

Ideation document

 otherMeal

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# Overall Explanation

The application allows users to find recipes that would fit their preference for daily meals. The software will remember the users preferences in meals by tracking their selections and saved ingredients that they use frequently.

## Why this application

I want to build this applications prototype to encourage people in learning more about cooking. Assist them in cooking meals that they would like to make daily by using AI/ or machine learning to find the best alternatives that would suit them.

By making this application I hope to learn more about healthy alternatives to my daily meals and what is the most common meals that people would like to make. Technically wise I want to learn how to apply AI to find users preferences using reinforced learning. Allowing the users to personalize their own profile with their most favorite foods.

## The Application

The application encourages and guides people how to make new recipes like the ones they make daily.

## Target Audientce

People who want to improve their cooking or want a change in their daily meals.

# Functional Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Moscow priority | Must | Should | Could | Would |

|  |  |  |
| --- | --- | --- |
| Functional requirement nr. | Functional requirement description | Moscow  MSCW |
| Fr.1 | Registration |  |
| Fr.2 | Selecting ingredients that you own |  |
| Fr.3 | Meal recommendation |  |
| Fr.4 | Meal search by name |  |
| Fr.5 | Meal search by ingredients |  |
| Fr.6 | Selection tracking |  |

* System allows user to register.
* System requests the user to select main ingredients.
* System recommends user meals from the ingredient preference.
* System should be able to find meals via name or ingredient.
* System should recommend user meals based on their viewing habits.
* Setting up a user profile based on preferred recipes and ingredients they would like.

# Specifics

1. What problem does it solve?
   1. It encourages people to try different recipes, not requiring them go buy specific ingredients for the wanted recipe.
2. How does it solve it?
   1. The application finds matches that are similar to what you have done before and suggesting an extra ingredient.
   2. The application finds a recipe from the ingredients that you have or use most frequently.
   3. It finds recipes that have same ingredients that the user has used before.
3. Who is it for?
   1. It’s for people who are struggling to change their meals.
   2. People who want to cook a meal from ingredients at home.
4. Why is your solution the best?
   1. Encourages people to cook.
   2. Encourages to try new ingredients.
   3. Encourages healthy lifestyle.
5. How AI/data used?
   1. AI:
      1. Profile personalization with recipe suggestions to users liking.
   2. Machine Learning:
      1. Users select which ingredients they prefer and choose the dishes they would like to make or don’t.
6. What data sets does it use?
   1. Recipe data retrieved from Kaggle data sets

Link - https://www.kaggle.com/datasets/kaggle/recipe-ingredients-dataset

1. What is the possible positive and negative impact?
   1. Good / Encourages people to vary their usual meals and encourage improving their cooking skills.
   2. Negative / Lack of diverse food from different countries.