

PROJECT PROPOSAL

Problem Prompt:

As a student's we always have lots on our to-do list during crunch times like assignment submissions or exam days, cooking meals or thinking what to cook can be a challenge. My application aims to solve this problem by efficiently suggesting recipes with the based on cook-times. Also many times we only have certain ingredients in our fridge, I am also planning to provide users option to select ingredients and recipes will be displayed in accordance.

I am planning to build a **"Cooking Made Easy"** mobile application, where any user mainly students can search for food recipes based on their preferences. The target users for this application are college students and fitness enthusiasts. My main focus is on delivering to college students who have time crunch and fitness enthusiasts who require nutritious meals from a limited source of ingredients. This application helps with organizing the user's favorite meals so that they can come back anytime and look for that meal's recipe. Also many users who are trying to gain or lose weight, our application provide tab to check 1. Daily calorie requirements 2. BMI of user 3. Ideal Weight based on users' input.

Services to be used:-

1. Tasty APIs:-



Link -> <https://rapidapi.com/apidojo/api/tasty/>

We will be using multiple APIs from Tasty to accomplish the requirements in our application, I have listed the endpoints down below.

1. To get all recipes (recipes/list) GET
2. To support autocomplete in search (recipes/autocomplete) GET
3. To display tags to assist user selection (tags/list) GET
4. List latest feeds about new food, recipes (feeds/list) GET

2. Fitness Calculator:-



Link -> <https://rapidapi.com/malaaddincelik/api/fitness-calculator/>

This will allow users to check their daily required calorie intake to gain or lose weight and it will also allow users to check their ideal weight and BMI based on their inputs like gender, sex, height and weight.

1. To check Calorie requirements (/dailycalorie) GET
- To check BMI and ideal weight (/bmi and /idealweight) GET

3. Microphone of device:-

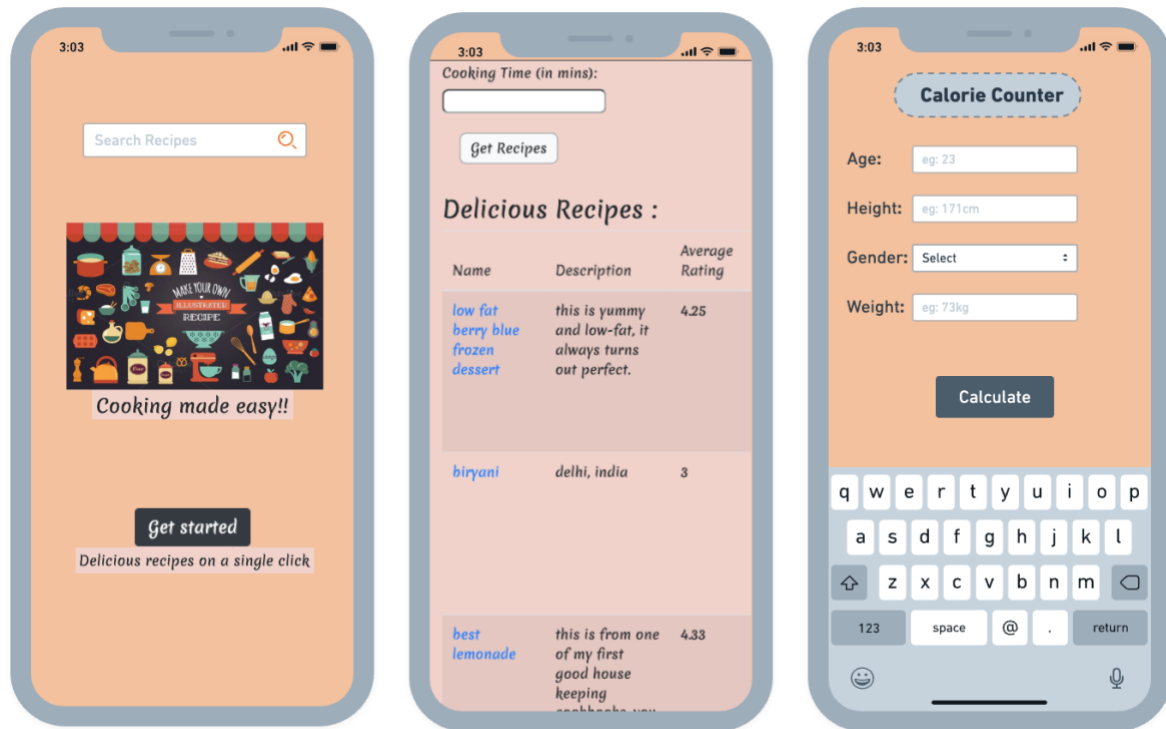


We will allow user to use microphone to enter text in search bar to find recipes. Users can use keyboard for input or they can use Speech-to-text button.

Planned Output:-

The main objective of this application are as follows:-

1. Provide options for users to filter recipes based on cooking time and also the number of steps required to cook any recipe.
2. Allow users to set filters on ingredients and the number of ingredients required to make any recipe from scratch.
3. Provide user tabs to check their Calorie requirements or Ideal Weight based on their age, gender, height and weight.



Project Timelines*:-

Task	Time Allotted	Progress	Remark
UI Design	5 hrs	In Progress	3 screens finalized
Landing Page	4 hrs	Pending	
Tab Bar	3 hrs	Pending	
Speech-to-text integration	6 hrs	Pending	
Recipes Page	6 hrs	Pending	
Recipes APIs integration	5 hrs	Pending	
Tags API integration	3 hrs	Pending	
Search API integration	3 hrs	Pending	
BMI Page	5 hrs	Pending	
BMI API integration	2 hrs	Pending	
Calorie Counter Page	5 hrs	Pending	
Calorie API integration	2 hrs	Pending	
User Favourite Page	8 hrs	Pending	
Save user favourites	8 hrs	Pending	
Unit testing of Pages	12 hrs	Pending	
Integration testing with APIs	2 days	Pending	
End-to-End testing	2 days	Pending	

Major Components

*Note:- Above mentioned timelines are tentative, it might change in based on issues faced while development or API integrations.