

# **PROJECT PROPOSAL : "RATATOUILLE"**

**COURSE CODE: CSE 410**  
**COURSE TITLE: MOBILE APPLICATION**  
**DEVELOPMENT**

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# 1. Project Overview

## 1.1 Project Title and type

**Project name:** *"Ratatouille"* - A Food Making App

**Tagline:** "Unleashing your inner chef."

**Project Type:** Mobile Application (Android)

## 1.2 Objectives

The goal of the Ratatouille app is to simplify the process of cooking by offering personalized recipes, guided cooking instructions, ingredient management, and a community-driven platform for food lovers. Users will be able to discover new recipes, create their own, and get step-by-step guidance while preparing meals. Additionally, the app will provide personalized diet plans tailored to each user's health goals and dietary preferences, helping them maintain a balanced diet with ease.

## 1.3 Target Audience

- **Home Cooks:** Anyone looking to experiment with new recipes or improve their culinary skills.
- **Busy Professionals:** Those who want quick, easy-to-make meals without sacrificing flavor or nutrition.
- **Health-Conscious Individuals:** People with dietary preferences or restrictions (e.g., vegan, keto, gluten-free) seeking recipes that align with their needs.
- **Food Enthusiasts:** Individuals passionate about cooking, who want to explore global cuisines and share their creations

- **Individuals with Dietary Restrictions:** Users with food allergies or sensitivities (e.g., gluten, lactose) who need tailored meal plans and recipes that are safe for their consumption.
- **Fitness Enthusiasts:** People seeking to optimize their diet for fitness purposes, such as muscle building, fat loss, or athletic performance, who can benefit from customized nutritional plans.
- **Weight Management Seekers:** Individuals aiming to lose or manage weight by following a balanced, calorie-controlled diet.
- **General Users Seeking a Healthier Lifestyle:** Anyone looking to make better food choices through convenient meal planning and access to nutritious recipes.

## 2. Problem Statement

In today's fast-paced world, many people struggle to find the time and resources to cook meals from scratch. The lack of proper recipe curation, meal planning, and real-time assistance can often deter individuals from engaging in home cooking. Moreover, the variety of dietary needs and preferences (e.g., vegan, gluten-free, keto, or low-carb) make it challenging to find recipes that fit personal lifestyles and health goals. Additionally, people aiming to manage their weight, improve their nutrition, or follow specific diet plans often face difficulty in sticking to a consistent routine. Thus, a simple, intuitive, and personalized platform is needed to inspire and assist people in preparing food at home while offering tailored diet plans that support their individual health and wellness objectives.

### 3. Solution: Ratatouille App

Ratatouille is a comprehensive food-making app that helps users discover, plan, and cook meals in a personalized, guided manner. The app will provide recipe recommendations tailored to users' dietary preferences, nutritional goals

- **Recipe Discovery:** Browse a wide variety of recipes based on cuisine type, ingredients on hand, dietary restrictions, and cooking time.
- **Personalized Recommendations:** AI-driven suggestions based on the user's dietary habits, cooking skills, and food preferences.
- **Guided Cooking:** Step-by-step audio and visual instructions for every recipe, making it easy even for beginners to prepare meals with confidence.
- **Ingredient Management:** Integrated ingredient management helps users -generate shopping lists for items needed for the recipe.
- **Community Engagement:** A social platform within the app allows users to share recipes, rate them, follow other chefs, and get inspired by a global community of home cooks and professionals alike.
- **Meal Planner:** Users can plan meals for the day, generate shopping lists, and track nutritional intake with ease.
- **Personalized Diet Plans:** Tailored diet plans help users meet specific health goals, such as weight loss, muscle gain, or managing dietary restrictions like vegan, keto, or gluten-free. The app adjusts meal plans and recipes to align with these individual goals, providing nutritional breakdowns for each meal.