ITPV302 Business Case

Students:

MNDAWENI, ZM
NAIDOO, MAX
ROGERS, NC

Result 92 %

Item	Description	Max	Score
Introduction	The introduction starts with describing the purpose of this document and what it will cover.	5	5
The Problem	This section should provide a general description of the problem you are addressing. Include information such as: •What the problem is – not the lack of software, but what is the actual real-world problem that you can help solve by providing software. •The domain of the problem (i.e. where it takes place) •Who is encountering the problem? Be as descriptive as you can.	10	10
Objectives	In this section you should list the real-world problem issues that your software intervention will address, e.g.: •Replace the paper-based note-taking system used by healthcare workers with a digital alternative. •Ensure that notes cannot get lost, by providing an off-line saving system. •Provide a central means by which to search through historic notes. Think of these as the main things that your system will do to address the real-world issue.	10	8
Background	This is the literature review section of the document. In order for reader to better understand the problem, this section must provide an overview of the problem area using existing sources, e.g. web references, conference papers, white papers, patents or journal articles. The idea with this section is that if a reader has no knowledge of the real-world problem area; this section should provide them enough background to understand the issue, e.g. an overview of the process that healthcare workers use when visiting patients in remote areas.	20	20
Related Systems Analysis	You are required to find (at least) 3 software-based systems which address the same issue as the one addressed by your proposed system or systems which use a similar process to what you envision for your system. For each related system you are required to provide the following: •The name of the system •Platform (e.g. web, Windows / Mac, Android / IOS, etc) •Description of the system •At least one screenshot. All screenshots must have properly numbered and worded captions. The text in your document must explicitly refer to it, e.g. Figure 1.1 demonstrates the login screen of System X. •A list of features / processes that you would like to adapt and incorporate into your system (i.e. the reasons why this system caught your eye) •A list of features / processes that you would like to avoid in your system. •Each related system should be properly referenced.	15	15
Risk Analysis	Identify (at least) 4 risks to your project. If you have time, add more, since the more you are able to identify at the start, the better you can plan for things to go wrong (and they usually do). For each risk, state which type of risk it is (acceptable, avoidable, minimizable or transferable) and how you will treat/handle the risk.	15	15
Project Plan	Your project plan should include the following information (at the very minimum): •Project and client name (make one up) •Delivery date and version •Milestones and deliverables •Clear task durations with start and end dates (using a Gantt chart) •Dependencies for tasks (i.e., should anything happen before this task can happen).	10	6
Referencing	Perform proper citation and referencing using the APA style.	10	10
Document Styling	Ensure consistency in the styling of your document, include elements such as headings, numbering, page numbers, etc.	5	3
Total		**100**	**92**

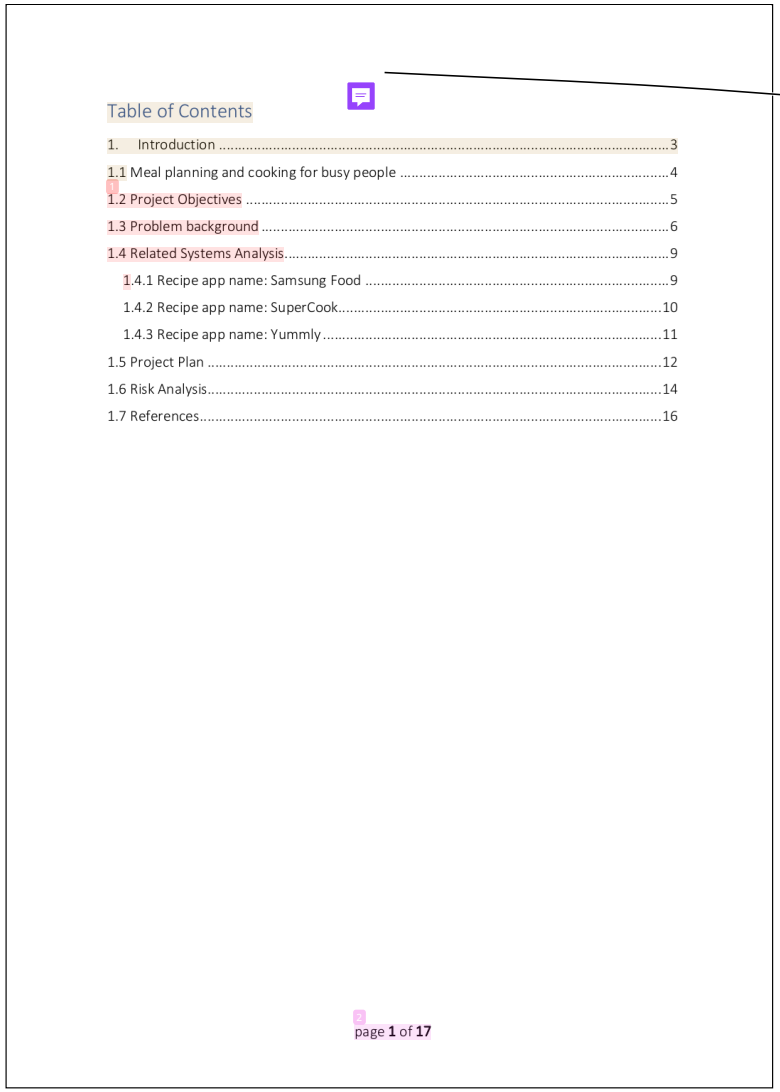

Table of Contents

1. Introduction 3
1.1 Meal planning and cooking for busy people 4
1.2 Project Objectives 5
1.3 Problem background 6
1.4 Related Systems Analysis 9
1.4.1 Recipe app name: Samsung Food 9
1.4.2 Recipe app name: SuperCook 10
1.4.3 Recipe app name: Yummly 11
1.5 Project Plan 12
1.6 Risk Analysis 14
1.7 References 16

Summary of Comments on Rogers Mndaweni Naidoo.pdf

Page: 3

Author: Bertram Haskins Subject: Sticky Note Date: 18/09/2024, 14:54:29
Good job on the table of contents.

Table of Figures

Figure 1. 1: Google Trend Graph for "Recipes" over a 5-year period (Google Trends, n.d.) 6
Figure 1. 2: Lack of Dietary Options offered by AllRecipes....8
Figure 1. 3: Intrusive and distracting ads on the page 8
Figure 1. 4: Samsung Food meal planner 9
Figure 1. 5: Samsung Food saving of recipes....9
Figure 1. 6: Samsung Food grocery list section 9
Figure 1. 7: SuperCook's ingredient filter....10
Figure 1. 8: SuperCook's favourites page with missing ingredient....10
Figure 1. 9: SuperCook's shopping list manager....10
Figure 1. 10: Yummly's nicely laid out Ingredients 11
Figure 1. 11: Yummly's shopping list manager 11
Figure 1. 12: Yummly's meal planner 11
Figure 1. 13: The Roadmap for the project (NathanTh3Gr3at, 2024)....12
Figure 1. 14: Diagram summary on Risk Analysis 15

List of Tables

Table 1. 1:The major deliverables of the project....13

Page: 4

Author: Bertram Haskins Subject: Sticky Note Date: 18/09/2024, 14:54:43
Also on the Table of Figures and List of Tables.

1. Introduction

This business case document aims to give a comprehensive overview of our proposed solution to the challenges of planning meals and cooking in today's fast-paced world. We aim to identify the various challenges that people face when preparing meals to then showcase the benefits of developing a recipe app that addresses these issues.

This document details our understanding of the problem domain and the proposed solution. This document includes 6 key sections. The problem section which provides a detailed description of the real-world problems faced by people. The project objectives section which provides the specific goals our app aims to achieve by solving the problems specified before. The problem background section which will go into the background of existing literature related to the problem that ultimately supports our proposed solution. The related system analysis section where we compare existing systems that are like our proposed system which show the advantages and unique features of our system. The project plan section where we present the project plan for our proposed system and lastly the risk analysis section detailing the potential risks associated with our project and how they can be mitigated.

Page: 5

Author: Bertram Haskins Subject: Highlight Date: 18/09/2024, 14:54:57

Author: Bertram Haskins Subject: Comment on Text Date: 18/09/2024, 14:55:11

Nicely done!

1.1 Meal planning and cooking for busy people

Cooking remains a beloved activity among many, with only 16% of South Africans stating that they do not enjoy cooking (Bashir, 2024). This indicates that most people do enjoy cooking and are most likely hindered by their busy daily routines and other obstacles. Despite this love for cooking, most people find meal planning and preparation to be a chore and a very overwhelming one at that. Consequently, people then resort to fast food and takeaway meals, which in the long run may greatly affect their health negatively and lead to additional spending.

The problem is most definitely not a lack of recipes, in fact, people have access to a variety of enormous recipe databases online. Despite the vast availability of online recipes, a survey found that a whopping 53% of people still have trouble figuring out what meal to eat (Botev, 2018). It seems finding a recipe that is relevant, beginner friendly with easy-to-follow instructions is often difficult. Recipes also tend to use advanced cooking terminology, assume a certain skill level and fail to be accommodating to various dietary preferences and measurement systems. The experience on these websites/apps really discourages beginners to even try cooking and really ends up perpetuating the notion that cooking is a chore.

This problem is most prevalent in modern South African households, particularly in urban areas where convenience is often prioritized over cooking a meal at home. This accounts for 60% of South Africa's population, of which more than half relies on fast food products (Allied Market Research, 2019).

There is a wide demographic of people that encounter these problems, these include:

- students and young adults (entering or have entered the job market) who may be inexperienced when it comes to cooking and only shop for specific ingredients
- parents and families who need to prepare meals as quickly and efficiently as possible while juggling other responsibilities
- people with dietary restrictions who really struggle to find recipes that cater to their specific needs
- people who live by themselves and would prefer not to spend so much time cooking for themselves and need quick and easy to make recipes.

There is a significant need for a solution that can assist users in meal planning and cooking that is convenient, timesaving, and personalized to accommodate various users' busy schedules, dietary restrictions and cooking abilities.

Page: 6

Author: Bertram Haskins Subject: Highlight Date: 18/09/2024, 15:03:46
Great job! Really nice way to end it off with stipulating the problem.

1.2 Project Objectives

Our project aims to address the common challenges faced by home cooks such as accommodating dietary needs, managing time effectively, dealing with a lack of ingredients, finding motivation and improving cooking skills. The software solution we propose will achieve the following objectives:

- Offer personalized meal plans which cater to various dietary preferences
- Provide a means to filter recipes and search for recipes based on available ingredients
- Offer step-by-step instructions with integrated timers for efficient cooking
- Enable offline saving of recipes and grocery lists.
- Allow users to adjust recipes (such as changing metric systems and serving sizes)
- Make planning meals easier by incorporate a meal planner
- Grocery lists generation based on selected recipe
- Allow users to add and share their own recipes
- Support multi-platform access so the app is accessible across various devices

Page: 7

Author: Bertram Haskins Subject: Highlight Date: 18/09/2024, 15:05:08
Make sure of all of them start with actions such as Provide, Generate, etc.

1.3 Problem background

The covid-19 pandemic brought about massive changes in eating habits, specifically there has been a notable spike in the number of people eating at home. This is largely in part due to the rising food prices post-pandemic (Innova Market Insights, 2024). Even so, many still depend on fast food as the more convenient option as it is widely perceived as the faster and easier choice. This perception has been cultivated over decades leading many to believe that cooking requires a considerable amount of time and skill, deterring a lot of people from even trying (Rodale, 2017). Recipe apps have the potential to change this misconception by offering quick and simple recipes that make cooking accessible to everyone.

Finding recipes on the internet however can sometimes feel like finding a needle in a haystack. Despite the countless options available, users still find it rather difficult and time consuming to find recipes that suit their specific needs and preferences. Once a recipe is found, users often must wade through what seems like endless text just to get to the actual cooking instructions (Fance, 2023). Moreover, having to manage and keep track of these recipes often leads to further frustration.

Since the pandemic, the search for recipes has been steadily decreasing over the years as indicated in Figure 1.1 likely reflecting the daunting nature of finding suitable recipes online.

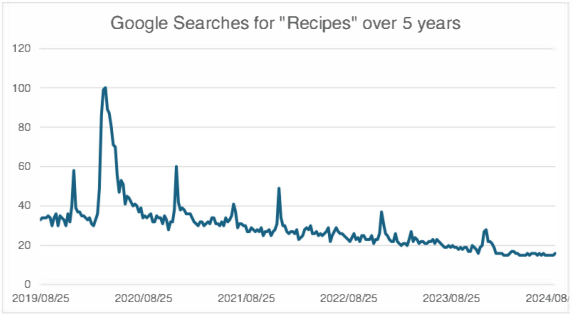

Figure 1. 1: Google Trend Graph for "Recipes" over a 5-year period (Google Trends, n.d.)

Author: Bertram Haskins Subject: Highlight Date: 18/09/2024, 15:07:25
Great job here! Even your citations are handled very well.

Figure 1. 2: Lack of Dietary Options offered by AllRecipes

This screenshot is from the AllRecipes website. All rights reserved. (AllRecipes, 2022)

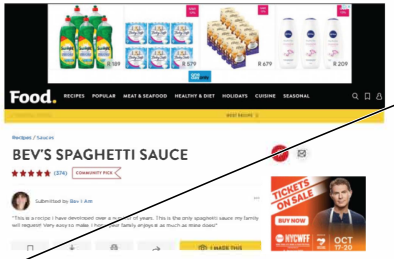

Figure 1. 3: Intrusive and distracting ads on the page

This screen shot is from the Food.com website. All rights reserved. (Food, 2002)

In Figure 1.1, it is evident that many recipe sites generally offer limited dietary options. This presents a challenge, as today, many people adhere to a variety of dietary preferences and restrictions.

Figure 1.2 illustrates the presence of intrusive ads on recipe sites, with Food.com serving as a prime example. A large banner ad, which is even larger than the website's own banner, distracts the user and detracts from the overall browsing experience.

Page: 10

Author: Bertram Haskins Subject: Highlight Date: 18/09/2024, 15:06:54
Avoid putting images/figures next to each other like this. You don't have an issue with spacing/a limited number of pages. Put each on its own.

1.4 Related Systems Analysis

1.4.1 Recipe app name: Samsung Food

- Platform: Android, iOS and website
- Description of system: Personalized food and recipe app that allows users to save recipes, receive AI smart cooking skills and helps users with weekly food and meal panning. Allows users to share recipes, shopping lists and meal planner with friends and family.
- Screenshots:

Figure 1. 4: Samsung Food meal planner

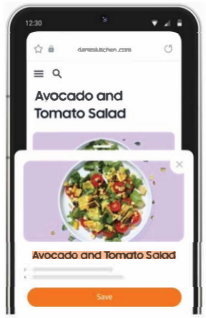

Figure 1. 5: Samsung Food saving of recipes

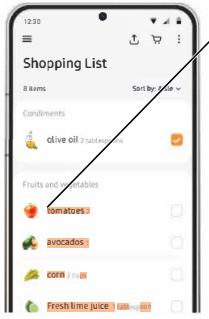

Figure 1. 6: Samsung Food grocery list section

- List of features to adapt: user friendly user interface, meal planner, shopping list generator from recipe, ability to save online recipes in app, ability to edit recipes based on servings and metric system, sharing recipes with others and a good login process (setting user preferences)
- List of features to avoid: Not having a save offline option for meal planner, shopping list and recipes

Page: 11

Author: Bertram Haskins Subject: Highlight Date: 18/09/2024, 15:08:36
Remember to refer to your figures in text, e.g., Figure 1.4 represents....

Author: Bertram Haskins Subject: Highlight Date: 18/09/2024, 15:08:05
In this case you should rather have one figure and make the 3 images subfigures (a), (b) and (c).

- List of features to avoid: Not having a save offline option for recipes and subscription plans

1.5 Project Plan

Project Name: Thyme To Cook (Recipe App)

Client Name: Big Appetite Solutions

Version: Version 1.0

Final Delivery Date: 4 - 8 November 2024

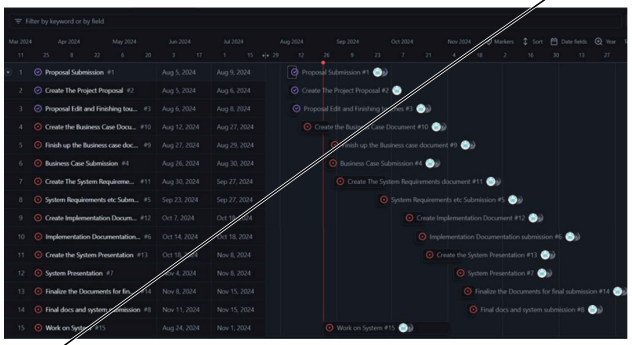

Figure 1.13: The Roadmap for the project (NathanTh3Gr3at, 2024)

Figure 1.13 shows 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.

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.

Page: 14

Author: Bertram Haskins Subject: Highlight Date: 18/09/2024, 15:10:41

This is a great attempt, but you need to be a bit more granular... what about all the smaller tasks related to system development. How are you going to be dividing the tasks among the group members... every member probably won't be working on every aspect of the system (that's not a very good use of the resources within the group).

- How to handle: Ensure compliance with data protection laws such as POPIA in South Africa and dietary information standards.

1.6.8 Team member illness/ Unforeseen Circumstances

- Type of risk: Minimizable Risk
- How to handle: Ensure all work related to the project is well document (comments in code, descriptions for what is being done different parts of the development process) so that someone else can pick up the work if needed.

1.6.9 Limited access to software (Trial software, require subscription)

- Type of risk: Acceptable Risk
- How to handle: Work around these limitations by finding freely available alternatives or if possible, establish a budget for this software.

1.6.10 Minor Bugs or Issues in the Code

- Type of risk: Acceptable Risk
- How to handle: Prioritize fixing critical issue/bugs first and allocate time for testing and debugging. Also once solved, document these issues for future reference.

1.6.11 Inconsistent project deliverable documents

- Type of risk: Avoidable Risk
- How to handle: Ensure documentation is updated during the development process and shared on GitHub

Cause and Effect diagram on Risk Analysis

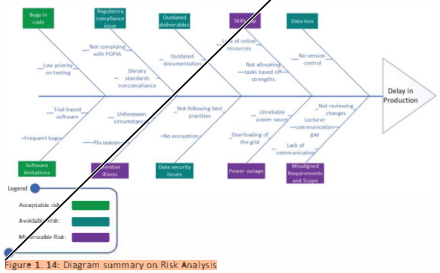

Figure 1. 14: Diagram summary on Risk Analysis

In Figure 1.14 the risk analysis has been summarized into a fishbone diagram.

Author: Bertram Haskins Subject: Highlight Date: 18/09/2024, 15:11:31
Very nicely done in this section. The figure is also a great touch. Just try to make it a bit larger to be legible!

1.7 References

Allied Market Research. (2019, September). *South Africa Fast Food Market Size, Share, Competitive Landscape and Trend Analysis Report, by Product Type, Age Group and Distribution Channel : Opportunity Analysis and Industry Forecast, 2019-2026.* Retrieved August 25, 2024, from Allied Market Research: https://www.alliedmarketresearch.com/south-africa-fast-food-market

AllRecipes. (2022, September 21). *Cuisine A-Z.* Retrieved August 25, 2024, from AllRecipes: https://www.allrecipes.com/cuisine-a-z-6740455

Bashir, U. (2024, August 5). *Attitudes towards food in South Africa as of June 2024*. Retrieved August 25, 2024, from Statista: https://www.statista.com/forecasts/1266353/attitudes-towards-food-in-south-africa

Botev, V. (2018, July 30). *Recipe App Case Study*. Retrieved August 25, 2024, from Medium: https://medium.com/@velichko.botev/recipe-app-case-study-986af9c28207#8cc6

Davis, E. (2024, March 23). *Why Are Recipe Sites So Bad? Unpalatable Truths*. Retrieved from Every Last Recipe: https://everylastrecipe.com/why-are-recipe-sites-so-bad-unpalatable-truths/

Fance, C. (2023, March 16). *12 best cooking and recipe apps in 2024.* Retrieved August 25, 2024, from Android Police: https://www.androidpolice.com/best-cooking-recipe-apps/

Food. (2002, June 12). *Bev's Spaghetti Sauce*. Retrieved August 27, 2024, from Food: https://www.food.com/recipe/bevs-spaghetti-sauce-26217

FoodPrint. (2024, February 28). *The Problem of Food Waste.* Retrieved August 25, 2024, from FoodPrint: https://foodprint.org/issues/the-problem-of-food-waste/?cid=5664

Google Trends. (n.d.). *Google Trends*. Retrieved August 26, 2024, from https://trends.google.com/trends/explore?cat=71&date=today%205-y&geo=ZA&q=recipes&hl=en

Innova Market Insights. (2024, April 15). *Global Food Trends – Home Kitchen Heroes: Top 10 Trends 2024.* Retrieved August 25, 2024, from Innova Market Insights: https://www.innovamarketinsights.com/trends/global-food-trends/#:~:text=As%20part%20of%20eating%20at,after%20the%20COVID%2D19%20pandemic.

Lumley, S. (2024, April 10). *Indecisive Brits spend 37 hours a year trying to choose what meals to eat, study finds.* Retrieved August 25, 2024, from Wales Online: https://www.walesonline.co.uk/news/uk-news/food-mealtimes-indecision-dinner-choices-28968056

NathanTh3Gr3at. (2024, August 24). *ITPV302_PROJECT_Plan*. Retrieved August 24, 2024, from GitHub: https://github.com/users/NathanTh3Gr3at/projects/3/views/4

Page: 18

Author: Bertram Haskins Subject: Highlight Date: 18/09/2024, 15:12:35

Overall your referencing and citations look great, but you don't need to reference yourself. This type of thing could just be included via a footnote on the page where it's used/relevant.