

**NELSON MANDELA UNIVERSITY**

**School of Information Technology**

**ITPV302**

**Bachelor of Information Technology (BIT)**

**Date**

***Business Case***

**Compiled by**

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| **Lecturer** | **Student Name** | **Student Number** | **Date Submitted** |
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# The Problem(heading must be changed)

The modern way of life and prevalence of fast-food options available coupled with the difficulties of meal preparation, have led many people to prefer fast food as opposed to them cooking their own meals.

The internet has also provided numerous methods of finding recipes through various means(*The Best Cooking Apps of 2024*, n.d.). But these methods are often separate requiring different websites or apps to accomplish a simple task. We believe that if these various methods are brought together then the meal preparation task can be made easier.

According to online sources there are countless recipe apps and websites, but most have shortfalls that annoy a user and make them less likely to return to the app/website (Botev, 2018). Most recipe apps focus on filtering recipes based on metrics such as dinners, lunches etc, while this is useful it also fails to accommodate for the people that want to find recipes that they can make with the ingredients that they have at home.

Another major fact to consider is the abundance of different diets that restrict what people can or can’t eat. If an app that can cater to this need, then the app can be worthwhile pursuing as it will fill a gap in the market (Botev, 2018).

The problem will appear to individuals that want to cook at home using recipes that adhere to their diet and can be filtered based on available ingredients.

# Objectives

Some of the most common problems when it comes to cooking include dietary needs, time management, lack of ingredients, no motivation and lack of skills. Our project will address these issues along with others which affect the general home cook. The software solution proposed will solve this by doing the following:

* Meal plans based off user preferences
* Recipes can be filtered, by having a list of selectable ingredients
* Easy to follow instructions with timers, allowing the user to monitor the amount of time to complete a recipe
* Saveable recipes, allowing accessible recipes offline

# Background

(Literature Review)

Home cooks may run out of ideas on what to make, or they lack the ingredients to prepare a specific meal they had on mind. This amount of time spent preparing a meal also affects the eagerness to do it. This may lead to a lack of motivation to prepare a meal when there is no inspiration or if there is a time constraint (RDN, 2022).

Some users may also have specific dietary needs, but cannot stay consistent or plan meals properly. It is sometimes much easier to buy a take-out as it is far quicker despite being an unhealthier option at times. Therefore convenience is often the deciding factor on whether or not to prepare a meal, along with having the necessary ingredients (Monsivais et al., 2014).

Meals can also be simple, and adjustable depending on what is in the pantry. It would be much easier to prepare a meal if there was a recipe with the ingredients that the user has. This project plans to bring inspiration back to those who cook at home and show that simple recipes can be just as effective.

# Related Systems Analysis

Zanele’s System

Max’s System

SuperCook

Platform/s: Android / IOS, Windows / Mac, Web

Description: SuperCook is a recipe search engine. This search engine will take the ingredients that you select you have/want to use and will search for recipes that use those ingredients allowing people to use ingredients they have on hand(*SuperCook - Recipe Generator - Apps on Google Play*, n.d.).

Features that we want to incorporate: The ability to filter recipes by ingredients, and the further filtering under more options.

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| Figure 1: The Main Page of SuperCook(Supercook, n.d.)  [Figure Number] shows the main page of the website. The Feature that we want to avoid is that the user would have to select ingredients then only be able to refine the search to meal time, diet etc. |
| [Figure number] show that the results of filtering recipes based off of ingredients that the user chooses.  The recipes are not created/ maintained by SuperCook and are only links to the site that has the recipe. This leads to a feature that we want to avoid is to only have our app/website act as a way to find other sites.  Another feature we want to avoid is the results are sometimes singular focus recipes maning they focus on only the meat for example. |
| [Figure Number] shows the expanded options for filtering the recipes. This is a feature that we want to use for our app/website as adding additional filters such as meal time or diet is very important to appealing to a wide variety of people. |
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# Project Plan



Figure : The Roadmap for the project(ITPV302\_Project\_Plan, n.d.)

In the figure 1 above, is the current roadmap for the project. The major deliverables are laid out and along the way the minor deliverables are added. The minor deliverables relate to the delegation of the work to the different team members.

The main deliverables are as follows:

Project Proposal Submission

Business Case Submission

System Requirements, Specifications and Technical Design Submission

Implementation Documentation Submission

System Presentation

Final Documents and System Submission

Alternate:

The main deliverables and dates are shown in the table below:

|  |  |  |
| --- | --- | --- |
| Deliverable | Start date | End date |
| Project Proposal Submission | 5 August 2024 | 9 August 2024 |
| Business Case Submission | 26 August 2024 | 30 August 2024 |
| System Requirements, Specifications and Technical Design Submission | 23 September 2024 | 27 September 2024 |
| Implementation Documentation Submission | 14 October 2024 | 18 October 2024 |
| System Presentation | 4 November 2024 | 8 November 2024 |
| Final Documents and System Submission | 11 November 2024 | 15 November 2024 |

(need to caption table if used)

Each major deliverable requires that the minor deliverables be completed before it can be completed.

The work is split up evenly between the group members, the work done by a member is reviewed by the other members to ensure that the information is relevant and well structured.

Communication:

Discord – main line of communication

Outlook (email) – Backup line of communication if there is an issue with Discord.

# Risk Analysis

# Bibliography

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