Post comment
	6) Remove comment prompt
	7) Display comment in comment section
8) Exit comment section	

Use Case: Follow Recipe Poster	
Related Use Cases: N/A	
Precondition: User is viewing a recipe	
Steps	
Actor Actions	**System Response**
1) Select poster name	2) Navigate user to target profile page
3) Select follow button	4) Change follow button to following
5) Exit profile page	