FoodPanion: Android Based Personal Cook Buddy

A Capstone Project Proposal

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In Partial Fulfilment

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Bachelor of Science in Information Technology

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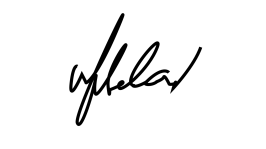
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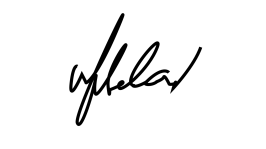
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# APPROVAL SHEET

This capstone project proposal titled: FoodPanion: Android based personal cook buddy prepared and submitted by Cherry L. Andrade, Raven P. Atienza, Allyson Anne C. Sambajon, and Kyle Joshua L. Toda, in partial fulfillment of the requirements for the degree of Bachelor of Science in Information Technology, has been examined and is recommended for acceptance and approval.

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# Abstract

Title of research**: FoodPanion: Android Based Personal Cook Buddy**

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Cooking is the means of preparing meals that will be eaten by an individual, or the food which are prepared for other people. Usually, a cook has some sort of connection to the food when it is being prepared. While others, they wanted to cook because of hunger, and some users uses food delivery applications if they are too lazy to cook. Thus, the mobile application FoodPanion is created for anyone who would like to try on new recipe ideas. In addition, FoodPanion was also created to advise the users in accordance to their BMI results, in order to give basic health tips, and recommendations—whether if the user is underweighted, normal, overweight, or obese. Furthermore, the purpose of the study is to provide a user the desired meal, while still basing on the user’s BMI result. Wherein, FoodPanion is a chatbot where users could look for food and recipe-related ideas only. Moreover, the method used in mobile application is agile development mode. Whereby, the platform used by the developers is Java and Android Studio as its base code. While, the testing is used to check the functionality of the system. The result was good and was highly effective which are based on the feedback from the users.

# Table of Contents

|  |  |  |
| --- | --- | --- |
|  | | Page |
| Title Page | | i |
| Executive Summary | | ii |
| Approval Sheet | | iii |
| Acknowledgment | | iv |
| Table of Contents | | v |
| List of Figures | | vi |
| List of Tables | | vii |
| List of Notations | | viii |
| Introduction | | 1 |
|  | Project Context | 1 |
|  | Purpose and Description of the Project | 3 |
|  | Objectives of the Study | 4 |
|  | Scope and Limitations of the Study | 4 |
| Review of Related Literature/Systems | | 5 |
|  | Review of Related Literature  Synthesis | 5  9 |
|  | Related Studies and/or Systems  Synthesis | 10  16 |
| Technical Background | | 18 |
|  | Overview of Current Technologies to be Used in the System | 18 |
|  | Calendar of Activities | 19 |
|  | Resources | 21 |
| Methodology, Results, and Discussion  Requirements Analysis  Requirements Documentation  Design of Software, System, Product, and/or Processes  Development and Testing  Description of Prototype  Conclusions and Recommendations  Appendix | | 22  23  24  26  36  43  44  45 |
|  | References | 45 |
|  | Resource Persons  Relevant Source Code  Evaluation Tool or Test Documents  Sample Input/Output/Reports  User’s Guide | 50  58  133  137  138 |
|  | Personal Technical Vitae (one page per member) | 149 |
|  | |  |

# List of Tables

|  |  |  |
| --- | --- | --- |
| Table |  | Page |
| 1 | Gantt Chart of Activities | 20 |
| 2 | Likert Scale | 39 |
| 3 | Objective 1 | 40 |
| 4 | Objective 2 | 41 |
| 5 | Objective 3 | 42 |
|  |  |  |

# List of Figures

|  |  |  |
| --- | --- | --- |
| Figure |  | Page |
| 1 | Agile development Mode | 23 |
| 2 | Story Board | 24 |
| 3 | Entity relation diagram | 25 |
| 4 | Loading Screen | 26 |
| 5 | Registration page | 27 |
| 6 | Email Verification | 28 |
| 7 | BMI Module | 29 |
| 8 | BMI Result | 31 |
| 9 | BMI Tips and Recommendation | 33 |
| 10 | Category Meal | 34 |
| 11 | FoodPanion Creator’s Disclaimer | 35 |
| 12 | FoodPanion Chatbot | 36 |

# List of Appendices

|  |  |  |
| --- | --- | --- |
| Appendix |  | Page |
|  | A. References | 46 |
|  | B. Resource Persons | 51 |
|  | C. Relevant Source Code | 59 |
|  | D. Evaluation Tool or Test Documents | 134 |
|  | E. Sample Input/Output/Reports | 138 |
|  | F. User’s Guide | 139 |
|  | G. Curriculum Vitae of the Researchers | 150 |

# Introduction

## Project Context

Now is the domination of information technology and telecommunication. Wherein, modern technology and inventions are generally being made in information, learning, technology, and development in our generation. The importance of information technology has been influencing the society. The researchers define Information Technology or IT, has been used to acquire, store, process, and organize data, which in turn would become useful sets of information, which are now used to operate or process data for a specific system or application.

The developers came up with an idea to develop a system that provides various food recipes application and ease the end-user’s life in cooking. The researchers have found out that, way back in Egypt's ancient days, the oldest sequenced recipes were on the walls of the ancient Egyptian tomb of Senet. Back in the 19th century, it taught people on how to make flatbreads. In addition. the second oldest recipe was in the 14th century B, and they described the making of Sumerian beer as "liquid bread." People captured that on clay tablets as part of a hymn to a goddess named Ninkasi, dedicated to beer. While, the first documented cookbook in print today is Of Culinary Matters—originally. De Re Coquinaria—was written by Apicius during the 4th century AD Rome. It contains more than 500 recipes, Indian spices. Apicius misspent his prosperity on eating, and when he came down to his last few million sestertii—a Roman coin, he hosted an epic banquet. During the previous course, he poisoned himself (Dasgupta, 2016). Assuming that way back in the ancient era, they had a hard time memorizing different recipes on their minds. Therefore, Apicius created a cookbook where people can study recipes they would like to try someday. Anyone can now write or document the recipes they constructed, and also be able to share them with anyone.  Having a cookbook is indeed a big help for everyone, especially aspiring cooks who would like to try new recipe ideas. As it is convenient for everyone, for it provides instructions and procedures on cooking the recipe they would like to practice, test, or cook, in order to avoid hunger. With having guideline that people can follow according to what is written on the cookbook. Some aspiring cooks also like to try recipes, upgrade them, or sometimes make their version. Some are just getting ideas from different recipes to improve their cooking skills. The cookbook gives people convenience in living, but it also unleashes people's creativity who loves cooking. People are skillful in cooking from the ideas people get, from the practices and experiences, and from the knowledge people learn from the cookbook. In our generation, anyone is free to express or share the thoughts and ideas they want everyone to know.

Balancing the meal intake and taking care of a person’s health are very important, as well. A balanced diet provides the nutrients a person’s body needs to function effectively. Without a balanced diet, a person’s body is more likely to get sick, acquire infections, fatigue, and impaired performance. Children who do not eat healthy food may have growth and development problems, worse: academic performance and joint conditions. Based on WHO (World Health Organization) recommendations, it is vital to eat less fat. For the reason that fats and oils are concentrated sources of energy, however, if one is overeating, specifically the wrong kinds of fat—such as saturated and industrially produced trans-fat—can increase the risk of heart disease and stroke. Wherein, it is suggested to eat plenty of vegetables and fruits, for it is an essential source of vitamins, minerals, dietary fiber, plant protein, and antioxidants. Therefore, eating too much is not good for the health, as well as eating too little.

To have someone to talk to or share our thoughts with is relieving and relaxing. However, some people are not fond of listening or talking to other people unless they speak to their close friends. Thus, Chatbots was made to become our "conversational agents"—it is software application which mimics written or spoken human speech, in order to simulate a conversation or interaction with a natural person (Shewan, 2018). With these chatbots, people can talk to a robot, or more like an average person, but a programmer programs it. An example of a chatbot is an application called Replika, the latest fantastic chatbot. It's a space where end-users can safely share their thoughts, feelings, beliefs, experiences, memories, dreams – their "private perceptual world." (Kuyda, 2019)

Users can also check their body mass index, and the system will provide the proper meal. The developers will give the end-users an options and choices of recipes that FoodPanion recommends. This mobile application will help the end-users get healthy and to have balanced and proper diet, and end-users will learn from FoodPanion’s available recipes. The developers of this system think of this mobile application as a way for people to learn new recipe ideas and to unleash their creativeness.

## Purpose and Description of the Project

This mobile application aims to ease people's lives by not worrying about what to cook. The mobile application will provide the end-users desired meal recipe. In addition, the developers wanted the users not to just cook because of their hungriness, but to learn from the recipes users get from FoodPanion.

Furthermore, the system FoodPanion is a mobile application where the end-users can talk to the cooking buddy or FoodPanion chatbot. FoodPanion is a chatbot that the end-users can talk with, but only about food and recipe ideas. FoodPanion recommends different meal categories such as breakfast-meal, lunch-meal, dinner-meal, as well as desserts/beverages. As the system itself can calculate the user’s BMI to get and give the right recipe for the users. Wherein, the developers created this application not by just giving the users the desired meal, as well as giving the users the advised meal for them. Also, the application recommends varieties of food from various countries.

## Objectives of the Study

To develop an android application that will recommend a food recipe depending on end-user’s BMI results.

* To develop a module that will calculate BMI, and recommend guidelines based on WHO;
* To develop a module that shows the calories of each meal.;
* To develop an application that will respond to the end-user’s food inquiry.

## Scope and Limitations of the Study

The scope of the developers’ capstone project is to develop a mobile application with a chatbot that relies on the database made by the developers. Offers categorized meals – breakfast, lunch, dinner, and dessert/beverages, and a mobile application with a BMI calculator for users who would like to check their current body mass index status.

The limitation of the developer’s capstone project is that it only focuses on Android users, it also only covers the English-American language, and it cannot be accessed offline as well. Thus, the user must access the application online.

# review of related literature/systems

## Review of Related Literature

According to Oriel (2020), a compilation of foods Casper grew up eating and learning to cook, as well as the memories of dishes served during family reunions and holidays. Even though Filipino cooking draws on influences from across the globe, the heart of Filipino cooking in the family. Each family has its own food culture, traditions, and ways to prepare certain dishes. Food is usually prepared and cooked by the family matriarch, like the *Lola* (grandmother), *Nanay* (mother), or *Tita* (aunt), and passed it down through the generations. Each dish is a labor of love and a point of pride. Just like family, the food can be sweet, sour, salty, and, at times, bitter, the author writes in the introduction. This book solved the problem in finding food to eat and guide for food lovers to try different foods in other countries across the globe. This book has thought of a way for cooks to master the method of cooking in various countries by providing ingredients and instruction on how to cook it correctly.

The recommendation of New Cookbook Features 100 Classic Filipino Recipes, for beginners, is to give other people a new idea when it comes to cooking and to be able to adapt other methods of eating like kamayan in the way of eating in the Philippines and also cooking strategy. Alejandro (Dis 8, 2015) stated that, the food of the Philippines Periplus edition from the national dishes such as adobo, lechon, and sinigang, to the fiery foods of the Bicol region where coconut milk is a favored ingredient, Filipino food is a concoction of tantalizing textures, flavors, and colors.

According to Marcial,Onte,Mana-ay, this paper presents the development of an online database of food recipes with indigenous ingredients. The system is called "dapogan" which is aimed to allow food developers to share and promote foods made from indigenous ingredients using the Internet. It is a content management system integrated with social networking facilities and multimedia capabilities. Rapid application development was used during the development. Development tools include Windows 7, WAMP Server 2.0, PHP, Notepad++, and Adobe Photoshop CS5. The proposed system was evaluated by 24 student users. It yields a 9.7 weighted mean which is described as compliant. This entails that the proposed system is highly acceptable in terms of its usability among the users”. with this system named "dapogan," you do not have to travel and conduct lengthy research to find out what a native or indigenous food word is all about and how to cook this kind of food. Someone else wants to try a portion of different food and know its flavors, so this system solves the problem in terms of food, giving the other knowledge on how to cook the food in our country and food preparation and ingredients. On the other hand, this system digitally preserves indigenous practices involving Filipino food ingredients through the Internet.

The system recommendation is designed to educate a person in terms of cooking and learning many ways of cooking not only in our country but also in other countries. Furthermore, the equipment, techniques, and recipes are introduced in a detailed manner. Cooking is tough as it already is, hence, the system was made to offer help in proving knowledge on what is good to cook.

The Filipino Cookbook features easy, step-by-step instructions, which Filipinos and non-Filipinos alike will enjoy. With the Filipino Cookbook, one could learn on how to make the famous vegetable dishes of the Tagalog Peninsula to the seafood and noodles of the Visayan Islands, as well as the spicy and colorful curries of Mindanao. Moreover, once could also learn to make a perfect *Pinakbet*—it is a sauteed vegetables with shrimp paste. Also, the delicious *Halo-Halo*—a mixed fruits dessert. Regale your friends with a wonderfully easy *Paella*—a rice and seafood medley. As well as the *Morcon*—a stuffed beef roll, or the amazing bowl of *Pininyahang Manok*--chicken with pineapple. As this provided a way to solve the problem in terms of lacking the knowledge on how to cook the food from various countries, which is through giving step by step instructions to the cooks. Morse, the book is also for people who want to try other foreign cuisine.

The book recommendation is designed for recipes ideas, even though people lived in other different countries, cookbook Filipino dishes idea we entertain because everybody loves the food end-users want to try not only in within the country but to try and learn about foods in other countries cookbook, collection of recipes, instructions, and information about the preparation and serving of foods. At its best, a cookbook is also fine art in terms of cooking.

According to Li, et. al. (2016), Recommendation System is known as an effective solution for information overload, and there are many recommendation research accomplishments that have been made from academia and industry. By diming a binary relation between user-item, a recommendation system can help the user find what they are interested in and build personalized recommendations to meet their needs. Recent years, the term kitchen economics has risen, and mobile applications for giving recipe information has gradually become the focus in people's life. More people are using mobile applications to get cooking recipe information, but recommending the right recipe for each consumer is difficult due to food and diet information complexity. A hybrid recommendation framework is introduced in this paper for a customized recipe mobile application. Li, et. al. (2016) defined a scalable recommendation framework based on spark clusters for major components data from mobile applications, as well as a hybrid recommendation algorithm that combines content-based filtering and collaborative filtering to improve the effectiveness of recipe recommendations. The recommendation system has scalable computational capabilities, according to the tests.

The study reveals that specific recommendation systems have different target users in other areas. This paper's hybrid recommender system is designed for recipe personalized recommendations and provides users with recipes browsing service. Most traditional apps use client-server architecture, with a client-providing user interaction interface and server business processing and data maintenance.

The system has an item description analyzed by content-based recommendation systems to classify particular interest products to the end-user. The features of each system differ; content-based recommendation systems all have a way of defining the things that should be suggested, developing a user profile that determines the types of items the user wants, and recommending items based on the user's preferences, as well as a method of determining what to suggest by comparing items to the user profile. The profile is frequently generated and changed automatically in response to user reviews on the usefulness of things provided to them.

According to Yalvac, et. al. (2014), food waste is becoming a central issue of the twenty-first century. According to estimates, one-third to one-half of all food produced is thrown away. The majority of food waste in developed countries comes from the final stage of the supply chain, the consumer. Every year, around 7 million tons of food are thrown away from homes in the United Kingdom. Food waste reduction in households through improving customer habits has received little attention. Research demonstrates a social formula recommender, which could be a flexible application designed to reduce household food waste by suggesting recipes to a community of connected people. The application will enable users to record the daily food and waste habits and persuade a group of users to share user’s own food by suggesting recipes based on the group's available ingredients.

The article describes the data collection, persuasion, and experimentation methods. The project aims to design a Persuasive technology to minimize household food waste by providing consumers with an engaging and social platform. Not only are long-term studies and analyses needed to improve people's attitudes, but users are often required to quantify the change. Furthermore, recommendation systems need a large number of data to function correctly. As a result, long-term data logging is important (Yalvac, et. al., 2014) develop a smartphone app that can recommend recipes to a group of friends based on each person's tastes in the group and the available ingredients from various households. Instead of accounting for social expectations, this research focuses on modifying consumers' habits using a recommendation system.

According to Casas, Mugellini, and Khaled (2018), Human beings tend to improve users' daily lives at different times of end-user's lives: do more sport, eat healthier. This phenomenon has intensified over the last ten years thanks to smartphones and their multiple sensors that we always carry with us. This article aims to introduce the design of a conversational agent that will mentor people who want to change its user's food lifestyle. The information collection strategy is quick and precise in arrange to create the user's life simpler. The user sets the goals, and daily follow-up is performed. The consumer has two options: reduce his meat consumption or consume more fruits and vegetables. User tests were conducted with 36 individuals. Only 11% of the challenges were successful. However, in 65% of cases, the test has improved its consumption compared to before.

The article reveals that other conversational agents deal with food and nutritional monitoring, such as Nombot, Forksy, or Lysa. These chatbots ask the user to enter what they ate by writing it in the chat window to collect data. The program will then detect dishes, foods, and quantities by analyzing the text. This method is very interesting and provides much information.

## Synthesis

The New Cookbook Features is a food recommendation that gives Filipino food lovers a new idea for cooking and adapting the new food to other national dishes and instruction on how to cook it correctly for better results. A scalable recipe system with a hybrid recommendation algorithm provides the end-users with accurate and scalable recipes according to the users' profiles. User profiles are frequently generated and changed automatically. Developing an Online Database of Food Recipes with Indigenous Ingredients is designed to educate the end-users in cooking, learning many ways of cooking not only within the country but also in other countries' traditional food. And then in terms of food ingredients, dishes, cooking styles, preparation techniques and then promoting the Filipino food to other countries. Social recipe recommendation to reduce food waste is a system that helps end-users reduce waste and improve users' habits. The system persuades end-users to share recipes based on each person's taste in the group and the available ingredients from different households. Filipino Cookbook: 85 Homestyle recipes to delight Your family and friend's food recommendation designed for recipes ideas that help other people try the other recipes in other countries. This literature will make the famous vegetable dishes of the Tagalog peninsula, the seafood and noodles of the Visayan Islands, and Mindanao's spicy and colorful curries. Food diary couching chatbot aims to introduce the design of a conversational agent that will mentor people who want to change its user's food lifestyle. The information collection strategy is quick and precise in arrange to create the user's life simpler.

## Related Studies and/ or Systems

According to Cruz, et. al. (2017), People tend to produce food waste despite the global hunger problem. More than 30% of human food is not consumed globally, which is more than enough to stop hunger. In the Philippines, it was reported that 15- 24.9% of the Filipino population was undernourished. A local study reported that the number of Filipinos who experienced hunger increased from 2.6 million to 3.1 million at the end of December 2016. Ironically, however, each Filipino wasted 3.29 kg of rice per year. Different studies showed that domestic households are the major contributor to food waste and food losses. Household food waste was generated because of behaviors relating to food planning, preparation, storage, and consumption. Households primarily wasted vegetables, cereals, dairy products, and meat. But as Halloran et al. said improved communications, more efficient food packaging, and better food labels are some of the ways to minimize food waste. Likewise, researchers are offering household techniques to reduce household food waste. For instance, researchers in human-computer interaction actively address the issue of food waste in an attempt that mobile applications can at least change people's behavior.

Aarseth and Olsen investigated the cooking behaviors of nine Norwegian and 10 Danish couples with full-time works. They revealed that three patterns of cooking behaviors emerged from the interviews they conducted with the participants. The first pattern is that food preparation is still the primary responsibility of the woman. Couples may take part in the food preparation but agree that the woman is still in-charge in food preparation. The second pattern is called "man does it in his own way.", this means that men find easier ways to cook meals whereas women focus more on the food quality. The study also revealed that men view cooking as a hobby, not primarily the father's function. The third pattern is that cooking is a joint project of the couples. The couples share everyday responsibilities of preparing meals for the family or friends.

In a similar study, Szabo pointed out that men and women cook differently. The study consisted of 30 Canadian men who are 26-58 years old, single and married participants, and who cook at home. It was shown that men cook for practical reasons; they cook when no one is available to cook for them or are more skilled than their partners. It was also revealed that men cook because they want to impress women—for single participants, help their wives—for married participants, and express love and care for the family members. The first finding confirmed the third pattern of cooking described in Aarseth and Olsen's study. Furthermore, the result of Szabo rejected the popular notion that women cook because they are the ones who take care of the health of the family. The author also found that men cook because they want to contribute to the welfare of the family.

De Backer and Hudders revealed that Belgian women tend to eat more home-cooked meals than men. Conversely, Belgian men have a higher tendency to consume ready-to-eat meals than Belgian women. It is also revealed that there are more men than women who eat fast food. In contrast, women are more health-conscious as they eat more fruits and vegetables and less salty foods than men. As expected, women cook more often than men. The researchers also found that younger men--below 38 years old who watch edutainment TV cooking shows were less likely to cook. On the other hand, older men—men at least 38 years old--who watch edutainment TV cooking shows were more likely to cook.

According to de Gula, Moldez, and Montevirgen (2013), Food plays a very vital role in Philippine culture simply because Filipinos, for a fact, are fond of eating. This is evident in the number of meals they eat throughout the day: three main meals—*almusal* (breakfast), *tanghalian* (lunch), *hapunan* (dinner), plus an afternoon snack called *merienda*. Sometimes, they also have morning (between breakfast and lunch) and midnight snacks. A cooking recipe is a series of instructions on how to prepare a meal. It will list down the ingredients required and preparation instruction and other helpful information to make one's cooking a success.

Knowing the balance of good nutrition and physical activity can help individuals reach and maintain a healthy weight. The body requires carbohydrates, fats, proteins, vitamins, and minerals to support healthy organs, bones, muscles, and nerves and produce hormones and chemicals necessary for the proper organ function. But the benefits of good nutrition go beyond weight. Moreover, there is a saying, "every human being is the author of his own health or disease". Therefore, people should be cautious in what they eat. They must improve their diet towards a healthy lifestyle. Good nutrition can prevent illness or injury. Computers are already widely used to be a dietary aide and a recipe guide, but it is not something that one can bring anywhere, so people need something more portable and easier to carry. A mobile phone will be the answer to this problem. The Android phone is a software stack for mobile devices that includes an operating system, middleware, critical applications, and structured data storage. Applications in smartphones are used in information technology, business, medical purposes, and more.

According to Comendador, et. al. (2015), nowadays, enhancing the interface usability of applications and entertainment platforms has increased in the last years. Human-machine as technology integrates different areas, and the computational methodologies facilitate communication between users and computers using natural language. A related term to machine conversation is the chatbot, a conversational agent that interacts with users, turn by turn using natural language. Different chatbots or human-computer dialogue systems have been developed using text communication starting from ELIZA that simulates a psychotherapist, and then PARRY which simulates a paranoid patient. Eliza is the well-known artificial therapist. The bot tries to rephrase the questions of the client and reacts to certain keywords. If no keyword is found, Eliza replies with fixed phrases to keep the conversation going. With the improvement of data-mining and machine-learning techniques, better decision-making capabilities, availability of corpora, robust linguistic annotations/processing tools standards like XML and its applications, chatbots have become more practical, with many commercial applications. Medicine is a field in which such help is critically needed." And in recent times, robots and other forms of artificial intelligence are used in some sorts of medical applications.

Some existing applications serve as medical consultants, but none of them focus on generic medicines specifically for children and include chatbot as a tool for conversation with the user. Therefore, the researchers developed a medicine consultant chatbot, known as Pharmabot, that will act as a consultant pharmacist that will give the rational, appropriate, and safe medication of generic drugs for children based on the user's information by chatting.

According to Gunawardane, et. al. 2019), food is the third most essential part of everyone's lives. But generally, global food loss and wastage amount have been increased to an amount between one third and one half of all food produced. The reasons can be specified as a lack of appropriate planning, purchase, and preparation of too much food over the practice of food in restaurants. As a solution, the project team has implemented a mobile application capable of capturing an image of food and identifying it and measuring the weight. With the gathered data, the implemented system contains an intelligent agent providing suggestions of food recipes with leftover foods and several additional features such as guidance to the user to prepare any kind of food with the help of an interactive Chatbot as well as the user has been directed to get healthy meals by considering the previous meal plans and statistical report analysis. As a result, the implemented recipe generation algorithm of sentimental analysis has obtained 76% accuracy. Moreover, the team has received a more accurate unique technique for weight estimation than the currently available calibration techniques.

The study revealed that few applications have the intention to reduce food wastage by preparing meals with the remaining and available food items. "Zero food waste" application can be catering to the requirements of suggesting the food recipes with the identification of the food item and guide the user with nutrition facts and an interactive Chatbot.

According to the study of Dahiya (2017), today's world computers play an important role in our society. It gives us the information they entertain us and helps us lots of manners. The Chatbot is widely popular nowadays and catching speed as an application of computer communication. Some programs respond intelligently like a human. This type of program is called a Chatbot. A chatbot is a simple way to transport data from a computer without thinking of proper keywords to look up in a search or browse several web pages to collect information. Users can quickly type their query in natural language and retrieve information. In this paper, information about the design, implementation of the Chatbot has been presented.

The study revealed that it could be said that the development and improvement of chatbot design grow at an unpredictable rate due to a variety of methods and approaches used to design a chatbot. A chatbot is an excellent tool for quick interaction with the user. The Chatbot must be simple and conversational. Since there are many designs and approaches for creating a chatbot, it can be at odds with commercial considerations. Researchers need to interact and must agree on a common practice for designing a Chatbot. General-purpose Chatbot must be simple, user-friendly, easily understood, and the knowledge base must be compact. Although some commercial products have recently emerged, improvements must be made to find a common approach for designing a Chatbot.

According to Gusti, Ahmad, and Fitri (2018), the era of technology today has become a bridge that connects humans with all the ease. Many of the activities carried out by humans using technology as a media help, ranging from address search to shopping. Technology is becoming a small thing that is always included in our daily lives, such as cooking example. Recepiece application moves in the search field; more specifically, this application functions to find recipes online based on the similarity of materials owned by the user. With this application, users can find recipes with ingredients that match what is owned by the user. From various surveys and series of tests performed related to the functional Recepie application, it can be concluded that the user can accept it. This study revealed that not everyone could remember well the recipes they want. The material is also an obstacle in cooking. Limited ingredients also become one of the causes of limited cooking creations, especially for someone who does not have a passion for cooking. More than 80% of participants said the application is feasible to use and has a feature that can work well. The feature in question is a recipe search feature based on the similarity of material owned. From the survey results can be obtained the conclusion that this application can run well. This is evidenced by the survey results showing that 90% of users agree if the application is released globally.

## Synthesis

The findings of the study/system synthesized here are highly relevant to the developers' proposed system. The studies' methods gave the developers many ideas on how the developers will design own methods. On the other hand, the developers had a vision of improving and showing these studies' deficiencies to the proposed system. Starting from the strategies and ways the studies came up to how the studies were executed.

The Usability of "Fatchum": A Mobile Application Recipe Recommender System, the relevance of the study to the developer's proposed system is that the researchers researched who among men and women loves or enjoys cooking. The developers proposed system targeted users are anyone who enjoys cooking. There is no age restriction nor gender restriction. The mobile application the developers proposed is everyone, most especially if the user is a cooking enthusiast, then the mobile application will give happiness and satisfaction to the user. The Pinoy MD: A Mobile Dietary Aide and Recipe Generator, the study's relevance to the developer's proposed system is the recommendation system. A recommendation system is a system where a user asks a particular idea or desired thing to the system. Then the system will give an output connected to the user's expected response. The developers came up with an idea where the users can ask the system what recipe the user can cook based on the ingredients the user has, then the system will then provide a list of recipes that matched the user's choice of ingredients. The Pharmabot: A Pediatric Generic Medicine Consultant Chatbot and A Tool Conversation: Chatbot, the relevance of the study to the developers proposed system is the chatbot. A chatbot is a software system application that uses Artificial Intelligence that simulates human conversation through voice commands or text chats. The developers will create conversational agents to speak with the users of the system. The user's task is to simply talk to the chatbot and ask for the things the user wanted to know, then the chatbot will reply according to the user's questions or demands. The Zero Food Waste: Food Wastage Sustaining Mobile Application, the relevance of the study to the developers, proposed mobile application. A mobile application capable of capturing an image of food and identifying it, and measuring the weight. With the gathered data, the implemented system contains an intelligent agent providing suggestions of food recipes with leftover foods. The Food Recipe Finder Mobile Applications Based on Similarity of Materials, the relevance of the study to the developers proposed system a mobile application. Mobile application that moves in the search field, more specifically and it has a function to find recipes online on the basis of similarity of materials owned by the user. With this application, users can find recipes with ingredients that match what is owned by the user.

## TECHNICAL BACKGROUND

## Overview of Current Technologies to be Used in the System

This chapter covers the overview of existing technologies in the proposed system, FoodPanion. Technology has a major role in our day-to-day routines lately. These days, individuals are using mobile phones for regular daily existences. FoodPanion is developed for people who would like to make sure that eating healthy food is important for each individual's health. Therefore, the developers made sure to provide a user-friendly application for the end-users.

The API that is inside the mobile application is a Chatbot where the end-user will ask the chatbot regarding the user's recipes; then the chatbot will reply base on the ingredients the user entered and a BMI calculator, where the users can check the body mass index to see its current status and as well to know the calories, users can intake.

Java is the programming language that the developers will be using since the developers will be using an IDE compatible with the Java programming language. The IDE is Android Studio since the developers have decided to push through to use the IDE, and it is more reliable for the system. MySQL is for the database since the mobile application will grant users an account on the mobile application and access the server.

An agile programming development measure consistently begins by characterizing the users and archiving a vision statement on the extent of problems, openings, and values to be tended to. The developers catch this vision and work with a multidisciplinary group(s) to follow this vision. Agile practices include finding prerequisites and creating arrangements through the cross-functional exertion of self-coordinating and cross-functional groups and their clients/end-user.

The developers decided to use this methodology since it has more timesaving and resources. The process is separately distributed well, and it is more structural to use as the tasks are working at once. It is more convenient and well-ordered to use.

## Calendar of Activities

This part presents the weekly documentation requirements which were done by the developers, and depicts how long it takes to finish tasks given by the capstone coordinator. In the first month of the capstone project, and this was the time for proposing the title which was called "Title Proposal," the developers were tasked to decide and choose a title according to what the developers have selected and proposed to the coordinator.

For the second week of March to the first week of April, developers to construct the chapter one (1) which consisted of the following: the Project context, project description, objectives of the study, and the scope and limitations of the FoodPanion Application. In chapter two (2), the Review of Related Literature and Review of Related Studies which took three weeks to be constructed. While the last week of March up until the second week of April, was the time frame for the polishing and finalizing of chapter two. Wherein, the chapter two consisted of literature and studies that are related to the developers proposed project, developers also able to proposed the prototype design of the FoodPanion application.

Lastly, for chapter three (3), which consisted of the overview of the current Technology used in the System, Hardware and Software Requirements, and for the Methodology of the Study, developers created the last chapter in a span of two (2) weeks—the second and third week of April.

**Gantt Chart of Activities**

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| MONTH | FEBRUARY | | | | MARCH | | | | APRIL | | | | MAY | | | | JUNE | | | | JULY | | | | AUGUST | | | | SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | |
| ACTIVITY |
| Title Proposal |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Project Context |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Project Description |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Objective of the Study |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Scope and Limitations |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RRL and RRS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Overview of the current  Technology use in the  System |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardware Software  Requirements |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Methodology of the Study |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prototype (Design) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Coding |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Implementation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maintenance |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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*Table 1. Gantt Chart of Activities*

## Resources

* Hardware

The developers indicated that the hardware end-users would use a 1 to 2 GB Random Access Memory (RAM), and 50-100 MB Read-Only Memory (ROM) in order for the end-users to use the application.

* Software

The developers indicated that the software needed for the end user's need is Android version 5.0 and 6.0.

# methodology, Results and discussion

Requirements. ‘FoodPanion’ requirements are to provide a chatbot that will grant end-users the recipe of their desired meal, and to provide the end-users a healthy and proper meal.

Design. The design of the mobile application encompasses a user-friendly interface (UI). It is a minimalist application that shows a neat, and straightforward UI. In addition, it is an informative with its content. Simple is best; less is more.

Development and Testing. The development of the mobile application also includes the testing of the system. Both are employed simultaneously to ensure that the application works efficiently, with no wasted effort or expense.

Deployment. The developers made sure that the mobile application is ready for its final execution. However, revisions are entertained for a much better mobile application.

Review. This is where the developers will hear the panelist's suggestions and comments on the mobile application. Once the comments are given, the developers will decide and prepare for another batch of re-creating the mobile application if there are suggestions from the panelists.

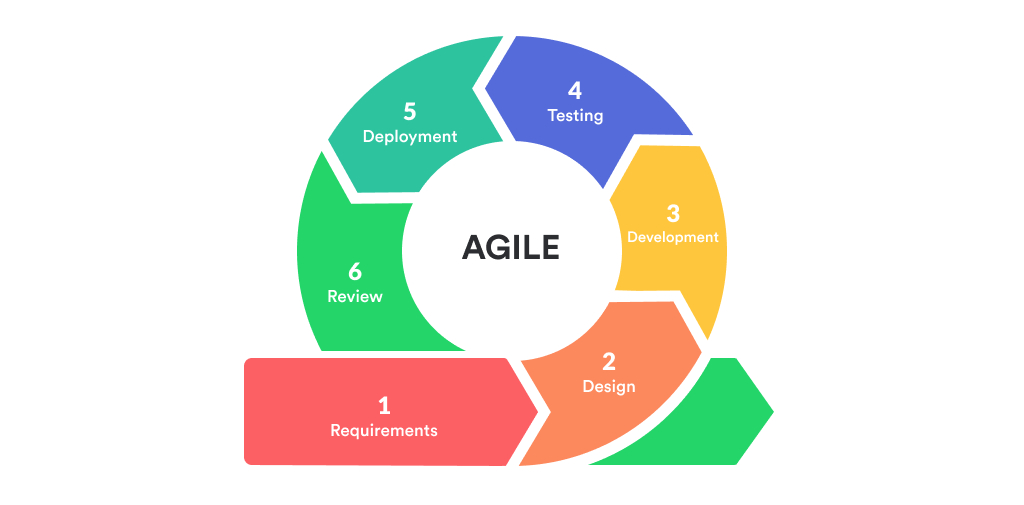


Figure 1: Agile development mode

## Requirements Analysis

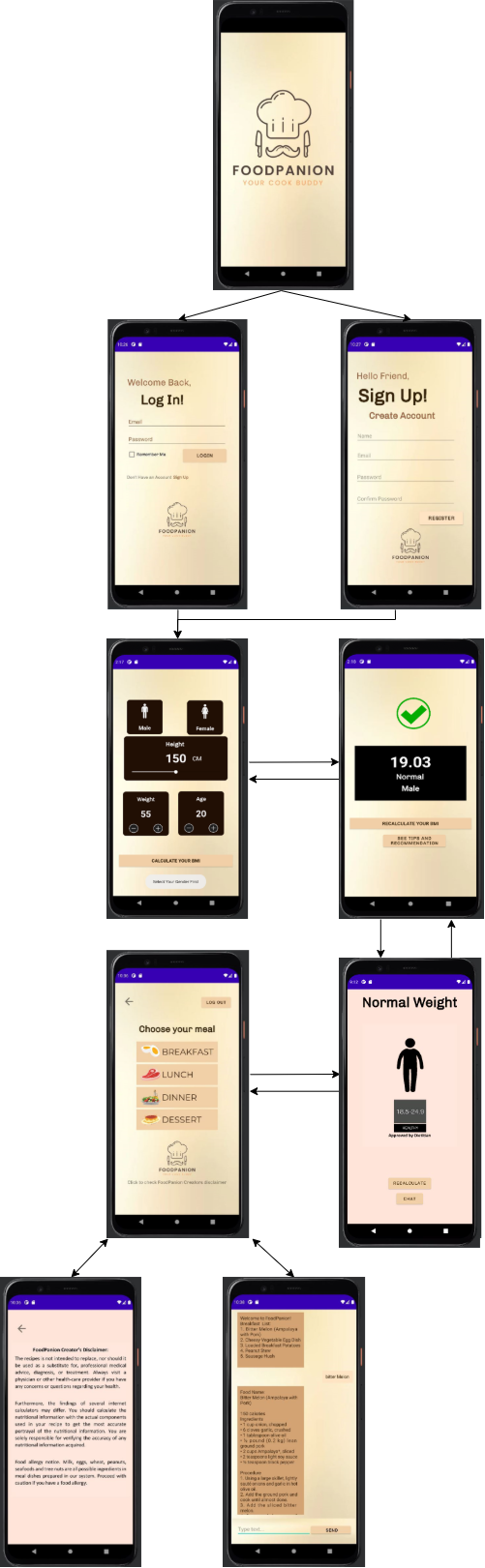
The people who are most like to be involved are those who are fond of cooking, eating, and also those people who would like to know and be aware of their current BMI. Wherein, they could also learn how to maintain good health and fitness.

The mobile application FoodPanion is a chatbot wherein the user can ask for a recipe the he/she would like to cook, try, and eat. On the other hand, the user can also know their BMI to be aware of their fitness status. FoodPanion was also created to ease the users' worries about their cooking. It could also provide the users’ desired meal based on their BMI result. As to also give the users different recipes which the users could choose from.

Since FoodPanion is a chatbot, chatbots are beneficial these days, since it can provide and attend the users with their inquiries regarding their wants and needs. Also, chatbots are trending because of its machine learning, where it can learn from human knowledge, even human's mistakes.

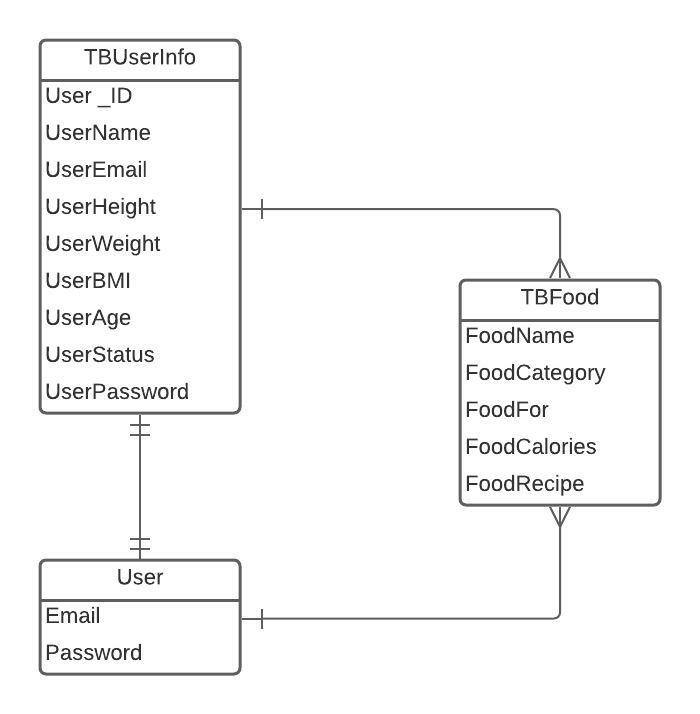
The mobile application FoodPanion is available only on the Android operating system android 5.0 and 6.0 and above version.

## Requirements Documentation



*Figure 2: Story Board*

## Entity Relationship Diagram

The relationships between entity sets recorded in a database are represented in an entity-relationship diagram (ERD). An object, or a data component, is an entity in this context. A collection of similar entities is referred to as an entity set. These entities can have attributes defined via attributes.

*Figure 3: Entity Relation Diagram*

## Design of Software, System, Product, and/or Processes

FoodPanion: Android Based Personal Cook Buddy

Title: Loading Screen

Description: In this module, the user will see the loading screen or logo of the application.

![A picture containing text, monitor, electronics

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHJhdmVuAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMxNAAAkpIAAgAAAAMxNAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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*Figure 4: Loading Screen*

Title: Registration page

Description: In this module, the user can log in or register a new account.Text, letter

Description automatically generated

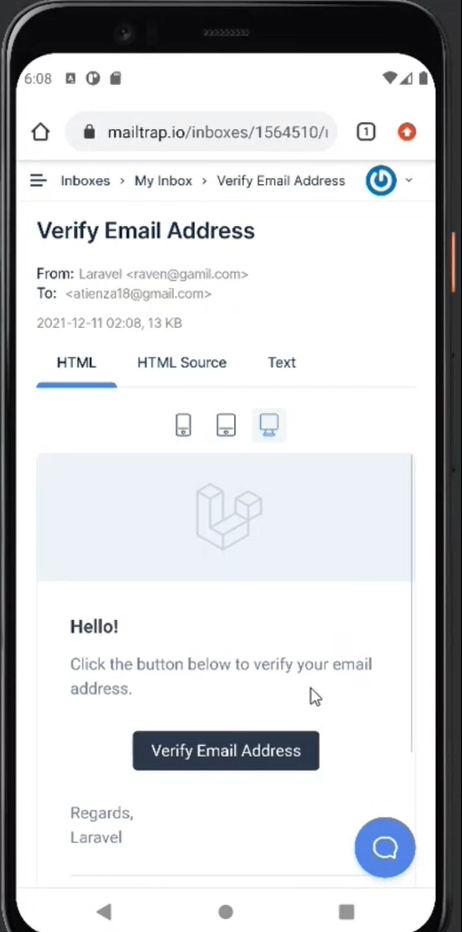
A screenshot of a phone

Description automatically generated with low confidence

*Figure 5: Registration Page*

Title: Email Verification

Description: In this module, to log in the user must verify their email input to proceed to next module.



*Figure 6: Email Verification*

Title: BMI Module

Description: In this module, the user will have to input his/her BMI, as well as his/her height, weight, and age. After placing the user's BMI, the user will have to click the “Calculate Your BMI” button.

Graphical user interface, application

Description automatically generated

*Figure 7: BMI Module*

Title: BMI Result

Description: In this module, the user will then see the results of the calculated BMI for male and female, which ranges from: normal, underweight, obese, and overweight. After seeing the user’s BMI, the user will have to click the Recalculate button—only if the user wants to recalculate his/her BMI. Under the “Recalculate Your BMI”, the user will then see the “See Tips and Recommendation” button.

A screenshot of a phone

Description automatically generated with low confidenceA screenshot of a phone

Description automatically generated with low confidence

A screenshot of a phone

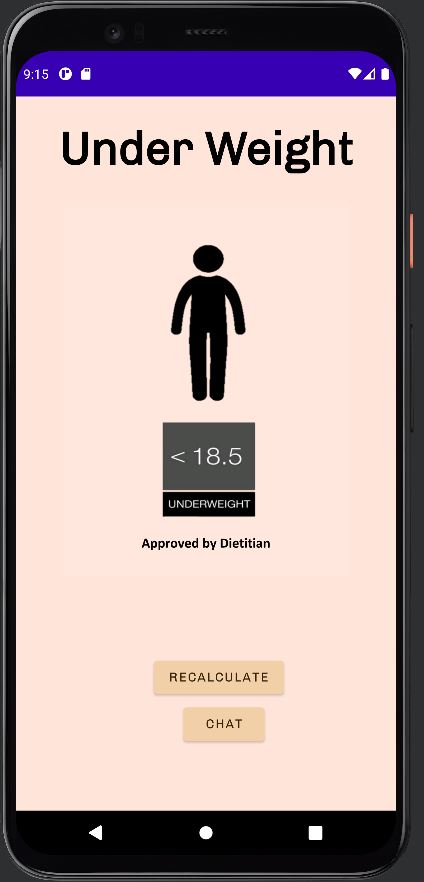
Description automatically generated with medium confidenceA picture containing text, monitor, electronics, screenshot

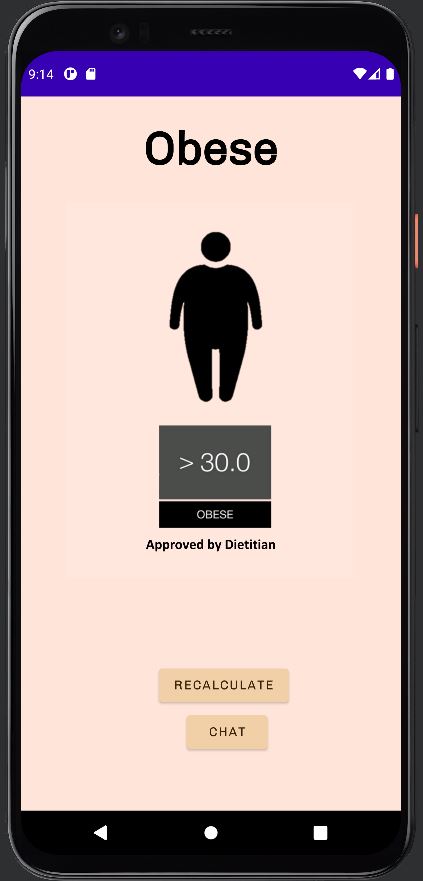
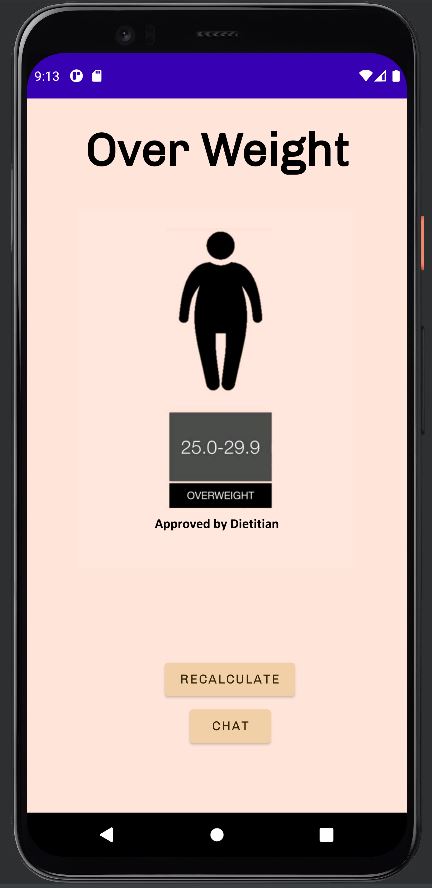
Description automatically generated

*Figure 8: BMI Result*

Title: BMI Tips and Recommendation

Description: In this module, the user can see the tips and recommendations of the application. The user can also see the “Recalculate” button, as well as the “Chat” button.



*Figure 9:* *BMI Tips and Recommendation*

Title: Category Meal

Description: In this module, after the user clicks the chat button, a category meal will appear, in which the users can choose from either breakfast, lunch, dinner, and dessert. In addition, it also has a button under the FoodPanion logo, which is the disclaimer.

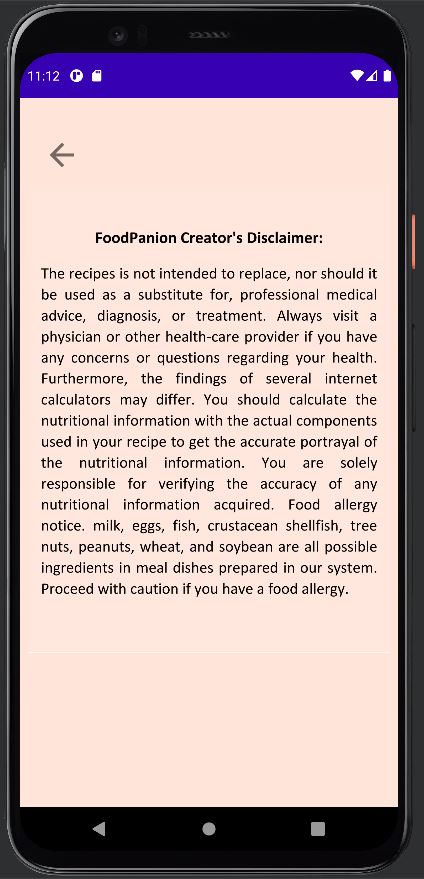
![A screenshot of a phone

Description automatically generated with low confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHJhdmVuAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3MAAAkpIAAgAAAAM3MAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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*Figure 10: Category Meal*

Title: FoodPanion Creators Disclaimer

Description: In this module, after the user clicks the button under the FoodPanion logo, the FoodPanion creator’s disclaimer will appear for users, especially for users who have health issue.



*Figure 11: FoodPanion Creator’s Disclaimer*

Title: FoodPanion Chatbot

Description: In this module, after the user chooses one of the category meals, the user can chat its desired meal, and the chatbot will reply with a recipe that the user needs.

![A screenshot of a computer

Description automatically generated with low confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHJhdmVuAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3MQAAkpIAAgAAAAM3MQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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*Figure 12: FoodPanion Chatbot*

## Development and Testing

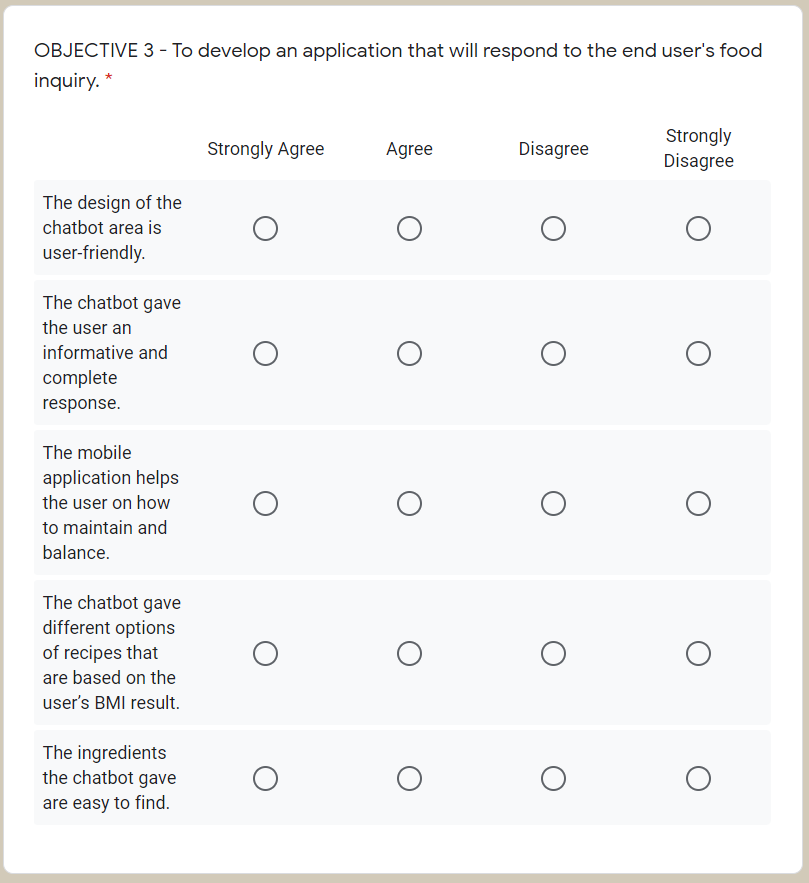
Survey Forms



*Figure 13: Survey Form Objective 1*



*Figure 14: Survey Form Objective 2*



*Figure 15: Survey Form Objective 3*

The examination of the developed mobile application FoodPanion: Android-based personal cook buddy is discussed and the method used by the developers to demonstrate the prototype's consistency and stability. It will carry out the basic operations for the target customers, who are cooking enthusiasts who want to know the BMI, and will receive the recipe recommendations based on the user's BMI results.

The weighted mean is the mean that is derived by calculating the weight (or probability) associated with a particular event or outcome by the related quantitative effect and then adding the results.

WM = (F5\*L5) + (F4\*L4) + (F3\*L3) + (F2\*L2) + (F1\*L1) / N

Where:

WM = Weighted Mean

F = Frequency of the Response

L = Response

N = Total number of Correspondents

Examples:

WM = (6\*5) + (4\*4) + (0\*3) + (0\*2) + (0\*1) / 10

WM = 30 + 16 + 0 + 0 + 0 / 10

WM = 46 / 10; WM = 4.6

|  |  |  |
| --- | --- | --- |
| Point | Scale Range | Explanation |
| 4 | 4.00-3.00 | Strongly Agree |
| 3 | 2.99-2.00 | Agree |
| 2 | 1.99-1.00 | Disagree |
| 1 | 1.00-0.99 | Strongly Disagree |

*Table 2: Likert Scale*

Objective 1: To develop a module that will calculate BMI and recommend guidelines based on WHO (World Health Organization).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Strongly Disagree | Disagree | Agree | Strongly Agree | Weighted Mean | Interpretation |
| 1. The mobile application helps the user check its BMI (Body Mass Index) |  |  | 7 | 24 | 3.77 | Strongly Agree |
| 2. The user understands the recommended guideline on the BMI Tips and Recommendations area. |  |  | 6 | 25 | 3.81 | Strongly Agree |
| 3. The BMI Tips and Recommendations area is helpful and relevant to the user’s input of their BMI. |  |  | 7 | 23 | 3.71 | Strongly Agree |
| 4. The design for the BMI Tips and Recommendations area is user-friendly. |  |  | 9 | 22 | 3.71 | Strongly Agree |
| 5. The user can easily update their BMI. |  |  | 5 | 26 | 3.84 | Strongly Agree |
|  |  |  |  | Average | 3.77 | Strongly Agree |

*Table 3: Objective 1*

Discussion: The indicated average weighted mean is “3.77” is interpreted as “Strongly Agree”. The analysis states that the system meets the module that will calculate BMI and recommend guidelines based on WHO (World Health Organization).

Objective 2: To develop a module that shows the calories of each meal.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Strongly Disagree | Disagree | Agree | Strongly Agree | Weighted Mean | Interpretation |
| 1. The calories and nutrition stated in each recipe are helpful. |  |  | 10 | 21 | 3.68 | Strongly Agree |
| 2. Each meal shows complete ingredients and procedures. |  | 1 | 8 | 22 | 3.68 | Strongly Agree |
| 3. The user will definitely follow the ingredients and procedure that the chatbot gave. |  | 1 | 15 | 15 | 3.45 | Strongly Agree |
| 4. The chatbot shows the importance of the calorie intake the user needs to take. |  | 1 | 9 | 21 | 3.65 | Strongly Agree |
| 5. The calories and nutrition on every meal/recipe are accurate. |  |  | 12 | 19 | 3.61 | Strongly Agree |
|  |  |  |  | Average | 3.61 | Strongly Agree |

*Table 4: Objective 2*

Discussion: The indicated average weighted mean is “3.61” interpreted as “Strongly Agree”. The Analysis states that the system meets a module that shows the calories of each meal.

Objective 3: To develop an application that will respond to the end user's food inquiry.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Strongly Disagree | Disagree | Agree | Strongly Agree | Weighted Mean | Interpretation |
| 1.The design of the chatbot area is user-friendly. |  |  | 12 | 19 | 3.61 | Strongly Agree |
| 2. The chatbot gave the user an informative and complete response. |  |  | 14 | 17 | 3.55 | Strongly Agree |
| 3. The mobile application helps the user on how to maintain and balance. |  | 1 | 11 | 19 | 3.58 | Strongly Agree |
| 4. The chatbot gave different options of recipes that are based on the user’s BMI result. |  |  | 8 | 23 | 3.74 | Strongly Agree |
| 5. The ingredients the chatbot gave are easy to find. |  |  | 10 | 21 | 3.58 | Strongly Agree |
|  |  |  |  | Average | 3.61 | Strongly Agree |

*Table 5: Objective 3*

Discussion: The indicated average weighted mean is “3.61” interpreted as “Strongly Agree”. The Analysis states that the application that is responsive to the end user's food inquiry

## Description of Prototype

FOODPANION: ANDROID BASED PERSONAL COOK BUDDY is an application that provides various types of food recipes according to the user's BMI result that offers 4 (four) categorized meals which is breakfast, lunch, dinner, and dessert. The application allows the users to calculate its own BMI that only needs the height (in centimeter), weight (in kilograms), and the user's age; then, the application will calculate the input status. It is for cook enthusiasts and for users who want to maintain its healthy weight, gain weight, and lose weight. Each recipe in the categories has set a specific count of calories that the users need. The application prototype has reached 85% complete by the developers, allowing the application to get tested and used by the target users.

The main goal of the developed application that recommends a different recipe that depends on the calculated user's BMI is to give tips and recommendations that will maintain users healthy weight, gain weight, and lose weight. The users can recalculate and update its BMI in case the user’s weight, height, and age have changed.

The features of the developed application have tips and recommendations from WHO and other legitimate sources and references. It also has a chatbot that will recommend a recipe according to the calculated BMI result of the user. The application’s function is user-friendly, and the users can understand and use it easily.

# Conclusions and Recommendations

This chapter covers the summary of the results based on the results and discussion chapter, the conclusion drawn from the findings, and the recommendations made by the developers were based on the conclusion.

The first objective is to develop a module that will calculate BMI and recommend guidelines based on WHO, and was met by the developed system. The indicated average weighted mean is “3.77” interpreted as “Strongly Agree”. The BMI calculations is accurate, and the healthy tips and recommendations are also helpful.

The second objective is to develop a module that shows the calories of each meal and was achieved by the developed system. The indicated average weighted mean is “3.61” interpreted as “Strongly Agree”. Each meal shows complete ingredients, procedures, and even the nutrition information.

Lastly, the third objective is to develop an application that will respond to the end user's food inquiry was achieved by the developed system. In addition, the indicated average weighted mean is “3.61” interpreted as “Strongly Agree”. Wherein, the chatbot shows responsiveness with a complete informative response.

Overall, the developed system had achieved all the requirements. Although, the developers are not yet complacent since there are lots of things, new suggestions, and different comments from the participants, which the developers might consider on adding it on the mobile application. The suggestions included the following: first, is to add the category for Vegan people, for people who are on Keto diet, low calorie diet, and more. Second, is to also add pictures of the recipes; lastly, is to also add videos for better demonstration.

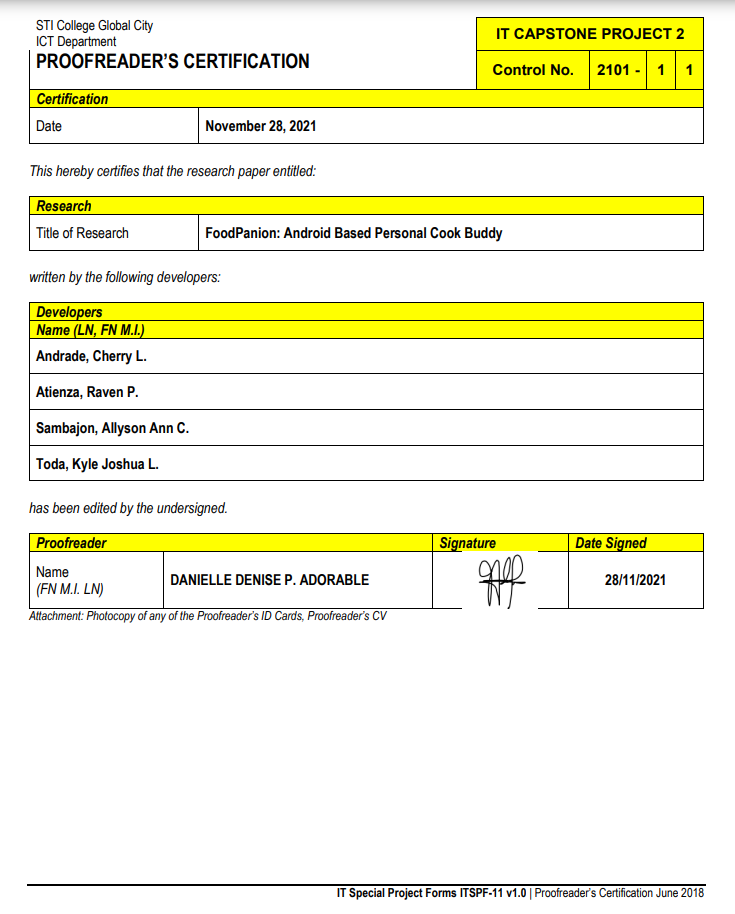
## Appendix

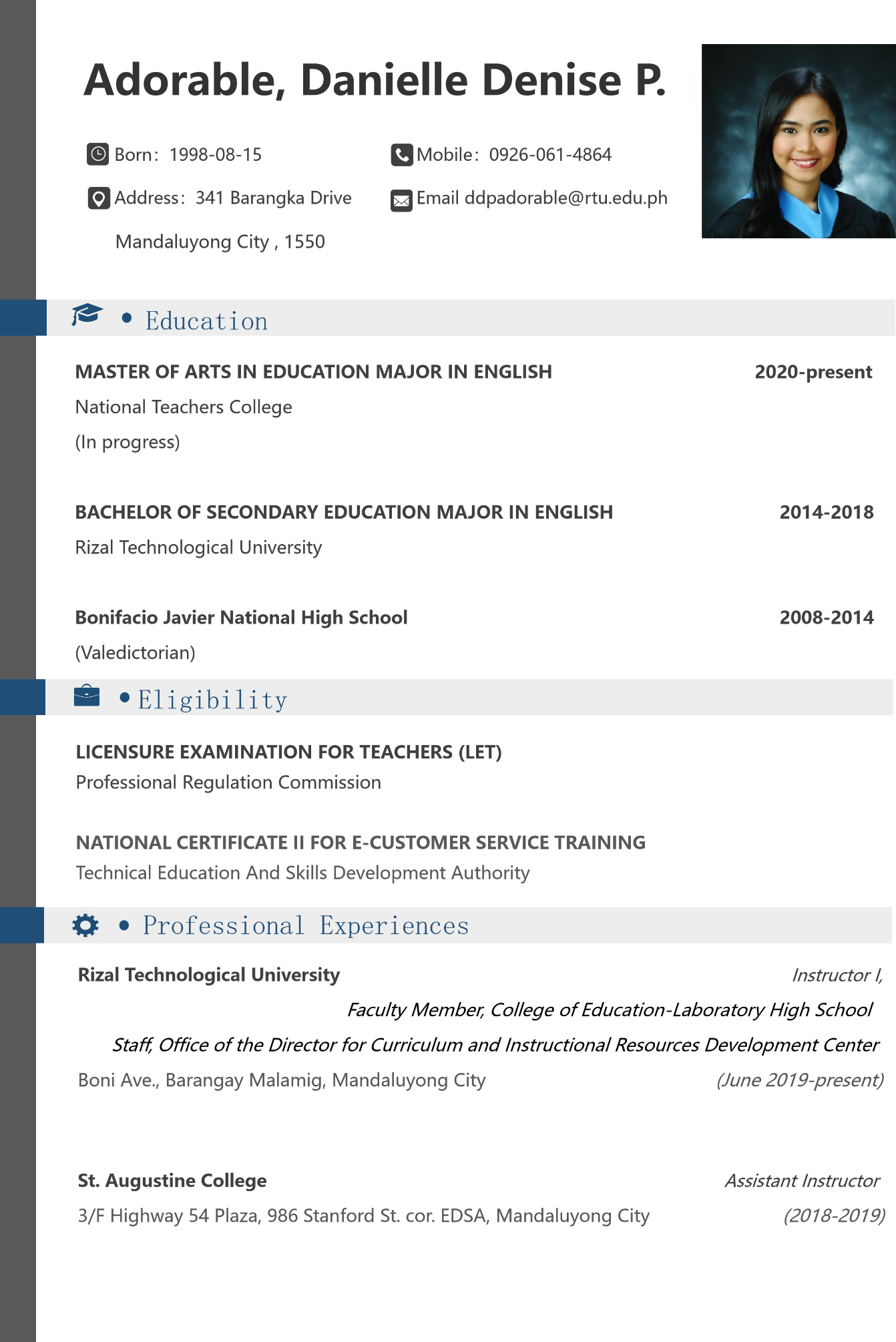
# References

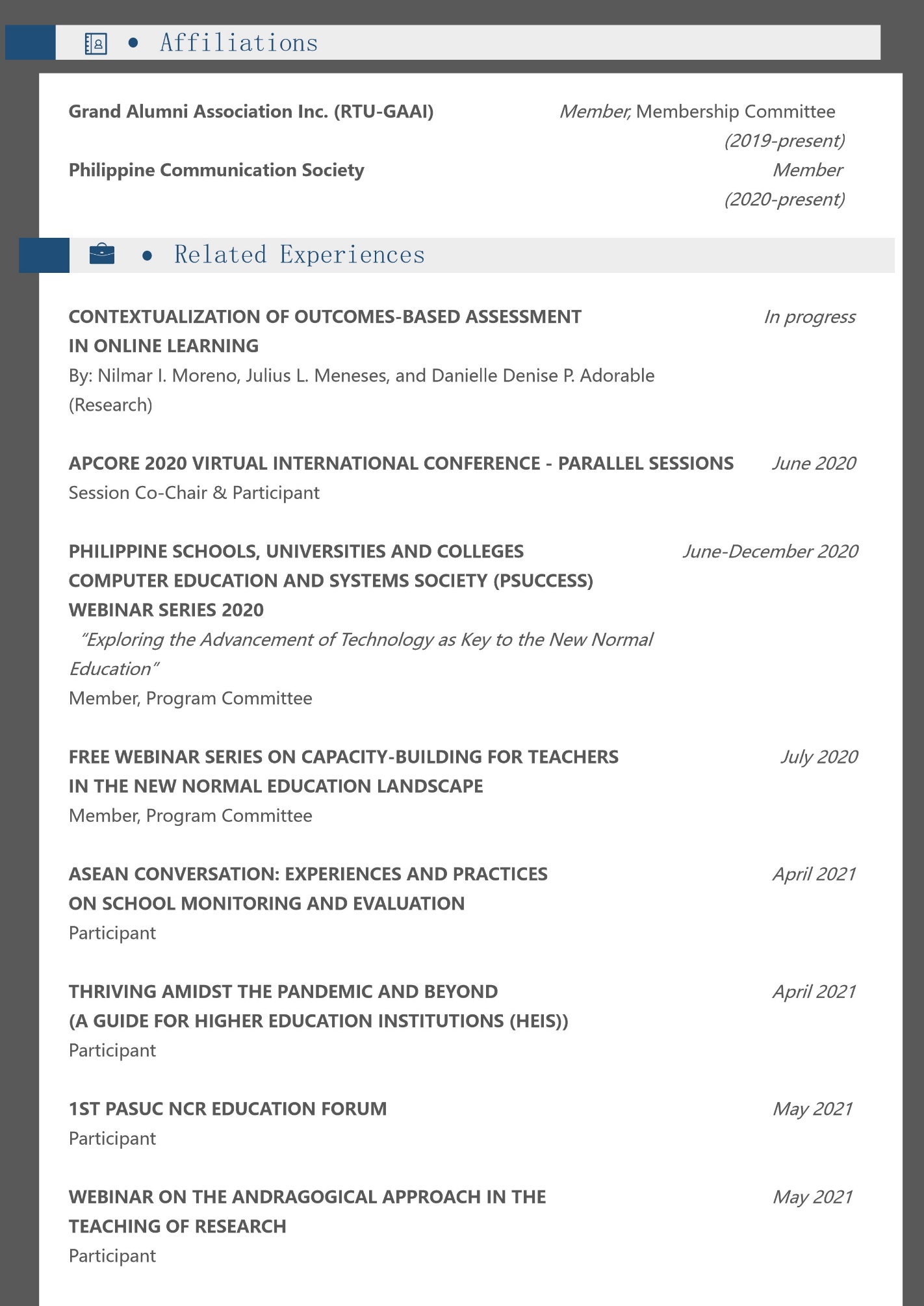
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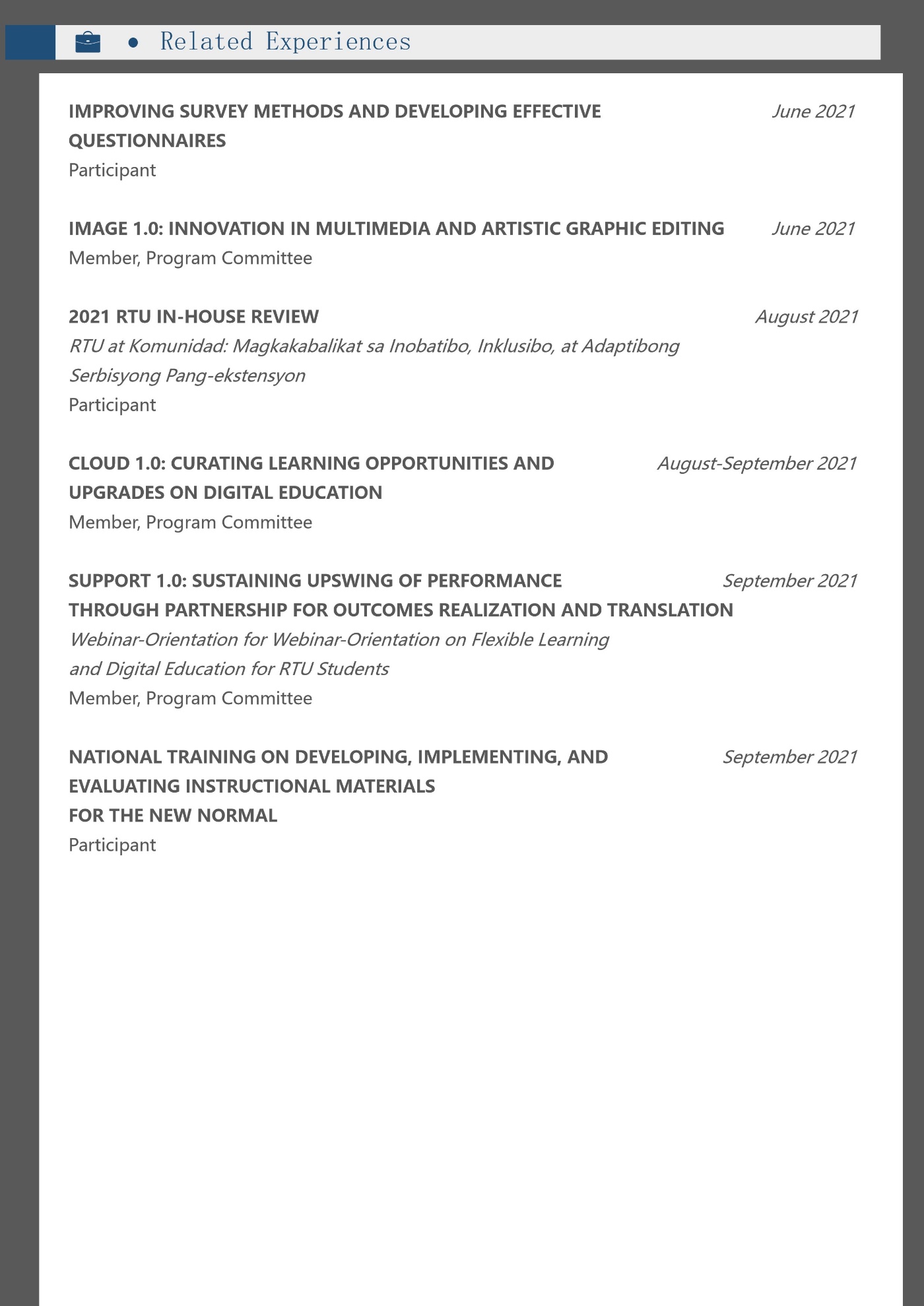
Appendices

Resource Persons



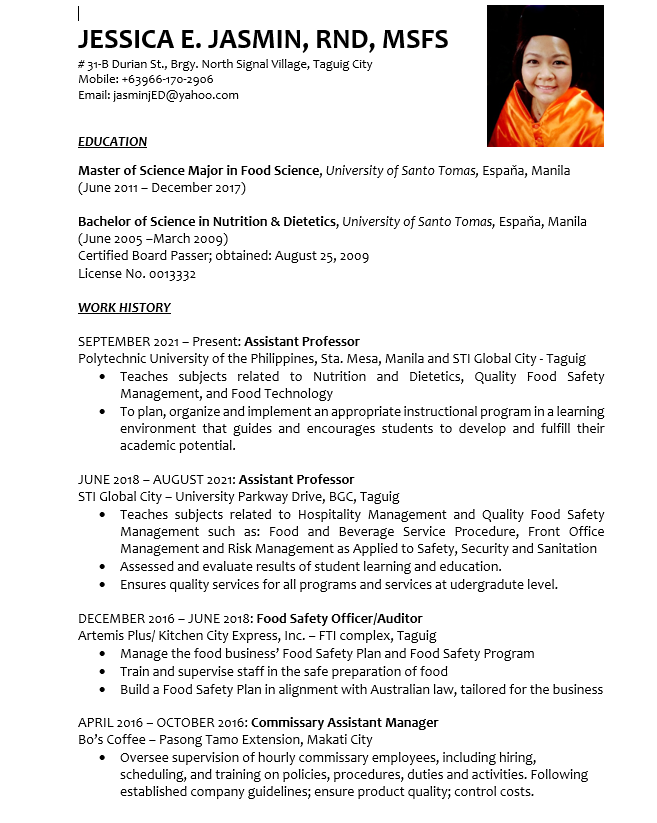


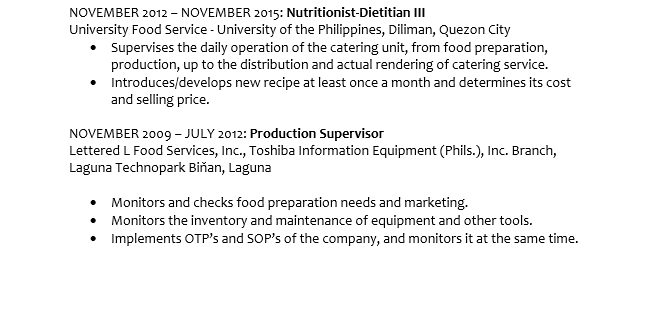






Nutritionist-Dietitian





Relevant Source Code

FlashLogo Xml

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:background="@drawable/newcapturelogo"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".FlashLogo">  
  
 <ImageView  
 android:id="@+id/LOGO"  
 android:layout\_width="337dp"  
 android:layout\_height="501dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.369"  
 app:srcCompat="@drawable/logop" />  
</androidx.constraintlayout.widget.ConstraintLayout>

Flash Java

package com.example.foodpanion;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.os.Handler;

import android.view.View;

import android.view.WindowManager;

import android.widget.ImageView;

public class FlashLogo extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_flash\_logo);

getSupportActionBar().hide();

getWindow().setFlags(WindowManager.LayoutParams.FLAG\_FULLSCREEN,WindowManager.LayoutParams.FLAG\_FULLSCREEN);

getSupportActionBar().hide();

new Handler().postDelayed(new Runnable() {

@Override

public void run() {

Intent intent = new Intent(FlashLogo.this,LoginActivity.class);

startActivity(intent);

finish();

}

},3000);

}

}

Login Xml

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:background="@drawable/newcapturelogo"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<ImageView

android:id="@+id/Logo"

android:layout\_width="163dp"

android:layout\_height="116dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.73"

app:srcCompat="@drawable/logop" />

<Button

android:id="@+id/btnLogin"

android:layout\_width="144dp"

android:layout\_height="56dp"

android:backgroundTint="#F1CFA7"

android:fontFamily="@font/chivo"

android:text="Login"

android:textColor="#352208"

android:textSize="16sp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.842"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.46" />

<TextView

android:id="@+id/txtDontHaveanAccount"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:fontFamily="@font/chivo"

android:text="Don't Have an Account"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.152"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.533" />

<TextView

android:id="@+id/txtSignUp"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:fontFamily="@font/chivo"

android:text="Sign Up"

android:textColor="#9c6644"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.534"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.533" />

<CheckBox

android:id="@+id/cbRemember"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:fontFamily="@font/chivo"

android:text="Remember Me"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.142"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.455" />

<TextView

android:id="@+id/txtWelcomeBack"

android:layout\_width="214dp"

android:layout\_height="39dp"

android:fontFamily="@font/chivo"

android:text="Welcome Back,"

android:textColor="#9c6644"

android:textSize="30dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.208"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.132" />

<TextView

android:id="@+id/txtLogIn"

android:layout\_width="170dp"

android:layout\_height="53dp"

android:fontFamily="@font/chivo"

android:text="Log In!"

android:textColor="#352208"

android:textSize="45dp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.352"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.203" />

<EditText

android:id="@+id/editLoginPass"

android:layout\_width="328dp"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Password"

android:inputType="textPassword"

android:textColorHint="#9c6644"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.493"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.386" />

<EditText

android:id="@+id/editLoginEmail"

android:layout\_width="328dp"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Email"

android:inputType="textEmailAddress"

android:textColorHint="#9c6644"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.493"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.306" />

</androidx.constraintlayout.widget.ConstraintLayout>

Login Java

package com.example.foodpanion;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.util.Log;

import android.view.View;

import android.widget.Button;

import android.widget.CheckBox;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;

import com.android.volley.Request;

import com.android.volley.RequestQueue;

import com.android.volley.toolbox.JsonObjectRequest;

import com.android.volley.toolbox.Volley;

import org.json.JSONException;

import org.json.JSONObject;

public class LoginActivity extends AppCompatActivity {

EditText editLoginEmail, editLoginPass;

Button btnLogin;

TextView txtSignUp;

CheckBox cbRemember;

public String LOGIN\_CREDENTIAL = "login\_credentials";

static final int REQUEST\_CODE = 0;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_login);

getSupportActionBar().hide();

editLoginEmail = findViewById(R.id.editLoginEmail);

editLoginPass = findViewById(R.id.editLoginPass);

txtSignUp = findViewById(R.id.txtSignUp);

btnLogin = findViewById(R.id.btnLogin);

cbRemember = findViewById(R.id.cbRemember);

txtSignUp.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent intent = new Intent(LoginActivity.this, RegisterActivity.class);

startActivity(intent);

}

});

btnLogin.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

sendLogin(); }

});

}

public void sendLogin(){

String userEmail = editLoginEmail.getText().toString().trim();

String emailPattern = "[a-zA-Z0-9.\_-]+@[a-z]+\\.+[a-z]+";

if (userEmail.matches(emailPattern)) {

Toast.makeText(getApplicationContext(), "valid email address", Toast.LENGTH\_SHORT).show();

} else {

Toast.makeText(getApplicationContext(), "Invalid email address", Toast.LENGTH\_SHORT).show();

}

String pass1 = editLoginPass.getText().toString().trim();

if (pass1.isEmpty())

{

Toast.makeText(getApplicationContext(),"Enter password",Toast.LENGTH\_SHORT).show();

}

RequestQueue requestQueue = Volley.newRequestQueue(getApplicationContext());

JSONObject jsonObject = new JSONObject();

try {

jsonObject.put("email", editLoginEmail.getText().toString());

jsonObject.put("password", editLoginPass.getText().toString());

} catch (JSONException e) {

e.printStackTrace();

}

JsonObjectRequest jsonObjectRequest = new JsonObjectRequest(

Request.Method.POST, "http:/192.168.0.32:8000/api/auth/login",

jsonObject,

response -> {

try {

SharedPreferences sharedPreferences = getApplicationContext().getSharedPreferences(LOGIN\_CREDENTIAL, LoginActivity.MODE\_PRIVATE);

SharedPreferences.Editor editor = sharedPreferences.edit();

editor.putString("token", response.getString("token"));

JSONObject JsonUser = response.getJSONObject("user");

editor.apply();

if (JsonUser.getString("status").equals("normal")){

Intent intent = new Intent(LoginActivity.this, NormalWeight.class);

intent.putExtra("user\_id", JsonUser.getInt("id"));

Log.e("user\_data", "here is the id of the user"+JsonUser.getInt("id"));

startActivity(intent);

finish();

}else if(JsonUser.getString("status") == "underweight"){

Intent intent = new Intent(LoginActivity.this, UnderWeight.class);

intent.putExtra("user\_id", JsonUser.getInt("id"));

Log.e("user\_data", "here is the id of the user"+JsonUser.getInt("id"));

startActivity(intent);

finish();

}else if(JsonUser.getString("status") == "overweight"){

Intent intent = new Intent(LoginActivity.this, OverWeight.class);

intent.putExtra("user\_id", JsonUser.getInt("id"));

Log.e("user\_data", "here is the id of the user"+JsonUser.getInt("id"));

startActivity(intent);

finish();

}else if(JsonUser.getString("status") == "obese"){

Intent intent = new Intent(LoginActivity.this, ObeseWeight.class);

intent.putExtra("user\_id", JsonUser.getInt("id"));

Log.e("user\_data", "here is the id of the user"+JsonUser.getInt("id"));

startActivity(intent);

finish();

}else{

Intent intent = new Intent(LoginActivity.this, BodyMassIndex.class);

intent.putExtra("user\_id", JsonUser.getInt("id"));

Log.e("user\_data", "here is the id of the user"+JsonUser.getInt("id"));

startActivity(intent);

finish();

}

} catch (JSONException e) {

e.printStackTrace();

}

},

error -> {

Log.e("volleyError", error.toString());

}

);

requestQueue.add(jsonObjectRequest);

}

Register Xml

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:background="@drawable/newcapturelogo"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<TextView

android:id="@+id/txtHelloFriend"

android:layout\_width="160dp"

android:layout\_height="29dp"

android:fontFamily="@font/chivo"

android:text="Hello Friend"

android:textColor="#9c6644"

android:textSize="20dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.119"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.035" />

<EditText

android:id="@+id/MiddleName"

android:layout\_width="328dp"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Middle Name"

android:inputType="textPersonName"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.337"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.357" />

<EditText

android:id="@+id/LastName"

android:layout\_width="328dp"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Last name"

android:inputType="textPersonName"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.337"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.278" />

<EditText

android:id="@+id/editRegisterName"

android:layout\_width="328dp"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="First name"

android:inputType="textPersonName"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.337"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.202" />

<EditText

android:id="@+id/editRegisterPass"

android:layout\_width="328dp"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Password"

android:inputType="textPassword"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.337"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.511" />

<TextView

android:id="@+id/txtSignUp"

android:layout\_width="183dp"

android:layout\_height="49dp"

android:fontFamily="@font/chivo"

android:text="Sign Up!"

android:textColor="#352208"

android:textSize="40dp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.228"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.079" />

<EditText

android:id="@+id/editRegisterConPass"

android:layout\_width="328dp"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Confirm Password"

android:inputType="textPassword"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.337"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.587" />

<EditText

android:id="@+id/editRegisterEmail"

android:layout\_width="328dp"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Email"

android:inputType="textEmailAddress"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.337"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.434" />

<TextView

android:id="@+id/txtCreateAccount"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:fontFamily="@font/chivo"

android:text="Create Account"

android:textColor="#9c6644"

android:textSize="25sp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.396"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.146" />

<ImageView

android:id="@+id/Logo"

android:layout\_width="144dp"

android:layout\_height="96dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.486"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.79"

app:srcCompat="@drawable/logop" />

<Button

android:id="@+id/btnRegister"

android:layout\_width="132dp"

android:layout\_height="45dp"

android:backgroundTint=" #FFE4C4"

android:fontFamily="@font/chivo"

android:text="Register"

android:textColor="#352208"

android:textSize="16sp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.881"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.653" />

</androidx.constraintlayout.widget.ConstraintLayout>

Register java

package com.example.foodpanion;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.text.TextUtils;

import android.util.Log;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

import com.android.volley.Request;

import com.android.volley.RequestQueue;

import com.android.volley.toolbox.JsonObjectRequest;

import com.android.volley.toolbox.Volley;

import org.json.JSONException;

import org.json.JSONObject;

import java.util.regex.Pattern;

public class RegisterActivity extends AppCompatActivity {

EditText editRegisterName, editRegisterEmail, editRegisterPass, editRegisterConPass,LastName,MiddleName;

Button btnRegister;

public static boolean isValidPassword(String s) {

Pattern PASSWORD\_PATTERN

= Pattern.compile(

"[a-zA-Z0-9\\!\\@\\#\\$]{8,24}");

return !TextUtils.isEmpty(s) && PASSWORD\_PATTERN.matcher(s).matches();

}

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_login\_main);

getSupportActionBar().hide();

editRegisterName = findViewById(R.id.editRegisterName);

editRegisterEmail = findViewById(R.id.editRegisterEmail);

editRegisterPass = findViewById(R.id.editRegisterPass);

LastName = findViewById(R.id.LastName);

MiddleName = findViewById(R.id.MiddleName);

editRegisterConPass = findViewById(R.id.editRegisterConPass);

btnRegister = findViewById(R.id.btnRegister);

btnRegister.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

validateEmail();

validatePassword();

sendRegister();

}

});

}

private void validatePassword() {

String passwordInput = editRegisterPass.getText().toString().trim();

if(isValidPassword(passwordInput)){

Toast.makeText(RegisterActivity.this, "Strong password", Toast.LENGTH\_SHORT).show();

} else {

Toast.makeText(RegisterActivity.this, "Weak password", Toast.LENGTH\_SHORT).show();

}

}

private void validateEmail() {

String userEmail = editRegisterEmail.getText().toString().trim();

String emailPattern = "[a-zA-Z0-9.\_-]+@[a-z]+\\.+[a-z]+";

if (userEmail.matches(emailPattern)) {

Toast.makeText(RegisterActivity.this, "Valid Email", Toast.LENGTH\_SHORT).show();

} else {

Toast.makeText(RegisterActivity.this, "Invalid password", Toast.LENGTH\_SHORT).show();

}

}

public void sendRegister(){

String Fname = editRegisterName.getText().toString().trim();

String Lname = LastName.getText().toString().trim();

String Mname = MiddleName.getText().toString().trim();

String Email = editRegisterEmail.getText().toString().trim();

String pass = editRegisterPass.getText().toString().trim();

String conPass = editRegisterConPass.getText().toString().trim();

String fullname = Fname+ " " + Mname + " " + Lname;

if (Fname.isEmpty())

{

Toast.makeText(RegisterActivity.this, "Enter first name", Toast.LENGTH\_SHORT).show();

}

else if (Lname.isEmpty())

{

Toast.makeText(getApplicationContext(), "Enter last name", Toast.LENGTH\_SHORT).show();

}

else if (Email.isEmpty())

{

Toast.makeText(getApplicationContext(), "Enter Email", Toast.LENGTH\_SHORT).show();

}

else if (pass.isEmpty())

{

Toast.makeText(getApplicationContext(), "Enter password", Toast.LENGTH\_SHORT).show();

}

else if (conPass.isEmpty())

{

Toast.makeText(getApplicationContext(), "Enter confirm password", Toast.LENGTH\_SHORT).show();

}

if(pass.equals(conPass) && !pass.isEmpty() && !conPass.isEmpty()){

RequestQueue requestQueue = Volley.newRequestQueue(getApplicationContext());

JSONObject jsonObject = new JSONObject();

try {

jsonObject.put("name", fullname);

jsonObject.put("email", editRegisterEmail.getText().toString());

jsonObject.put("password", editRegisterPass.getText().toString());

jsonObject.put("password\_confirmation", editRegisterConPass.getText().toString());

} catch (JSONException e) {

e.printStackTrace();

}

Log.d("TAG", "sendRegister: " +jsonObject);

JsonObjectRequest jsonObjectRequest1 = new JsonObjectRequest(

Request.Method.POST,

"http://192.168.0.32:8000/api/auth/register",

jsonObject,

response -> {

},

error -> {

Log.e("volleyError", error.toString());

}

);

requestQueue.add(jsonObjectRequest1);

Intent intent = new Intent(RegisterActivity.this, LoginActivity.class);

startActivity(intent);

}

}

}

Body Mass Index XML

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:background="@drawable/newcapturelogo"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".BodyMassIndex">

<RelativeLayout

android:id="@+id/male"

android:layout\_width="117dp"

android:layout\_height="117dp"

android:layout\_above="@id/heightlayout"

android:layout\_marginLeft="20dp"

android:layout\_marginEnd="43dp"

android:layout\_marginRight="20dp"

android:layout\_marginBottom="7dp"

android:layout\_toStartOf="@id/centerverticalline"

android:background="@drawable/cardbackgroung">

<ImageView

android:layout\_width="56dp"

android:layout\_height="50dp"

android:layout\_above="@+id/textmale"

android:layout\_centerInParent="true"

android:layout\_marginBottom="20dp"

android:src="@drawable/male">

</ImageView>

<TextView

android:id="@+id/textmale"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_alignParentBottom="true"

android:layout\_marginBottom="10dp"

android:text="Male"

android:textAlignment="center"

android:textColor="@color/white"

android:textSize="18sp"

android:textStyle="bold">

</TextView>

</RelativeLayout>

<RelativeLayout

android:id="@+id/female"

android:layout\_width="117dp"

android:layout\_height="117dp"

android:layout\_above="@id/heightlayout"

android:layout\_marginStart="37dp"

android:layout\_marginLeft="20dp"

android:layout\_marginRight="20dp"

android:layout\_marginBottom="5dp"

android:layout\_toEndOf="@id/centerverticalline"

android:background="@drawable/cardbackgroung">

<ImageView

android:layout\_width="57dp"

android:layout\_height="50dp"

android:layout\_above="@+id/textfemale"

android:layout\_centerInParent="true"

android:layout\_marginBottom="20dp"

android:src="@drawable/female">

</ImageView>

<TextView

android:id="@+id/textfemale"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_alignParentBottom="true"

android:layout\_marginBottom="10dp"

android:text="Female"

android:textAlignment="center"

android:textColor="@color/white"

android:textSize="18sp"

android:textStyle="bold">

</TextView>

</RelativeLayout>

<RelativeLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_centerVertical="true"

android:id="@+id/centerhorizontaline" />

<RelativeLayout

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_centerHorizontal="true"

android:id="@+id/centerverticalline" />

<RelativeLayout

android:id="@+id/weight"

android:layout\_width="150dp"

android:layout\_height="150dp"

android:layout\_below="@+id/heightlayout"

android:layout\_marginLeft="20dp"

android:layout\_marginTop="31dp"

android:layout\_marginEnd="23dp"

android:layout\_marginRight="20dp"

android:layout\_marginBottom="20dp"

android:layout\_toStartOf="@+id/centerverticalline"

android:background="@drawable/cardbackgroung">

<TextView

android:id="@+id/textweight"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="15dp"

android:fontFamily="@font/chivo"

android:text="Weight"

android:textAlignment="center"

android:textColor="@color/white"

android:textSize="18sp"

android:textStyle="bold">

</TextView>

<TextView

android:id="@+id/currentweight"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_centerInParent="true"

android:text="55"

android:textAlignment="center"

android:textColor="@color/white"

android:textSize="30sp"

android:textStyle="bold">

</TextView>

<RelativeLayout

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentBottom="true"

android:layout\_marginStart="20dp"

android:layout\_marginBottom="10dp"

android:background="@drawable/plusminus">

<ImageView

android:id="@+id/decrementweight"

android:layout\_width="30dp"

android:layout\_height="30dp"

android:src="@drawable/minus">

</ImageView>

</RelativeLayout>

<RelativeLayout

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="20dp"

android:layout\_marginBottom="10dp"

android:background="@drawable/plusminus">

<ImageView

android:id="@+id/incrementweight"

android:layout\_width="30dp"

android:layout\_height="30dp"

android:src="@drawable/add">

</ImageView>

</RelativeLayout>

</RelativeLayout>

<RelativeLayout

android:id="@+id/age"

android:layout\_width="150dp"

android:layout\_height="150dp"

android:layout\_below="@+id/heightlayout"

android:layout\_marginStart="8dp"

android:layout\_marginLeft="20dp"

android:layout\_marginTop="30dp"

android:layout\_marginRight="20dp"

android:layout\_marginBottom="20dp"

android:layout\_toEndOf="@+id/centerverticalline"

android:background="@drawable/cardbackgroung">

<TextView

android:id="@+id/textage"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="15dp"

android:fontFamily="@font/chivo"

android:text="Age"

android:textAlignment="center"

android:textColor="@color/white"

android:textSize="18sp"

android:textStyle="bold">

</TextView>

<TextView

android:id="@+id/currentage"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_centerInParent="true"

android:text="20"

android:textAlignment="center"

android:textColor="@color/white"

android:textSize="30sp"

android:textStyle="bold">

</TextView>

<RelativeLayout

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentBottom="true"

android:layout\_marginStart="20dp"

android:layout\_marginBottom="10dp"

android:background="@drawable/plusminus">

<ImageView

android:id="@+id/decrementage"

android:layout\_width="30dp"

android:layout\_height="30dp"

android:src="@drawable/minus">

</ImageView>

</RelativeLayout>

<RelativeLayout

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="20dp"

android:layout\_marginBottom="10dp"

android:background="@drawable/plusminus">

<ImageView

android:id="@+id/incrementage"

android:layout\_width="30dp"

android:layout\_height="30dp"

android:src="@drawable/add">

</ImageView>

</RelativeLayout>

</RelativeLayout>

<RelativeLayout

android:id="@+id/heightlayout"

android:layout\_width="340dp"

android:layout\_height="150dp"

android:layout\_above="@id/centerhorizontaline"

android:layout\_centerHorizontal="true"

android:layout\_marginLeft="25dp"

android:layout\_marginRight="25dp"

android:layout\_marginBottom="7dp"

android:background="@drawable/cardbackgroung">

<TextView

android:layout\_width="334dp"

android:layout\_height="wrap\_content"

android:layout\_marginTop="15dp"

android:fontFamily="@font/chivo"

android:text="Height"

android:textAlignment="center"

android:textColor="@color/white"

android:textSize="20sp"

android:textStyle="bold">

</TextView>

<TextView

android:id="@+id/currentheight"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentBottom="true"

android:layout\_centerInParent="true"

android:layout\_marginBottom="50dp"

android:hint="150"

android:textColor="@color/white"

android:textColorHint="#fff"

android:textSize="40sp"

android:textStyle="bold">

</TextView>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_centerInParent="true"

android:layout\_marginStart="20sp"

android:layout\_toEndOf="@+id/currentheight"

android:text="CM"

android:textColor="@color/white"

android:textSize="20sp">

</TextView>

<SeekBar

android:id="@+id/seekbarforheight"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_alignParentBottom="true"

android:layout\_marginLeft="10dp"

android:layout\_marginRight="10dp"

android:layout\_marginBottom="20sp"

android:progressTint="@color/white"

android:thumbTint="@color/white">

</SeekBar>

</RelativeLayout>

<android.widget.Button

android:id="@+id/calculatebmi"

android:layout\_width="match\_parent"

android:layout\_height="40dp"

android:layout\_alignParentBottom="true"

android:layout\_marginLeft="20dp"

android:layout\_marginRight="20dp"

android:layout\_marginBottom="100dp"

android:background="#F1CFA7"

android:text="Calculate Your BMI"

android:textColor="#352208"

android:textSize="15sp"

android:textStyle="bold">

</android.widget.Button>

</RelativeLayout>

BMI Result java

package com.example.foodpanion;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.graphics.Color;  
import android.graphics.drawable.ColorDrawable;  
import android.os.Bundle;  
import android.text.Html;  
import android.util.Log;  
import android.view.View;  
import android.widget.Button;  
import android.widget.ImageView;  
import android.widget.RelativeLayout;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import com.android.volley.Request;  
import com.android.volley.RequestQueue;  
import com.android.volley.toolbox.JsonObjectRequest;  
import com.android.volley.toolbox.Volley;  
  
import org.json.JSONException;  
import org.json.JSONObject;  
  
public class bmiactivity extends AppCompatActivity {  
  
 public Button recalculatebmi;  
 TextView mbmidisplay,mbmicateogory,mgender;  
 Intent intent;  
 ImageView mimageview;  
 String mbmi;  
 int intheight,intweight;  
 float fltbmi,fltheight,fltweight;  
 public Button NMAR;  
 String height;  
 String weight,age;  
 Integer intage,user\_id;  
 RelativeLayout mbackgroud;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_bmiactivity);  
 getSupportActionBar().hide();  
 intent = getIntent();  
 mbmidisplay = findViewById(R.id.bmidisplay);  
 mbmicateogory = findViewById(R.id.bmicategory);  
 mgender = findViewById(R.id.genderdisplay);  
 mbackgroud = findViewById(R.id.contentlayout);  
 mimageview = findViewById(R.id.imageview);  
 recalculatebmi = findViewById(R.id.recalculatebmi);  
  
  
 height = intent.getStringExtra("height");  
 weight = intent.getStringExtra("weight");  
 age = intent.getStringExtra("age");  
 user\_id = intent.getIntExtra("user\_id",0);  
  
 intheight = Integer.parseInt(height);  
 intweight = Integer.parseInt(weight);  
 intage = Integer.parseInt(age);  
  
 fltheight = Float.parseFloat(height);  
 fltweight = Float.parseFloat(weight);  
  
  
 fltheight = fltheight/100;  
 fltbmi = fltweight/(fltheight\*fltheight);  
  
 mbmi = Float.toString(fltbmi);  
  
 String url = "http:/192.168.0.32:8000/api/auth/user/" + user\_id;  
 Log.e("volleyError", url);  
 if(fltbmi<24.9 && fltbmi>18.4)  
 {  
 mbmicateogory.setText("Normal");  
 mbackgroud.setBackgroundColor(Color.BLACK);  
 mimageview.setImageResource(R.drawable.tama);  
  
 NMAR= findViewById(R.id.NMAR);  
 NMAR.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 RequestQueue requestQueue = Volley.newRequestQueue(getApplicationContext());  
 JSONObject jsonObject = new JSONObject();  
 try {  
 jsonObject.put("height", intheight);  
 jsonObject.put("weight", intweight);  
 jsonObject.put("BMI", fltbmi);  
 jsonObject.put("age", intage);  
 jsonObject.put("status", "normal");  
  
 } catch (JSONException e) {  
 e.printStackTrace();  
 }  
 JsonObjectRequest jsonObjectRequest = new JsonObjectRequest(  
 Request.Method.POST,  
 url,  
 jsonObject,  
 response -> {  
 try {  
 Toast.makeText(bmiactivity.this, response.getString("message")+" Normal", Toast.LENGTH\_SHORT).show();  
 Log.e("volleyError", "done adding");  
 } catch (JSONException e) {  
 e.printStackTrace();  
 }  
 },  
 error -> {  
 Log.e("volleyError", error.toString());  
 }  
 );  
 requestQueue.add(jsonObjectRequest);  
 Intent intent = new Intent(bmiactivity.this,NormalWeight.class);  
 intent.putExtra("status", "normal");  
 intent.putExtra("user\_id", user\_id);  
 startActivity(intent);  
 }  
 });  
  
  
 }  
 else if(fltbmi<18.5)  
 {  
 mbmicateogory.setText("Underweight");  
 mbackgroud.setBackgroundColor(Color.BLACK);  
 mimageview.setImageResource(R.drawable.mali);  
  
 NMAR= findViewById(R.id.NMAR);  
 NMAR.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 RequestQueue requestQueue = Volley.newRequestQueue(getApplicationContext());  
 JSONObject jsonObject = new JSONObject();  
 try {  
 jsonObject.put("height", intheight);  
 jsonObject.put("weight", intweight);  
 jsonObject.put("BMI", fltbmi);  
 jsonObject.put("age", intage);  
 jsonObject.put("status", "underweight");  
  
 } catch (JSONException e) {  
 e.printStackTrace();  
 }  
 JsonObjectRequest jsonObjectRequest = new JsonObjectRequest(  
 Request.Method.POST,  
 url,  
 jsonObject,  
 response -> {  
 try {  
 Toast.makeText(bmiactivity.this, response.getString("message")+" Underweight", Toast.LENGTH\_SHORT).show();  
 } catch (JSONException e) {  
 e.printStackTrace();  
 }  
 },  
 error -> {  
 Log.e("volleyError", error.toString());  
 }  
 );  
 requestQueue.add(jsonObjectRequest);  
 Intent intent = new Intent(bmiactivity.this,UnderWeight.class);  
 intent.putExtra("user\_id", user\_id);  
 startActivity(intent);  
 }  
 });  
 }  
 else if(fltbmi<30 && fltbmi>25)  
 {  
 mbmicateogory.setText("Overweight");  
 mbackgroud.setBackgroundColor(Color.BLACK);  
 mimageview.setImageResource(R.drawable.mali);  
 NMAR= findViewById(R.id.NMAR);  
 NMAR.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 RequestQueue requestQueue = Volley.newRequestQueue(getApplicationContext());  
 JSONObject jsonObject = new JSONObject();  
 try {  
 jsonObject.put("height", intheight);  
 jsonObject.put("weight", intweight);  
 jsonObject.put("BMI", fltbmi);  
 jsonObject.put("age", intage);  
 jsonObject.put("status", "overweight");  
  
 } catch (JSONException e) {  
 e.printStackTrace();  
 }  
 JsonObjectRequest jsonObjectRequest = new JsonObjectRequest(  
 Request.Method.POST,  
 url,  
 jsonObject,  
 response -> {  
 try {  
 Toast.makeText(bmiactivity.this, response.getString("message") +" Overweight", Toast.LENGTH\_SHORT).show();  
 } catch (JSONException e) {  
 e.printStackTrace();  
 }  
 },  
 error -> {  
 Log.e("volleyError", error.toString());  
 }  
 );  
 requestQueue.add(jsonObjectRequest);  
 Intent intent = new Intent(bmiactivity.this, OverWeight.class);  
 intent.putExtra("user\_id", user\_id);  
 startActivity(intent);  
 }  
 });  
 }  
  
 else  
 {  
  
 mbmicateogory.setText("Obese");  
 mbackgroud.setBackgroundColor(Color.BLACK);  
 mimageview.setImageResource(R.drawable.mali);  
  
 NMAR= findViewById(R.id.NMAR);  
 NMAR.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 RequestQueue requestQueue = Volley.newRequestQueue(getApplicationContext());  
 JSONObject jsonObject = new JSONObject();  
 try {  
 jsonObject.put("height", intheight);  
 jsonObject.put("weight", intweight);  
 jsonObject.put("BMI", fltbmi);  
 jsonObject.put("age", intage);  
 jsonObject.put("status", "obese");  
  
 } catch (JSONException e) {  
 e.printStackTrace();  
 }  
 JsonObjectRequest jsonObjectRequest = new JsonObjectRequest(  
 Request.Method.POST,  
 url,  
 jsonObject,  
 response -> {  
 try {  
 Toast.makeText(bmiactivity.this, response.getString("message") + " ObeseWeight", Toast.LENGTH\_SHORT).show();  
 } catch (JSONException e) {  
 e.printStackTrace();  
 }  
 },  
 error -> {  
 Log.e("volleyError", error.toString());  
 }  
 );  
 requestQueue.add(jsonObjectRequest);  
 Intent intent = new Intent(bmiactivity.this, ObeseWeight.class);  
 intent.putExtra("user\_id", user\_id);  
 startActivity(intent);  
 }  
 });  
 }  
 mbmidisplay.setText(mbmi);  
 recalculatebmi = findViewById(R.id.recalculatebmi);  
 recalculatebmi.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent intent = new Intent(bmiactivity.this,BodyMassIndex.class);  
 startActivity(intent);  
 }  
 });  
 }  
}

BMI Result Xml

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:background="@drawable/newcapturelogo"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".bmiactivity">

<ImageView

android:id="@+id/imageview"

android:layout\_width="150dp"

android:layout\_height="126dp"

android:layout\_above="@id/contentlayout"

android:layout\_alignParentEnd="true"

android:padding="10dp"

android:src="@drawable/normal"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.536"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.137">

</ImageView>

<RelativeLayout

android:id="@+id/contentlayout"

android:layout\_width="348dp"

android:layout\_height="185dp"

android:layout\_centerInParent="true"

android:background="@drawable/cardbackgroung"

android:padding="20dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.445">

<TextView

android:id="@+id/bmidisplay"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentTop="true"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="0dp"

android:text="55"

android:textColor="@color/white"

android:textSize="50sp"

android:textStyle="bold">

</TextView>

<TextView

android:id="@+id/genderdisplay"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/bmidisplay"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="40dp"

android:textColor="@color/white"

android:textSize="25sp"

android:textStyle="bold">

</TextView>

<TextView

android:id="@+id/bmicategory"

android:layout\_width="wrap\_content"

android:layout\_height="44dp"

android:layout\_alignTop="@+id/bmidisplay"

android:layout\_alignBottom="@+id/genderdisplay"

android:layout\_alignParentEnd="true"

android:layout\_marginStart="35dp"

android:layout\_marginLeft="25mm"

android:layout\_marginTop="70dp"

android:layout\_marginEnd="112dp"

android:layout\_marginRight="25mm"

android:layout\_marginBottom="24dp"

android:fontFamily="@font/chivo"

android:text="Your BMI Cateogory is"

android:textColor="@color/white"

android:textSize="25sp"

android:textStyle="bold">

</TextView>

</RelativeLayout>

<android.widget.Button

android:id="@+id/recalculatebmi"

android:layout\_width="379dp"

android:layout\_height="37dp"

android:layout\_below="@+id/contentlayout"

android:background="#F1CFA7"

android:fontFamily="@font/chivo"

android:text="Recalculate Your BMI"

android:textColor="#352208"

android:textSize="15sp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.688">

</android.widget.Button>

<Button

android:id="@+id/NMAR"

android:layout\_width="195dp"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:backgroundTint="#F1CFA7"

android:text="See tips and recommendation"

android:textColor="#352208"

android:fontFamily="@font/chivo"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.555"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.774" />

</androidx.constraintlayout.widget.ConstraintLayout>

Normal Weight Tips Xml

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:background="#ffe5d9"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".NormalWeight">

<TextView

android:id="@+id/textView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:fontFamily="@font/chivo"

android:text="Normal Weight"

android:textColor="@color/black"

android:textSize="45dp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.494"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.023" />

<com.github.barteksc.pdfviewer.PDFView

android:id="@+id/NormalWeightPdfview"

android:layout\_width="411dp"

android:layout\_height="403dp"

android:background="#ffe5d9"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.444"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.312">

</com.github.barteksc.pdfviewer.PDFView>

<Button

android:id="@+id/BtnChatNormal"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#F1CFA7"

android:text="chat"

android:textColor="#352208"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.498"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.919" />

<Button

android:id="@+id/normalrecalculate"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#F1CFA7"

android:fontFamily="@font/chivo"

android:text="Recalculate"

android:textColor="#352208"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.498"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.849" />

</androidx.constraintlayout.widget.ConstraintLayout>

Normal Weight Tips java

package com.example.foodpanion;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import com.github.barteksc.pdfviewer.PDFView;

public class NormalWeight extends AppCompatActivity {

Button normalrecalculate;

Button BtnChatNormal;

String status;

Integer user\_id;

Intent intent;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_normal\_weight);

getSupportActionBar().hide();

intent = getIntent();

status = intent.getStringExtra("status");

user\_id = intent.getIntExtra("user\_id",0);

normalrecalculate = findViewById(R.id.normalrecalculate);

normalrecalculate.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent intent = new Intent(NormalWeight.this, BodyMassIndex.class);

intent.putExtra("status", "normal");

intent.putExtra("user\_id", user\_id);

startActivity(intent);

}

});

BtnChatNormal = findViewById(R.id.BtnChatNormal);

BtnChatNormal.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent intent = new Intent(NormalWeight.this, CategoryFood.class);

intent.putExtra("status", "normal");

intent.putExtra("user\_id", user\_id);

startActivity(intent);

}

});

PDFView pdfView = findViewById(R.id.NormalWeightPdfview);

pdfView.fromAsset("Tips-and-Recommendation-for-Maintaining-a-Normal-Weight.pdf").load();

}

}

Under Weight Tips Xml

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:background="#ffe5d9"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".UnderWeight">

<com.github.barteksc.pdfviewer.PDFView

android:id="@+id/UnderWeightPdfview"

android:layout\_width="409dp"

android:layout\_height="403dp"

android:background="#ffe5d9"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.444"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.312">

</com.github.barteksc.pdfviewer.PDFView>

<Button

android:id="@+id/UW2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#F1CFA7"

android:fontFamily="@font/chivo"

android:text="Chat"

android:textColor="#352208"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.56"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.904" />

<TextView

android:id="@+id/textView3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:fontFamily="@font/chivo"

android:text="Under Weight"

android:textColor="@color/black"

android:textSize="50dp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.038" />

<Button

android:id="@+id/Underrecalculate"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#F1CFA7"

android:fontFamily="@font/chivo"

android:text="Recalculate"

android:textColor="#352208"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.551"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.834" />

</androidx.constraintlayout.widget.ConstraintLayout>

Under Weight Tips Xml

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:background="#ffe5d9"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".UnderWeight">  
  
 <com.github.barteksc.pdfviewer.PDFView  
 android:id="@+id/UnderWeightPdfview"  
 android:layout\_width="409dp"  
 android:layout\_height="403dp"  
 android:background="#ffe5d9"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.444"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.312">  
  
 </com.github.barteksc.pdfviewer.PDFView>  
  
 <Button  
 android:id="@+id/UW2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:backgroundTint="#F1CFA7"  
 android:fontFamily="@font/chivo"  
 android:text="Chat"  
 android:textColor="#352208"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.56"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.904" />  
  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:fontFamily="@font/chivo"  
 android:text="Under Weight"  
 android:textColor="@color/black"  
 android:textSize="50dp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.038" />  
  
 <Button  
 android:id="@+id/Underrecalculate"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:backgroundTint="#F1CFA7"  
 android:fontFamily="@font/chivo"  
 android:text="Recalculate"  
 android:textColor="#352208"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.551"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.834" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

Under Weight Tips java

package com.example.foodpanion;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
  
import com.github.barteksc.pdfviewer.PDFView;  
  
public class UnderWeight extends AppCompatActivity {  
Button Underrecalculate;  
Button UW2;  
String status;  
 Integer user\_id;  
 Intent intent;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_under\_weight);  
 getSupportActionBar().hide();  
 UW2 = findViewById(R.id.UW2);  
 intent = getIntent();  
 status = intent.getStringExtra("status");  
 user\_id = intent.getIntExtra("user\_id",0);  
 Underrecalculate = findViewById(R.id.Underrecalculate);  
  
  
 Underrecalculate.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent intent2 = new Intent(UnderWeight.this, BodyMassIndex.class);  
 intent2.putExtra("user\_id", user\_id);  
 startActivity(intent2);  
 }  
 });  
 UW2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent intent = new Intent(UnderWeight.this,CategoryFood.class);  
 intent.putExtra("status", "underweight");  
 intent.putExtra("user\_id", user\_id);  
 startActivity(intent);  
 }  
 });  
 PDFView pdfView = findViewById(R.id.UnderWeightPdfview);  
  
 pdfView.fromAsset("Tips-and-Recommendation-for-Underweight.pdf").load();  
  
  
 }  
}

package com.example.foodpanion;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.content.ContextCompat;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.ImageView;

import android.widget.RelativeLayout;

import android.widget.SeekBar;

import android.widget.TextView;

import android.widget.Toast;

public class BodyMassIndex extends AppCompatActivity {

public Button calculatebmi;

TextView currentheight;

TextView currentage,currentweight;

ImageView incrementage,incrementweight,decrementweight,decrementage;

SeekBar seekbarforheight;

RelativeLayout male,female;

int intweight = 55;

int intage = 22;

int currentprogress,user\_id;

String mintprocess = "170";

String typeofuser = "0";

String weight2 = "55";

String age2 = "20";

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_body\_mass\_index);

getSupportActionBar().hide();

calculatebmi = findViewById(R.id.calculatebmi);

currentage = findViewById(R.id.currentage);

currentweight = findViewById(R.id.currentweight);

currentheight = findViewById(R.id.currentheight);

incrementage = findViewById(R.id.incrementage);

decrementage = findViewById(R.id.decrementage);

incrementweight = findViewById(R.id.incrementweight);

decrementweight = findViewById(R.id.decrementweight);

seekbarforheight = findViewById(R.id.seekbarforheight);

male = findViewById(R.id.male);

female = findViewById(R.id.female);

male.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

male.setBackground(ContextCompat.getDrawable(getApplicationContext(),R.drawable.malefemalefocus));

female.setBackground(ContextCompat.getDrawable(getApplicationContext(),R.drawable.malefemalenofocus));

typeofuser = "Male";

}

});

female.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

female.setBackground(ContextCompat.getDrawable(getApplicationContext(),R.drawable.malefemalefocus));

male.setBackground(ContextCompat.getDrawable(getApplicationContext(),R.drawable.malefemalenofocus));

typeofuser = "Female";

}

});

seekbarforheight.setMax(300);

seekbarforheight.setProgress(150);

seekbarforheight.setOnSeekBarChangeListener(new SeekBar.OnSeekBarChangeListener() {

@Override

public void onProgressChanged(SeekBar seekBar, int progress, boolean fromUser) {

currentprogress = progress;

mintprocess = String.valueOf(currentprogress);

currentheight.setText(mintprocess);

}

@Override

public void onStartTrackingTouch(SeekBar seekBar) {

}

@Override

public void onStopTrackingTouch(SeekBar seekBar) {

}

});

incrementage.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

intage = intage+1;

age2 = String.valueOf(intage);

currentage.setText(age2);

}

});

decrementage.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

intage = intage-1;

age2 = String.valueOf(intage);

currentage.setText(age2);

}

});

incrementweight.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

intweight = intweight+1;

weight2 = String.valueOf(intweight);

currentweight.setText(weight2);

}

});

decrementweight.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

intweight = intweight-1;

weight2 = String.valueOf(intweight);

currentweight.setText(weight2);

}

});

calculatebmi.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

if (typeofuser.equals("0"))

{

Toast.makeText(getApplicationContext(),"Select Your Gender First",Toast.LENGTH\_SHORT).show();

}

else if (mintprocess.equals("0"))

{

Toast.makeText(getApplicationContext(),"Select Your Height First",Toast.LENGTH\_SHORT).show();

}

else if (intage == 0 || intage<0)

{

Toast.makeText(getApplicationContext(),"Age Is Incorrect",Toast.LENGTH\_SHORT).show();

}

else if (intweight == 0 || intweight<0)

{

Toast.makeText(getApplicationContext(),"Weight Is Incorrect",Toast.LENGTH\_SHORT).show();

}

else {

Intent intent = new Intent(BodyMassIndex.this,bmiactivity.class);

intent.putExtra("height",mintprocess);

intent.putExtra("weight",weight2);

intent.putExtra("age",age2);

intent.putExtra("gender",typeofuser);

startActivity(intent);

}

}

});

}

}

Under Weight Tips java

package com.example.foodpanion;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import com.github.barteksc.pdfviewer.PDFView;

public class UnderWeight extends AppCompatActivity {

Button Underrecalculate;

Button UW2;

String status;

Integer user\_id;

Intent intent;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_under\_weight);

getSupportActionBar().hide();

UW2 = findViewById(R.id.UW2);

intent = getIntent();

status = intent.getStringExtra("status");

user\_id = intent.getIntExtra("user\_id",0);

Underrecalculate = findViewById(R.id.Underrecalculate);

Underrecalculate.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent intent2 = new Intent(UnderWeight.this, BodyMassIndex.class);

intent2.putExtra("user\_id", user\_id);

startActivity(intent2);

}

});

UW2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent intent = new Intent(UnderWeight.this,CategoryFood.class);

intent.putExtra("status", "underweight");

intent.putExtra("user\_id", user\_id);

startActivity(intent);

}

});

PDFView pdfView = findViewById(R.id.UnderWeightPdfview);

pdfView.fromAsset("Tips-and-Recommendation-for-Underweight.pdf").load();

}

}

Over Weight Tips XML

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:background="#ffe5d9"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".OverWeight">

<com.github.barteksc.pdfviewer.PDFView

android:id="@+id/OverWeightPdfview"

android:layout\_width="409dp"

android:layout\_height="388dp"

android:background="#ffe5d9"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.444"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.312">

</com.github.barteksc.pdfviewer.PDFView>

<Button

android:id="@+id/Overrecalculate"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#F1CFA7"

android:fontFamily="@font/chivo"

android:text="Recalculate"

android:textColor="#352208"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.551"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.834" />

<Button

android:id="@+id/BtnChatOverweight"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#F1CFA7"

android:text="Chat"

android:fontFamily="@font/chivo"

android:textColor="#352208"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.544"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.904" />

<TextView

android:id="@+id/textView6"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:fontFamily="@font/chivo"

android:text="Over Weight"

android:textColor="@color/black"

android:textSize="50dp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.037" />

</androidx.constraintlayout.widget.ConstraintLayout>

Obese Weight Tips Xml

Over Weight Tips Java

package com.example.foodpanion;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import com.github.barteksc.pdfviewer.PDFView;

public class OverWeight extends AppCompatActivity {

Button Overrecalculate;

Button BtnChatOverweight;

String status;

Integer user\_id;

Intent intent;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_over\_weitght);

getSupportActionBar().hide();

Overrecalculate = findViewById(R.id.Overrecalculate);

intent = getIntent();

status = intent.getStringExtra("status");

user\_id = intent.getIntExtra("user\_id",0);

Overrecalculate.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent intent2 = new Intent(OverWeight.this, BodyMassIndex.class);

intent2.putExtra("user\_id", user\_id);

startActivity(intent2);

}

});

BtnChatOverweight = findViewById(R.id.BtnChatOverweight);

BtnChatOverweight.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent intent = new Intent(OverWeight.this,CategoryFood.class);

intent.putExtra("status", "overweight");

intent.putExtra("user\_id", user\_id);

startActivity(intent);

}

});

PDFView pdfView = findViewById(R.id.OverWeightPdfview);

pdfView.fromAsset("Tips-and-Recommendation-for-Overweight.pdf").load();

} }

Obese Weight Tips Xml

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:background="#ffe5d9"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".ObeseWeight">

<com.github.barteksc.pdfviewer.PDFView

android:id="@+id/ObeseWeightPdfview"

android:layout\_width="409dp"

android:layout\_height="406dp"

android:background="#ffe5d9"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.444"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.312">

</com.github.barteksc.pdfviewer.PDFView>

<Button

android:id="@+id/Obeserecalculate"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#F1CFA7"

android:fontFamily="@font/chivo"

android:text="Recalculate"

android:textColor="#352208"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.551"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.846" />

<Button

android:id="@+id/btnChayObese"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:backgroundTint="#F1CFA7"

android:fontFamily="@font/chivo"

android:text="Chat"

android:textColor="#352208"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.554"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.916" />

<TextView

android:id="@+id/textView8"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:fontFamily="@font/chivo"

android:text="Obese"

android:textColor="@color/black"

android:textSize="50dp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.498"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.038" />

</androidx.constraintlayout.widget.ConstraintLayout>

Obese Weight Tips java

package com.example.foodpanion;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import com.github.barteksc.pdfviewer.PDFView;

public class ObeseWeight extends AppCompatActivity {

Button Obeserecalculate;

Button btnChayObese;

String status;

Integer user\_id;

Intent intent;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_obese);

getSupportActionBar().hide();

intent = getIntent();

status = intent.getStringExtra("status");

user\_id = intent.getIntExtra("user\_id",0);

Obeserecalculate= findViewById(R.id.Obeserecalculate);

Obeserecalculate.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent intent2 = new Intent(ObeseWeight.this, BodyMassIndex.class);

intent2.putExtra("user\_id", user\_id);

startActivity(intent2);

}

});

btnChayObese= findViewById(R.id.btnChayObese);

btnChayObese.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent intent = new Intent(ObeseWeight.this,CategoryFood.class);

intent.putExtra("status", "obese");

intent.putExtra("user\_id", user\_id);

startActivity(intent);

}

});

PDFView pdfView = findViewById(R.id.ObeseWeightPdfview);

pdfView.fromAsset("Tips-and-Recommendation-for-Obese.pdf").load();

}

}

Category Food Xml

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:background="@drawable/newcapturelogo"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".CategoryFood">

<ImageView

android:id="@+id/dessert"

android:layout\_width="271dp"

android:layout\_height="69dp"

android:scaleType="centerCrop"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.599"

app:srcCompat="@drawable/dessertd" />

<ImageView

android:id="@+id/lunch"

android:layout\_width="271dp"

android:layout\_height="69dp"

android:scaleType="centerCrop"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.385"

app:srcCompat="@drawable/lunchd" />

<ImageView

android:id="@+id/imageView5"

android:layout\_width="163dp"

android:layout\_height="116dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.804"

app:srcCompat="@drawable/logop" />

<ImageView

android:id="@+id/breakfast"

android:layout\_width="271dp"

android:layout\_height="69dp"

android:scaleType="centerCrop"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.277"

app:srcCompat="@drawable/breakfastd" />

<ImageView

android:id="@+id/dinner"

android:layout\_width="271dp"

android:layout\_height="69dp"

android:scaleType="centerCrop"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.493"

app:srcCompat="@drawable/dinnerd" />

<TextView

android:id="@+id/txtallergy"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:fontFamily="@font/chivo"

android:text="Click to check FoodPanion Creators disclaimer"

android:textSize="15dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/imageView5"

app:layout\_constraintVertical\_bias="0.106" />

<TextView

android:id="@+id/textView9"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:fontFamily="@font/chivo"

android:text="Choose your meal"

android:textColor="#352208"

android:textSize="30sp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.496"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.185" />

<Button

android:id="@+id/Normallogout"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_above="@+id/heightlayout"

android:layout\_alignEnd="@+id/heightlayout"

android:backgroundTint="#F1CFA7"

android:fontFamily="@font/chivo"

android:textStyle="bold"

android:text="Log out"

android:textColor="#352208"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.913"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.057" />

<ImageView

android:id="@+id/BackCategory"

android:layout\_width="40dp"

android:layout\_height="42dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.069"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.056"

app:srcCompat="@drawable/backbt" />

</androidx.constraintlayout.widget.ConstraintLayout>

Category Food Java

package com.example.foodpanion;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.ImageView;

import android.widget.TextView;

public class CategoryFood extends AppCompatActivity {

ImageView BackCategory;

TextView txtallergy;

Button Normallogout;

String status;

Integer user\_id;

Intent intent;

ImageView breakfast,lunch,dinner,dessert;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activiyt\_category\_food);

getSupportActionBar().hide();

Normallogout = findViewById(R.id.Normallogout);

breakfast = findViewById(R.id.breakfast);

lunch = findViewById(R.id.lunch);

dinner = findViewById(R.id.dinner);

dessert = findViewById(R.id.dessert);

txtallergy= findViewById(R.id.txtallergy);

txtallergy.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent intent = new Intent(CategoryFood.this, allergyActivity.class);

startActivity(intent);

}

});

intent = getIntent();

status = intent.getStringExtra("status");

user\_id = intent.getIntExtra("user\_id",0);

breakfast.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent intent = new Intent(CategoryFood.this, chat\_activity.class);

intent.putExtra("status", status);

intent.putExtra("choices", "Breakfast");

intent.putExtra("user\_id", user\_id);

startActivity(intent);

}

});

lunch.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent intent = new Intent(CategoryFood.this, chat\_activity.class);

intent.putExtra("status", status);

intent.putExtra("choices", "Lunch");

intent.putExtra("user\_id", user\_id);

startActivity(intent);

}

});

dinner.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent intent = new Intent(CategoryFood.this, chat\_activity.class);

intent.putExtra("status", status);

intent.putExtra("choices", "Dinner");

intent.putExtra("user\_id", user\_id);

startActivity(intent);

}

});

dessert.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent intent = new Intent(CategoryFood.this, chat\_activity.class);

intent.putExtra("status", status);

intent.putExtra("choices", "Dessert");

intent.putExtra("user\_id", user\_id);

startActivity(intent);

}

});

Normallogout.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent intent = new Intent(CategoryFood.this,LoginActivity.class);

startActivity(intent);

}

});

BackCategory= findViewById(R.id.BackCategory);

BackCategory.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent intent = new Intent(CategoryFood.this,BodyMassIndex.class);

startActivity(intent);

}

});

}

}

chat\_activity XML

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:background="@drawable/newcapturelogo"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".chat\_activity">

<androidx.recyclerview.widget.RecyclerView

android:id="@+id/RV"

android:layout\_width="407dp"

android:layout\_height="671dp"

android:layout\_marginStart="4dp"

android:layout\_marginTop="4dp"

android:paddingLeft="10dp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

tools:itemCount="20"

tools:listitem="@layout/activity\_convo">

</androidx.recyclerview.widget.RecyclerView>

<LinearLayout

android:layout\_width="407dp"

android:layout\_height="73dp"

android:layout\_marginStart="10dp"

android:layout\_marginTop="12dp"

android:layout\_marginEnd="10dp"

android:background="@drawable/newcapturelogo"

android:orientation="horizontal"

android:padding="15dp"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/RV">

<EditText

android:id="@+id/message\_inputted"

android:layout\_width="199dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:ems="10"

android:hint="Type text..."

android:inputType="textPersonName" />

<Button

android:id="@+id/button\_send"

android:layout\_width="wrap\_content"

android:layout\_height="37dp"

android:layout\_weight="1"

android:backgroundTint="#F1CFA7"

android:paddingRight="10dp"

android:text="Send"

android:textColor="@color/black" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

chat\_activity java

package com.example.foodpanion;

import android.content.Intent;

import android.os.Bundle;

import android.text.TextUtils;

import android.util.Log;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.ImageView;

import android.widget.TextView;

import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

import androidx.recyclerview.widget.LinearLayoutManager;

import androidx.recyclerview.widget.RecyclerView;

import com.android.volley.Request;

import com.android.volley.RequestQueue;

import com.android.volley.toolbox.JsonObjectRequest;

import com.android.volley.toolbox.Volley;

import org.json.JSONArray;

import org.json.JSONException;

import org.json.JSONObject;

import java.util.ArrayList;

import java.util.List;

public class chat\_activity extends AppCompatActivity {

private RecyclerView CRV;

private ArrayList<Mmodel> list\_of\_mess = new ArrayList<Mmodel>();;

private Madapter crva;

String status,choices;

Integer user\_id;

Intent intent;

private View view;

private Button btn;

TextView input\_here;

private RecyclerView RV;

private Madapter madapter;

private Button send;

private EditText composition\_mess;

final List<Mmodel> msgDtoList = new ArrayList<Mmodel>();

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_chat);

getSupportActionBar().hide();

RV = findViewById(R.id.RV);

intent = getIntent();

status = intent.getStringExtra("status");

choices = intent.getStringExtra("choices");

user\_id = intent.getIntExtra("user\_id",0);

RV.setHasFixedSize(true);

RV.setLayoutManager(new LinearLayoutManager(this));

madapter = new Madapter(this);

RV.setAdapter(madapter);

RequestQueue requestQueue = Volley.newRequestQueue(getApplicationContext());

JSONObject jsonObject = new JSONObject();

try {

jsonObject.put("status", status);

jsonObject.put("choices", choices);

jsonObject.put("query", "");

} catch (JSONException e) {

e.printStackTrace();

}

JsonObjectRequest jsonObjectRequest = new JsonObjectRequest(

Request.Method.POST,

"http://192.168.0.32:8000/api/food/hanap",

jsonObject,

response -> {

try {

JSONArray array = new JSONArray(response.getString("data"));

Log.e("volleyError", ""+array);

String intro = "Welcome to FoodPanion! \n"+choices + " "+" List: " +"\n";

Integer c = 1;

for (int i = 0; i < array.length(); i++) {

JSONObject proObj = array.getJSONObject(i);

intro += c +". " +proObj.getString("foodname") +"\n";

c+=1;

}

Mmodel msgDto = new Mmodel(Mmodel.MSG\_TYPE\_RECEIVED, intro);

msgDtoList.add(msgDto);

madapter.setMessage(msgDtoList);

} catch (JSONException e) {

e.printStackTrace();

}

},

error -> {

Log.e("volleyError", error.toString());

}

);

requestQueue.add(jsonObjectRequest);

Log.e("process\_here", "1" );

composition\_mess = (EditText) findViewById(R.id.message\_inputted);

send = (Button) findViewById(R.id.button\_send);

Log.e("process\_here", "2" );

send.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String msgContent = composition\_mess.getText().toString();

if(!TextUtils.isEmpty(msgContent))

{

Mmodel msgDto = new Mmodel(Mmodel.MSG\_TYPE\_SENT, msgContent);

msgDtoList.add(msgDto);

int newMsgPosition = msgDtoList.size() - 1;

madapter.notifyItemInserted(newMsgPosition);

RV.scrollToPosition(newMsgPosition);

composition\_mess.setText("");

RequestQueue requestQueue1 = Volley.newRequestQueue(getApplicationContext());

JSONObject jsonObject = new JSONObject();

try {

jsonObject.put("status", status);

jsonObject.put("choices", choices);

jsonObject.put("query", msgContent);

} catch (JSONException e) {

e.printStackTrace();

}

JsonObjectRequest jsonObjectRequest = new JsonObjectRequest(

Request.Method.POST,

"http://192.168.0.32:8000/api/food/hanap",

jsonObject,

response -> {

try {

if (!(response.getString("data").equals("[]"))){

JSONArray array = new JSONArray(response.getString("data"));

JSONObject proObj = array.getJSONObject(0);

String intro = "Food Name: \n" + proObj.getString("foodname")+ "\n"+"\n" +Integer.toString(proObj.getInt("calories")) +" calories \n" + proObj.getString("Recipe");

Mmodel response\_food = new Mmodel(Mmodel.MSG\_TYPE\_RECEIVED, intro);

msgDtoList.add(response\_food);

madapter.setMessage(msgDtoList);

}else{

RequestQueue requestQueue = Volley.newRequestQueue(getApplicationContext())

JSONObject jsonObject1 = new JSONObject();

try {

jsonObject.put("status", status);

jsonObject.put("choices", choices);

jsonObject.put("query", "");

} catch (JSONException e) {

e.printStackTrace();

}

JsonObjectRequest jsonObjectRequest1 = new JsonObjectRequest(

Request.Method.POST,

"http://192.168.0.32:8000/api/food/hanap",

jsonObject,

response1 -> {

try {

JSONArray array = new JSONArray(response1.getString("data"));

Log.e("volleyError", ""+array);

String intro = "Unfortunately, this recipe is not yet available.\n";

Integer c = 1;

Mmodel msgDto1 = new Mmodel(Mmodel.MSG\_TYPE\_RECEIVED, intro);

msgDtoList.add(msgDto1);

madapter.setMessage(msgDtoList);

} catch (JSONException e) {

e.printStackTrace();

}

},

error -> {

Log.e("volleyError", error.toString());

}

);

requestQueue.add(jsonObjectRequest1);

}

} catch (JSONException e) {

e.printStackTrace();

}

},

error -> {

Log.e("volleyError", error.toString());

}

);

requestQueue.add(jsonObjectRequest);

}

}

});

}

}

conversation XML

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:padding="5dp">

<LinearLayout

android:id="@+id/chat\_left\_msg\_layout"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_gravity="left"

android:background="#d4a373"

android:orientation="horizontal"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent">

<me.biubiubiu.justifytext.library.JustifyTextView

android:id="@+id/chat\_left\_msg\_text\_view"

android:layout\_width="200dp"

android:layout\_height="fill\_parent"

android:layout\_gravity="center"

android:layout\_margin="10dp"

android:fontFamily="@font/chivo"

android:textSize="15dp"

android:textColor="#352208" />

</LinearLayout>

<LinearLayout

android:id="@+id/chat\_right\_msg\_layout"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_gravity="right"

android:layout\_marginEnd="5dp"

android:background="#FFE4C4"

android:orientation="horizontal"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintTop\_toTopOf="parent">

<me.biubiubiu.justifytext.library.JustifyTextView

android:id="@+id/chat\_right\_msg\_text\_view"

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

android:fontFamily="@font/chivo"

android:layout\_gravity="center"

android:textColor="#352208"

android:textSize="15dp"

android:layout\_margin="10dp" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

Madapter java

package com.example.foodpanion;

import android.content.Context;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.LinearLayout;

import android.widget.TextView;

import androidx.annotation.NonNull;

import androidx.recyclerview.widget.RecyclerView;

import java.util.ArrayList;

import java.util.List;

public class Madapter extends RecyclerView.Adapter<Madapter.holder> {

List<Mmodel> message = new ArrayList<Mmodel>();

Context context;

public Madapter(Context context) {

this.context = context;

}

public void setMessage(List<Mmodel> message) {

this.message = message;

notifyDataSetChanged();

}

@NonNull

@Override

public holder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {

LayoutInflater layoutInflater = LayoutInflater.from(parent.getContext());

View view = layoutInflater.inflate(R.layout.activity\_convo, parent, false);

return new holder(view);

}

@Override

public void onBindViewHolder(@NonNull holder holder, int position) {

Mmodel minsahe = this.message.get(position);

if(minsahe.MSG\_TYPE\_RECEIVED.equals(minsahe.getMsgType()))

{

holder.leftMsgLayout.setVisibility(LinearLayout.VISIBLE);

holder.leftMsgTextView.setText(minsahe.getMsgContent());

holder.rightMsgLayout.setVisibility(LinearLayout.GONE);

}

else if(minsahe.MSG\_TYPE\_SENT.equals(minsahe.getMsgType()))

{

holder.rightMsgLayout.setVisibility(LinearLayout.VISIBLE);

holder.rightMsgTextView.setText(minsahe.getMsgContent());

holder.leftMsgLayout.setVisibility(LinearLayout.GONE);

}

}

@Override

public int getItemCount() {

return message.size();

}

public class holder extends RecyclerView.ViewHolder{

LinearLayout leftMsgLayout;

LinearLayout rightMsgLayout;

TextView leftMsgTextView;

TextView rightMsgTextView;

public holder(@NonNull View itemView) {

super(itemView);

if(itemView!=null) {

leftMsgLayout = (LinearLayout) itemView.findViewById(R.id.chat\_left\_msg\_layout);

rightMsgLayout = (LinearLayout) itemView.findViewById(R.id.chat\_right\_msg\_layout);

leftMsgTextView = (TextView) itemView.findViewById(R.id.chat\_left\_msg\_text\_view);

rightMsgTextView = (TextView) itemView.findViewById(R.id.chat\_right\_msg\_text\_view);

}

}

}

}

Mmodel Java

package com.example.foodpanion;

import org.json.JSONObject;

public class Mmodel {

public final static String MSG\_TYPE\_SENT = "MSG\_TYPE\_SENT";

public final static String MSG\_TYPE\_RECEIVED = "MSG\_TYPE\_RECEIVED";

private String msgContent;

private String msgType;

public Mmodel(String msgType, String msgContent) {

this.msgType = msgType;

this.msgContent = msgContent;

}

public String getMsgContent() {

return msgContent;

}

public void setMsgContent(String msgContent) {

this.msgContent = msgContent;

}

public String getMsgType() {

return msgType;

}

public void setMsgType(String msgType) {

this.msgType = msgType;

}

}

Back End Code

AuthController

<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;

use Illuminate\Support\Facades\Validator;

use Illuminate\Support\Facades\Hash;

use App\Models\User;

use Auth;

class AuthController extends Controller

{

public function \_\_construct() {

$this->middleware('auth:api', ['except' => ['login', 'register','logout','user\_update']]);

}

public function login(Request $request){

$creds = $request->only(['email','password']);

if(!$token=auth()->attempt($creds)){

return json\_encode(['success' => false,'message' => 'invalid credentials']);

}

return json\_encode([ 'message' => 'Login successfully','success' => true,'token' => $token,'user' => auth()->user()

]);

}

public function register(Request $request){

if($request->password\_confirmation == $request->password)

{

$encryptedPass = Hash::make($request->password);

$user = new User;

try{

$user->name = $request->name;

$user->email = $request->email;

$user->password = $encryptedPass;

$user->save();

return $this->login($request);

}

catch(Exception $e){

return response()->json([

'success' => false,

'message' => $e

]);

}

}

else{

return response()->json([

'success' => false,

'message' => 'Password is not the same'

]);

}

}

public function logout() {

// auth()->logout();

Auth::guard('api')->logout();

return response()->json(['message' => 'User successfully signed out']);

}

public function refresh() {

return $this->createNewToken(auth()->refresh());

}

public function userProfile() {

return response()->json(auth()->user());

}

protected function createNewToken($token){

return response()->json([

'token' => $token,

'token\_type' => 'bearer',

'expires\_in' => auth()->factory()->getTTL() \* 60,

'user' => auth()->user()

]);

}

public function user\_update(Request $request, $id){

$data = User::find($id)->update($request->all());

return response()->json(['message' => 'updating success'],200);

}

}

Food

<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;

use Illuminate\Database\Eloquent\Model;

class Food extends Model

{

use HasFactory;

}

CreateFoodsTable

<?php

use Illuminate\Database\Migrations\Migration;

use Illuminate\Database\Schema\Blueprint;

use Illuminate\Support\Facades\Schema;

class CreateFoodsTable extends Migration

{

public function up()

{

Schema::create('foods', function (Blueprint $table) {

$table->id();

$table->string('foodname');

$table->enum('choices', array('Breakfast', 'Lunch' , 'Dinner','dessert'));

$table->enum('for', array('Normal','under-weight','over-weight','obese'));

$table->float('calories');

$table->string('Recipe');

$table->timestamps();

});

}

public function down()

{

Schema::dropIfExists('foods');

}

}

CreatePersonalAccessTokensTable

<?php

use Illuminate\Database\Migrations\Migration;

use Illuminate\Database\Schema\Blueprint;

use Illuminate\Support\Facades\Schema;

class CreatePersonalAccessTokensTable extends Migration

{

public function up()

{

Schema::create('personal\_access\_tokens', function (Blueprint $table) {

$table->bigIncrements('id');

$table->morphs('tokenable');

$table->string('name');

$table->string('token', 64)->unique();

$table->text('abilities')->nullable();

$table->timestamp('last\_used\_at')->nullable();

$table->timestamps();

});

}

public function down()

{

Schema::dropIfExists('personal\_access\_tokens');

}

}

User

<?php

namespace App\Models;

use Illuminate\Contracts\Auth\MustVerifyEmail;

use Illuminate\Database\Eloquent\Factories\HasFactory;

use Illuminate\Foundation\Auth\User as Authenticatable;

use Illuminate\Notifications\Notifiable;

use Laravel\Sanctum\HasApiTokens;

class User extends Authenticatable

{

use HasApiTokens, HasFactory, Notifiable;

protected $fillable = [

'name',

'email',

'password',

'height',

'weight',

'BMI',

'status',

'age',

];

protected $hidden = [

'password',

'remember\_token',

];

protected $casts = [

'email\_verified\_at' => 'datetime',

];

}<?php

use Illuminate\Http\Request;

use Illuminate\Support\Facades\Route;

Route::middleware('auth:sanctum')->get('/user', function (Request $request) {

return $request->user();

});

Route::group(['middleware' => 'api','prefix' => 'auth'], function () {

Route::post('/login', [App\Http\Controllers\AuthController::class, 'login'])->name('login');

Route::post('/register', [App\Http\Controllers\AuthController::class, 'register'])->name('register');

Route::get('/logout', [App\Http\Controllers\AuthController::class, 'logout'])->name('logout');

Route::post('/user/{id}', [App\Http\Controllers\AuthController::class, 'user\_update'])->name('user\_update');

});

Route::group(['middleware' => 'api'], function () {

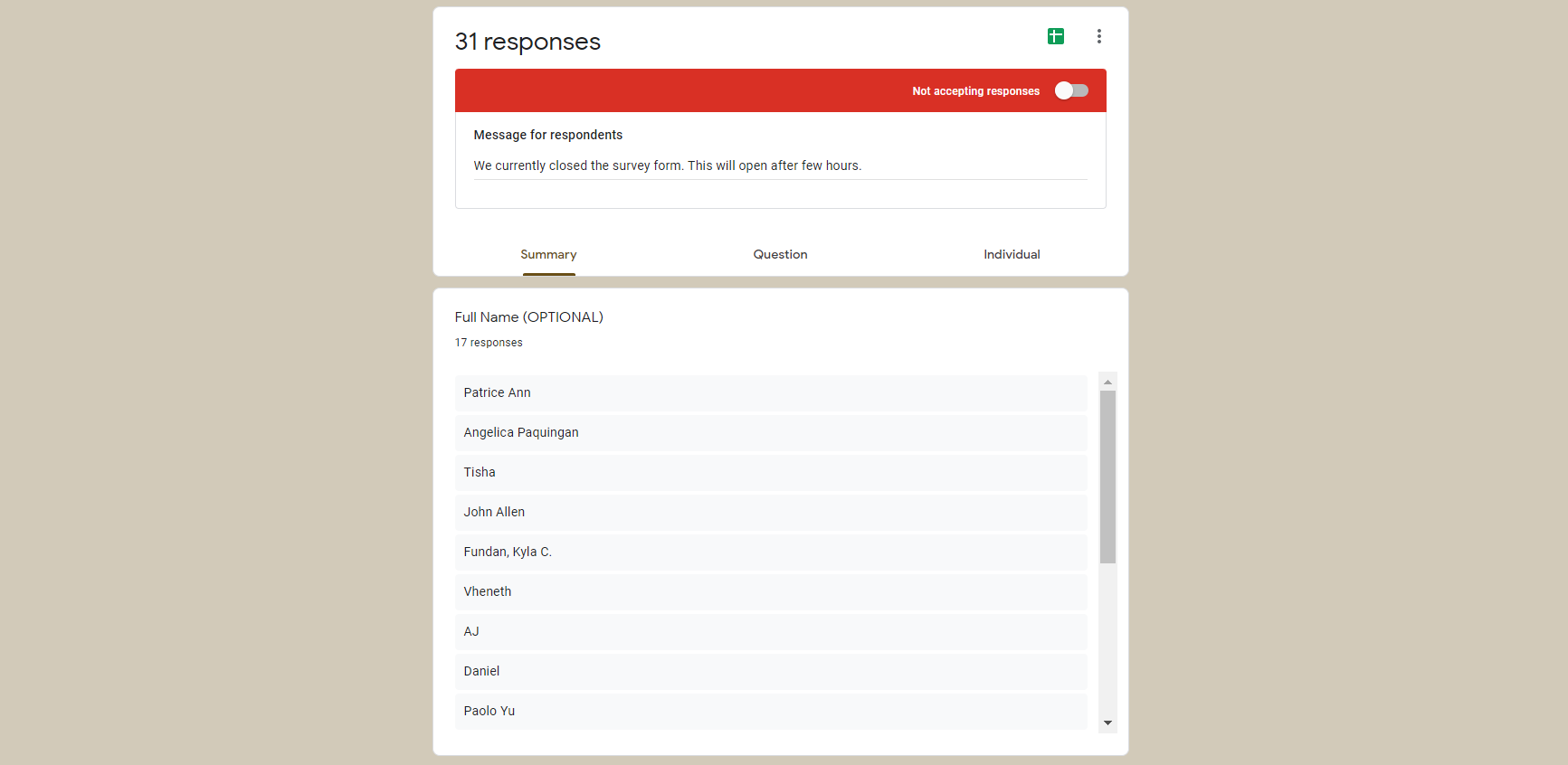
Route::resource('food', App\Http\Controllers\FoodController::class);

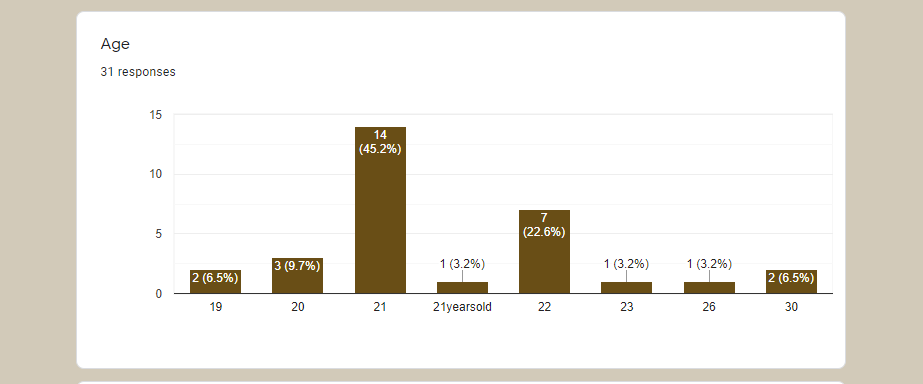
Route::post('/food/hanap', [App\Http\Controllers\FoodController::class, 'hanap\_food'])->name('hanap\_food');

});

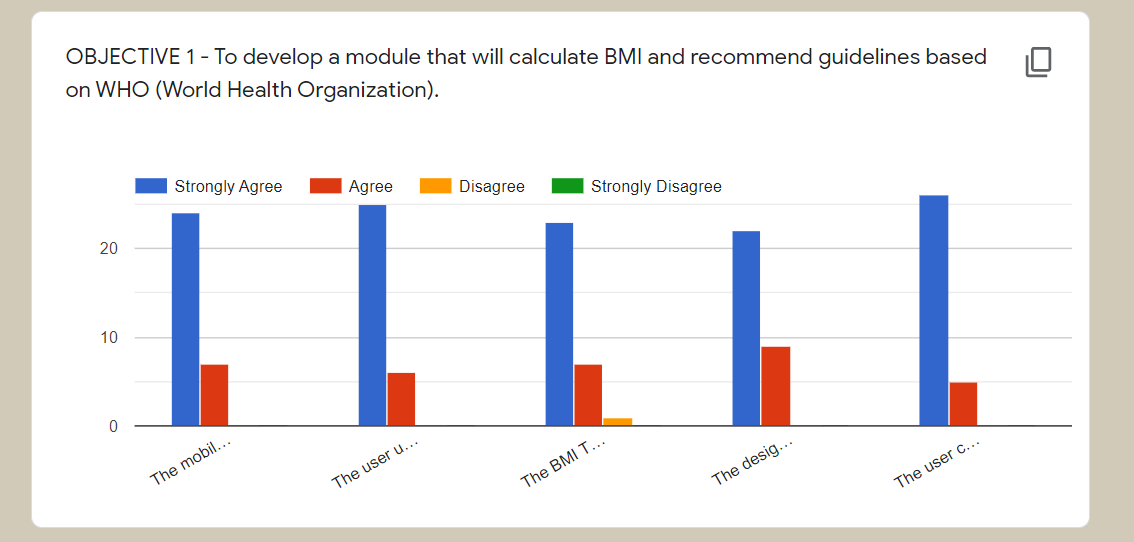
Evaluation Tool or Test Documents

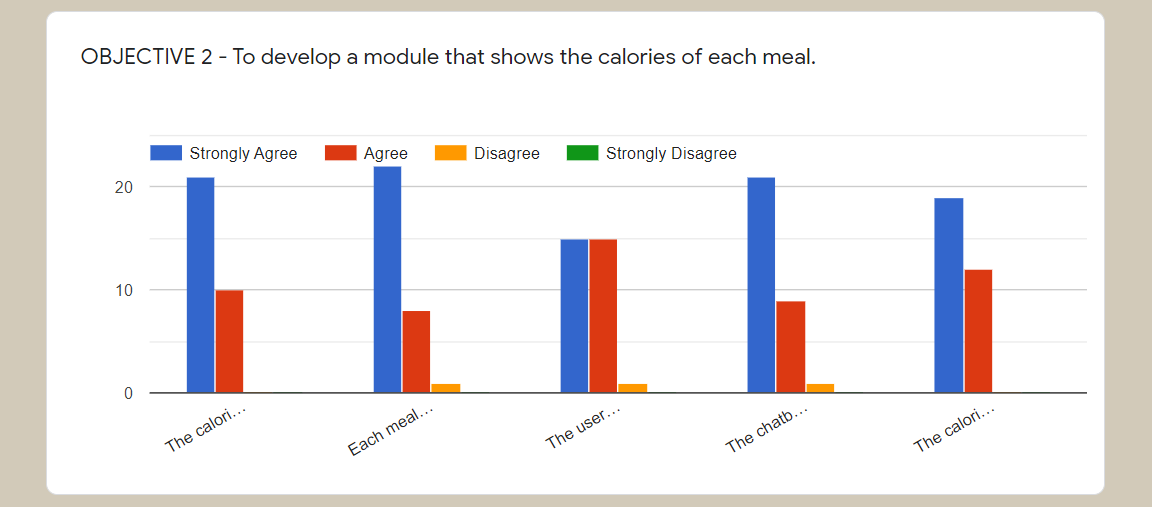
Users from ages 19-30 years old



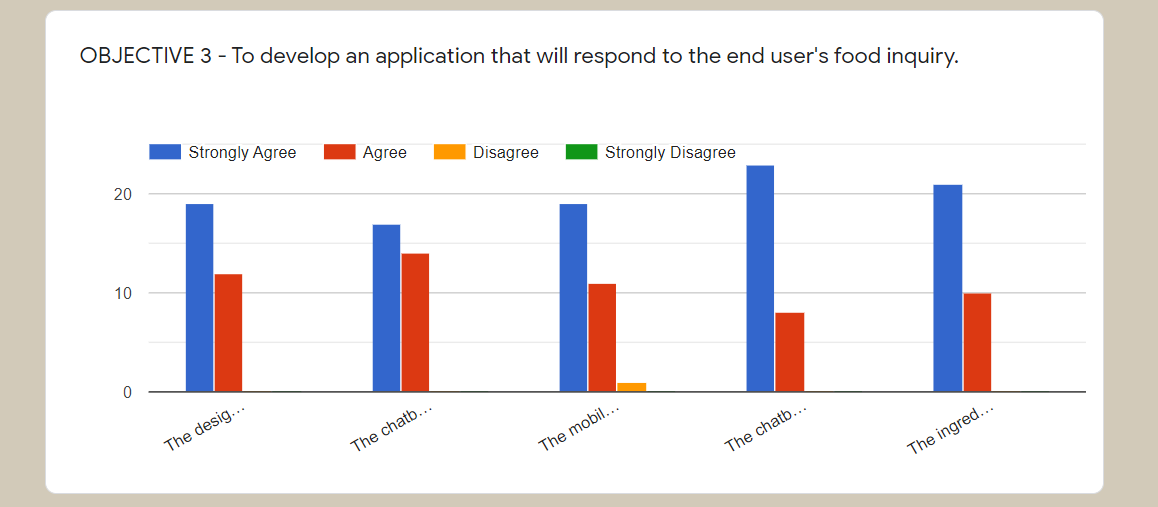


Objective 1



objective 2

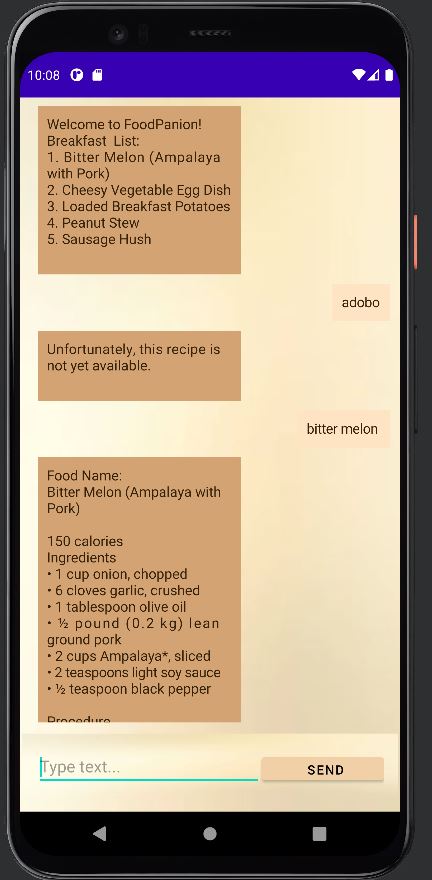
Objective 3



Sample Input/Output/Reports

![A screenshot of a computer

Description automatically generated with low confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHJhdmVuAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3MQAAkpIAAgAAAAM3MQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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User’s Guide

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A screenshot of a phone

Description automatically generated with low confidencev

Enter Email address

Enter a unique Password

Click to login

Click to remember the user’s account

Click to sign up/ register

Text, letter

Description automatically generated

Enter First Name

Enter Email address

Enter a unique Password including (Upper case, Lower case, numbers, and symbols

Re-enter Password

Click to register new account

Enter Last Name

Enter Middle Name

Graphical user interface, application

Description automatically generated

Click to input users desired height

Click to input users desired age

Click to input users desired weight

Click to calculate BMI

Select if the user is Male or Female

Will appear if the user did not complete the needed information

A screenshot of a phone

Description automatically generated with low confidence

Male user’s BMI Result

(Normal)

Click to Recalculate BMI

Click to see Tips and Recommendations according to the user’s BMI

User’s BMI Result

Symbol of Normal weight

A picture containing text, monitor, electronics, screenshot

Description automatically generated

Male user’s BMI Result

(Underweight)

Click to Recalculate BMI

Click to see Tips and Recommendations according to the user’s BMI

User’s BMI Result

Symbol of Underweight, Obese, and Overweight, the same for female result

A screenshot of a phone

Description automatically generated with low confidence

Female user’s BMI Result

(Normal)

Click to Recalculate BMI

Click to see Tips and Recommendations according to the user’s BMI

User’s BMI Result

Symbol of Normal weight



PDF Viewer, must scroll to see some of the Tips and Recommendation

Click to recalculate user’s BMI

Click to go to category meal

![A screenshot of a phone

Description automatically generated with low confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHJhdmVuAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3MAAAkpIAAgAAAAM3MAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHJhdmVuAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM5NAAAkpIAAgAAAAM5NAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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6r/AIR/w528QXH/AIL5f/iaP+Ef8Of9B+4/8F8v/wATQBytFdV/wj/h3/oYJ/8AwXy/4U0+HvD/AP0MM346dL/hQBy9FdP/AMI/4f8A+hhm/wDBdL/hR/wj+gf9DDN/4Lpf8KAOYorp/wDhHtB/6GCb/wAF0v8AhR/wjuhf9B+b/wAF0v8AhQBzFFdN/wAI9oX/AEH5v/BdL/hR/wAI9ofbX5v/AAWy/wCFAHM0V0h8P6KOviCT/wAFstC6Doefm16Zvpp8o/pQBzdFdS+jeHkjHlz6pdueiwWxBP8A30oprQ6VZsEj0mVpY1LMdQuFjYf8ABO76YzQBzcUMk77YUZz7DpUhtmVtn3nH3gvRfqf6VvSfaLmMIdscOOI7dPJiPBzyfmbqMgDmlitI4gMgNg8ADCjr0Hf6nmgRU0+wwolnHAGEU/56Vp0lFAgooooAKKKKACiiigAooooAKfFLJDIJIXaN16MhwR+NFFAFj+0ZnCi4WK4VeoljBLfVvvfrTBPALgPDp9rA5P3og6kfjuoooA3bdJJ48m8vU9ku5B/7NU/2Fsf8hDUf/AyT/GiigYGyYf8xDUP/AyT/GmfY2/5/wDUP/AyT/GiigA+xtz/AKfqH/gZJ/jSfZH/AOf7UP8AwMk/xoooAT7K/wDz/ah/4GSf40fZX/5/9Q/8DZP/AIqiigA+yv8A8/8AqH/gbJ/8VR9lf/n/ANQ/8DZf/iqKKAE+zP8A8/8AqH/gbL/8VSfZn/5/9Q/8DZf/AIqiigA+zvn/AI/tQ/8AA2X/AOKpvlSH/l9v/wDwNl/+KoooAPKk/wCf6/8A/A2X/wCKpDFJ/wA/1/8A+Bsv/wAVRRQAnlSY/wCP6/8A/A2X/wCKpDHKBxfX/wD4Gy//ABVFFACFJf8An9v/APwNl/8AiqTbL/z+3/8A4Gy//FUUUAJiX/n9vv8AwMl/+Ko/ej/l8vv/AAMl/wDiqKKADM2P+Py9/wDAyX/4qkJlB/4/L3/wMl/+KoooAQtMP+Xu9/8AAyX/AOKpplmAP+l3n/gZL/8AFUUUAM8+fP8Ax9Xf/gXL/wDFU03E4/5erv8A8C5f/iqKKAE+0z4/4+bv/wAC5f8A4qka7uB0ubr/AMC5f/iqKKAEN5cj/l5uv/AuX/4qka9uVUkXN10/5+pf/iqKKBCG/ul24ubnlcn/AEqX/wCKqKTVbxJCoubjH/X1L/8AFUUUDE/te8/5+Lj/AMCZf/iqX+17z/n4n/8AAmX/AOKoooAP7Tui2TPNn/r4k/8Aiqf/AGpdEYaWRh7zyH/2aiigRXlkjmbdJbQM395lLH9TTRKyrhNqf7iBT+lFFADSSSSTknqTSUUUAFFFFABRRRQAUUUUAf/Z)

Available recipes for breakfast if not available chatbot will reply “Unfortunately this recipe is not yet available”

User’s input message

Chatbot will reply the complete needed recipe

Personal Technical Vitae (one page per member)

Curriculum Vitae of

CHERRY L. ANDRADE

Blk 18 8th street GHQ Barangay Katuparan Taguig City

andradecherry827@gmail.com

09567942830

EDUCATIONAL BACKGROUND

|  |  |  |
| --- | --- | --- |
| Level | Inclusive Dates | Name of school/ Institution |
| Tertiary | June 2018 - Present | STI Global City |
| Senior High School | June 2016 | Thy Covenant Montessori School |
| High School | June 2012 | Dapdap National High School |
| Elementary | June 2006 | Rizal Elementary School |

PROFESSIONAL OR VOLUNTEER EXPERIENCE

|  |  |  |
| --- | --- | --- |
| Inclusive Dates | Nature of Experience/  Job Title | Name and Address of Company or Organization |
|  |  |  |

Listed in reverse chronological order (most recent first).

AFFILIATIONS

|  |  |  |
| --- | --- | --- |
| Inclusive Dates | Name of Organization | Position |
|  |  |  |
|  |  |  |

Listed in reverse chronological order (most recent first).

SKILLS

|  |  |  |
| --- | --- | --- |
| SKILLS | Level of Competency | Date Acquired |
| SAP | Basic | 2020 |
| MS Office | Basic | 2019 |
| Photo and Video Editing | Basic | 2018 |

TRAININGS, SEMINARS, OR WORKSHOPS ATTENDED

|  |  |
| --- | --- |
| Inclusive Dates | Title of Training, Seminar, or Workshop |
| October 2019 | ENIGMA a Computer Engineering Convention (Arduino Workshop) |
| October 2019 | ENIGMA a Computer Engineering Convention (Cyber Security) |
| October 2019 | ENIGMA a Computer Engineering Convention (Database Management) |
| March 2021 | SAP Business One – SAP Advance (Implementation and Support) |

Curriculum Vitae of

RAVEN P. ATIENZA

23 G-7th Ave. North Signal Taguig City

Atienzaraven17@gmail.com

09672543204/09989341971

EDUCATIONAL BACKGROUND

|  |  |  |
| --- | --- | --- |
| Level | Inclusive Dates | Name of school/ Institution |
| Tertiary | 2018 - Present | STI Global City |
| Vocational/Technical | 2016 - 2018 | President Diosdado Macapagal High School- Taguig |
| High School | 2012 - 2016 | eastern achiever academy of Taguig inc. |
| Elementary | 2006 - 2012 | Kapt. Eddie T. Reyes Integrated School |

PROFESSIONAL OR VOLUNTEER EXPERIENCE

|  |  |  |
| --- | --- | --- |
| Inclusive Dates | Nature of Experience/  Job Title | Name and Address of Company or Organization |
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AFFILIATIONS

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| --- | --- | --- |
| Inclusive Dates | Name of Organization | Position |
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SKILLS

|  |  |  |
| --- | --- | --- |
| SKILLS | Level of Competency | Date Acquired |
| Network | Basic | 2020 |
| Programming (Language C#, Java) | Basic | 2018 |
| Basic Troubleshooting | Basic | 2017 |

TRAININGS, SEMINARS, OR WORKSHOPS ATTENDED

|  |  |
| --- | --- |
| Inclusive Dates | Title of Training, Seminar, or Workshop |
| October 2019 | ENIGMA a Computer Engineering Convention (Arduino Workshop) |
| October 2019 | ENIGMA a Computer Engineering Convention (Cyber Security) |
| October 2019 | ENIGMA a Computer Engineering Convention (Database Management) |
| March 2021 | SAP Business One – SAP Advance (Implementation and Support) |

Curriculum Vitae of

ALLYSON ANNE C. SAMBAJON

11-2 Kabuyao St. Bilog Balangkas Valenzuela City

allysonsambajon0804@gmail.com

0977-417-3504/ (02)294-35-19

EDUCATIONAL BACKGROUND

|  |  |  |
| --- | --- | --- |
| Level | Inclusive Dates | Name of school/ Institution |
| Tertiary | 2018 - present | STI College Global City |
| Senior High School | 2016 - 2018 | STI College Meycauayan |
| High School | 2012 - 2016 | Polo National High School |
| Elementary | 2006 - 2012 | Arcadio F. Deato Elementary School |

PROFESSIONAL OR VOLUNTEER EXPERIENCE

|  |  |  |
| --- | --- | --- |
| Inclusive Dates | Nature of Experience/  Job Title | Name and Address of Company or Organization |
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AFFILIATIONS

|  |  |  |
| --- | --- | --- |
| Inclusive Dates | Name of Organization | Position |
| 2018 - present | Stage Group | Member |
| 2021-2022 | ICT Org.-Neo GenSys | Vice President |
|  |  |  |
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SKILLS

|  |  |  |
| --- | --- | --- |
| SKILLS | Level of Competency | Date Acquired |
| Cisco Packet Tracer | Basic | 2021 |
| SAP | Basic | 2019 |
| HTML, Java, Python | Basic | 2018 |
| Video and Voice Editing | Basic | 2017 |
| MS Office | Basic | 2016 |

TRAININGS, SEMINARS, OR WORKSHOPS ATTENDED

|  |  |
| --- | --- |
| Inclusive Dates | Title of Training, Seminar, or Workshop |
| October 2019 | ENIGMA a Computer Engineering Convention |
| March 2021 | SAP Business One – SAP Advance (Implementation and Support) |
| October 2021 | Student Leaders Webinar/ Leadership with a Mind and Heart |
| October 2021 | The Art of #Padayon and Helping others through Psychological First Aid |

Curriculum Vitae of

**KYLE JOSHUA L. TODA**

**Blk 207 Lot 25 Lotus St. Pembo Makati City**

**kylejoshuatoda31@gmail.com**

**0939-207-2613**

EDUCATIONAL BACKGROUND

|  |  |  |
| --- | --- | --- |
| Level | Inclusive Dates | Name of school/ Institution |
| Tertiary  Senior High School | June - 2018  June - 2016 | STI Global City  STI Global City |
| High School | June - 2012 | Benigno Ninoy S. Aquino High School |
| Elementary | June - 2006 | Pembo Elementary School |

PROFESSIONAL OR VOLUNTEER EXPERIENCE

|  |  |  |
| --- | --- | --- |
| Inclusive Dates | Nature of Experience/  Job Title | Name and Address of Company or Organization |

AFFILIATIONS

|  |  |  |
| --- | --- | --- |
| Inclusive Dates | Name of Organization | Position |
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SKILLS

|  |  |  |
| --- | --- | --- |
| SKILLS | Level of Competency | Date Acquired |
| SAP, Cisco Packet Tracer | Basic | 2020 |
| Java, C#, MySQL | Basic | 2020 |
| Video and Photo Editing | Basic | 2016 |
| MS Office | Basic | 2012 |

TRAININGS, SEMINARS, OR WORKSHOPS ATTENDED

|  |  |
| --- | --- |
| October 2019 | ENIGMA a Computer Engineering Convention (Arduino Workshop) |
| October 2019 | ENIGMA a Computer Engineering Convention (Cyber Security) |
| October 2019 | ENIGMA a Computer Engineering Convention (Database Management) |
| March 2021 | SAP Business One – SAP Advance (Implementation and Support) |