Hungerger  
Use-Case 1: Create Recipe

# Brief Description

This use case describes how a User creates a recipe that will be visible on the Home Page and User Profile Page.

# Actor Brief Descriptions

## User: Refers to any individual who has successfully created an account and logged into the social media application. They are responsible for creating and submitting the recipe by providing relevant details such as the image, description, ingredients (with their amounts), and dietary type. Wants accurate, fast entry and up-to-date prices as possible.

* 1. **A marketplace:** Represents the online external platform from which the application collects the prices of various ingredients. The marketplace provides the necessary data about ingredient prices, enabling the system to calculate the costs of the ingredients and the overall recipe. It functions as a data source for the application, providing up-to-date information on ingredient pricing for accurate cost calculation. Wants to be requested API call.

# Preconditions

The user must create an account and log into the system.

A collaboration must be made with an online marketplace (from the database at earlier stages) to collect up-to-date prices of the ingredients for accurate cost calculation.

The database system must be operational and capable of storing the recipe information submitted by the user.

There is an active network connection.

# Basic Flow of Events

1. The use case begins when User clicks on the “Create recipe” button.
2. The system displays a page with a “Submit” button and input fields for name, description, image, dietary type, ingredients, and amounts.
3. The user enters the recipe name and description.
4. The user uploads an image.
5. The user selects the dietary type (See Special Requirement WC-1 for existing dietary types).
6. The user enters the ingredients by typing the name and then selecting.
7. The system fetches the prices of the ingredients (from the database at earlier stages)
8. The user enters the amounts of the ingredients.
9. The system calculates the prices of the ingredients according to their amounts.
10. The system calculates the total price of the recipe.
11. The user clicks on the “submit” button.
12. The system validates all user entries.
13. The system records the recipe in the database.
14. The system shows a message regarding a successful operation.
15. The system shows the recipe on the user profile and the homepage.
16. The use case ends successfully.

# Alternative Flows

## Invalid Image

If in step 4 of the basic flow the user cannot upload the image due to its size, then

1. The system displays a message that indicates the accepted size (See Special Requirement WC-2 for the accepted image size) and asks the User to upload another image according to that size.
2. The use case resumes at step 4.

## Ingredient not found

If in step 6 of the basic flow the user cannot find the ingredient, then

1. The system displays a “not found” message.
2. The use case ends with a failure condition.

## No response from marketplace

If in step 7 of the basic flow the system cannot fetch the amounts, then

1. The system displays a “cannot connect to the server” message.
2. The use case ends with a failure condition.

## Missing entry

If in step 12 of the basic flow if one of the User inputs is missing, then

1. The system shows a message that indicates a missing entry and asks the User to complete it.
2. The use case resumes at step 2

## Invalid amount

If in step 8 of the basic flow, the User enters an amount that cannot be created (See Special Requirement WC-3 for valid amounts), then

1. The system shall display a message indicating the accepted amount interval.
2. The use case resumes at step 8.

## No response from the System

If in step 11 of the basic flow, the System lost connection and cannot interact with the database, then

1. The system shall display a message “Network unavailable - try again later”
2. The use case ends with a failure condition.

## Cancel

If at a point prior to step 11 in the basic flow, the User selects “Cancel”, then

1. The system shall display a message indicating that creating a recipe was canceled.
2. The use case ends.

# Subflows

No subflows are present.

# Key Scenarios

## Create recipe

1. Basic flow, step 1

## Show recipe

1. Basic flow, step 1

# Post-conditions

## Succesful Completion: Recipe is saved. Prices of the ingredients and the total price of the recipe are correctly calculated. The database is updated. A Post is generated on the User profile page and the Home page.

## Failure Condition: The logs have been updated accordingly.

# Special Requirements

**[SpReq: WC-1]:** The existing dietary types are regular, vegan, vegetarian, gluten-free, and keto.

**[SpReq: WC-2]:** The accepted image size is 50 M

**[SpReq: WC-3]:** The valid amounts of the ingredients are in kg metric, and they are between 0,10-2.