

**NELSON MANDELA UNIVERSITY**

**School of Information Technology**

**Module Name (Module Code)**

**Bachelor of Information Technology (BIT)**

**Date**

***Assessment Name***

**Compiled by**

|  |  |  |  |
| --- | --- | --- | --- |
| **Lecturer** | **Student Name** | **Student Number** | **Date Submitted** |
|  |  |  |  |

Contents

[Plan to address objectives 2](#_Toc176593838)

[Project Scope 2](#_Toc176593839)

[Information Scope 2](#_Toc176593840)

[Functional Scope 2](#_Toc176593841)

[Communication Scope 2](#_Toc176593842)

[Business Requirements 2](#_Toc176593843)

[Hardware and Software Requirements 2](#_Toc176593844)

[Software Requirements 2](#_Toc176593845)

[Hardware Requirements 2](#_Toc176593846)

[Design Constraints 2](#_Toc176593847)

[Security Constraints 2](#_Toc176593848)

[Interface Constraints 2](#_Toc176593849)

[Performance Constraints 2](#_Toc176593850)

[High level use case diagram 3](#_Toc176593851)

[UML class diagram 3](#_Toc176593852)

[Relational database model diagram 3](#_Toc176593853)

[User interface design 3](#_Toc176593854)

# Plan to address objectives

The application will be used by users who have want to cook with what they currently have. After signing up and filtering their interests, a catalogue of recipes will be available to the user. It can then be further filtered based off the ingredients they select are currently available to them. The user will then be able to follow along with the recipe. (more info may be added here later.)

The project will improve upon the current recipe apps available. It will allow users to access an easy-to-use application which:

* Provides follow-along recipes
* Takes into consideration beginner skill levels
* Allows feedback on the recipe followed
* Provides assistance and clear instructions on each recipe

# Project Scope

## Information Scope

## Functional Scope

The following are a list of the features that are planned to be included in the app:

* Filtering recipes based off ingredients selected
* Filtering recipes based on dietary types and other factors
* Searching of recipes
* Meal Planning
* Saving recipes for later use and offline use
* User can login/register or use the application as a guest
* Generate reports for the system admin

Besides the features that wee want to include in the app we also hope to include the following:

* Creating Recipes
* Shopping list option
* Information on nutrition (Possible feature)
* Recipe reviews

## Communication Scope

The application will work over WIFI mainly and have limited functionality in an offline mode.

# Business Requirements

Users require an app

# Hardware and Software Requirements

## Software Requirements

The application will be developed using Visual Studio Code as the IDE

Flutter will be used for the development of the app within VS Code

Firebase will be used to handle the login and registration as well as the security covering them.

(What android is the min)

## Hardware Requirements

# Design Constraints

## Security Constraints

Login/Registration security will be handled via Firebase (add basic features)

## Interface Constraints

The interface of the app needs to be easy to use and not feature many navigation options that cause a user to become lost. But the app must not be too simple so that it sacrifices features.

Users should be given the opportunity to be able select a diet preference and have a section that recommends recipes that conform to the preferences and an area that allows users to explore new recipes.

## Performance Constraints

# High level use case diagram

# UML class diagram

# Relational database model diagram

# User interface design