

Recipe Generator Mobile App

Functional Specification

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# Section 1: Project Overview

## Introduction

The following is a Functional Specification for my Fourth Year Project ‘Recipe Generator Mobile App(RGMA).’ This functional SPEC will be explained through FURPS, covering all functional and nonfunctional requirements, Use cases, system architecture and the constraints for the Application.

## Scope

The RGMA will allow users to take pictures of various ingredients and create a recipe using AI to recognise the ingredients and machine learning to produce a recipe best suited to the user’s needs.

It will also have various other features such as Creating shopping list and providing healthier alternatives.

The app will have barcode scanning also implemented to scan ingredients if the camera can’t pick the item.

## 1.3 Audience

There are many applications available nowadays that help with recipe creation and nutritional help. However, people also want to be able to do mundane tasks quicker and quicker. With the ever evolving AI I plan to make an efficient replacements to the out of date Recipes apps, and implement a quick an accurate photo related app.

This will be targeted towards home cook chefs, people wanting specific recipes for diets and a way to manage all your food related needs for mother who want to know what they need without thinking.

# Section 2: Functional Specification (Functionality – F in FURPS)

## 2.1 Ingredients Identification

## 2.2 Recipe Recommendations

## 2.3 Shopping List Creation

## 2.4 Barcode Scanning

## 2.5 Healthy Alternatives.

## 2.6 User Profile

## 

# Section 3: Non-Functional Requirements

## 3.1 Usability

## 3.2 Reliability

## 3.3 Performance

## 3.4 Supportability

# Section 4: User Interface

# Section 5: System Architecture

# Section 6: Use Cases

# Section 7: Constraints and Assumptions

# Section 8: Testing and Validation

# Section 9: Appendices