Python Programming

Recipe for Users Development

Proposal

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1. Introduction

1) Background

As the number of young people living alone, especially college students, has increased, many of them often struggle to properly prepare their meals due to busy schedules or lack of time and ingredients. Furthermore, with the advancement of food delivery apps, there is a growing preference for convenient delivery meals over cooking at home. Consuming only stimulating and limited food options can easily expose young people to nutritional imbalances and various diseases such as adult illnesses. To address this problem, a program is needed that recommends recipes that can be easily and conveniently prepared using ingredients at home, allowing young people living alone to have healthy and balanced meals.

2) Project goal

The goal is to create a program that analyzes the ingredients customers have on hand and recommends easy recipes that can be prepared with limited ingredients, allowing them to make healthy meals.

3) Differences from existing programs

Our approach is different from the traditional recipe recommendation methods seen on the internet or various TV programs, as they provide absolute recipes without considering the customer's ingredient availability. Many customers find it challenging to follow these recipes because they lack the necessary ingredients. We, on the other hand, aim to accurately assess the customer's ingredient inventory and recommend recipes that align with those ingredients. This way, we prevent customers from being unable to cook due to ingredient unavailability, setting us apart from existing recipe recommendation methods.

2. Functional Requirement

1) Function 1 Analyzing the customer's ingredient inventory.

- Functionality to determine the ingredients customers have on hand.

2) Function 2 Matching recipes that can be prepared

with the customer's available ingredients.

- A feature that matches the customer's gathered ingredient inventory with the ingredients in recipes and outputs only the recipes that have matching ingredients.

3. Schedule

Work	11/3	11/8	11/10	11/15	11/20	11/27	12/1	12/15	12/22
Proposal	■								
Text File	■	■	■						
Source Code		■	■						
Function1		■	■	■					
Feedback1			■	■					
Function2				■	■				
Feedback2				■	■	■			
Feedback						■	■	■	
Final Report						■	■	■	■