

**TEAM WCKD**

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**Cook Tips**  
**Software Requirements Specification**  
**Version 1.2**

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## Revision History

Date	Version	Description	Author
11/10/2022	1.1	SRS 1.1	Team WCKD
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# Software Requirements Specification

## 1. Introduction

The introduction of the Software Requirements Specification (SRS) provides an overview of the entire SRS with purpose, scope, definitions, acronyms, abbreviations, references and overview of the SRS. The aim of this document is to provide specific details and requirements with regards to the application **Cook Tips**. The detailed requirements of **Cook Tips** are provided in this document.

### 1.1 Purpose

The purpose of this document is to present the necessary gathered ideas that will help in developing an application that will provide guidance to the users in the culinary field. These ideas will help define the system and also provide an outline of how the development will follow. This is to assist the developers in maintaining a proper idea of what the to-be-developed application requires. Note that any documented ideas can be modified or discarded as the development goes on.

### 1.2 Scope

The scope of this project provides an extent or range on the availability of the product on different platforms. This project uses Android Studios as the official IDE and firebase as the database. With Android Studios as the IDE, Java will also be the language to be used. The range or availability of this product is only limited to Android OS-based smartphones. This means that users with Android smartphones are the only ones who can use this application.

### 1.3 Definitions, Acronyms, and Abbreviations

Cook Tips	The name of the app to be developed. The primary goal of this app is to provide users with recipes of a certain meal or unique treats.
Recipe	A set of instructions on how to cook or prepare a food, including the needed ingredients.
Users	The operators of the software application to be developed. For this particular document, users are those who are interested in culinary or food-making.
Android	A popular operating system used mostly on smartphones.
Firebase	A cloud-hosted database that uses JSON tree as the method for data management
Smartphones	A handheld computer with its own Operating System and has its own unique distinctions to separate it from other phones. It has the ability to web browse and use software applications.
Java	A powerful general-purpose programming language. It is used to develop desktop and software applications.

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## 1.4 References

[https://dictionary.cambridge.org/us/dictionary/english/recipe\\_definition](https://dictionary.cambridge.org/us/dictionary/english/recipe_definition)  
[https://www.vocabulary.com/dictionary/user\\_definition](https://www.vocabulary.com/dictionary/user_definition)  
<https://firebase.google.com/docs/database>  
<https://www.techtarget.com/searchmobilecomputing/definition/smartphone#:~:text=A%20smartphone%20is%20a%20cellular,ability%20to%20run%20software%20applications..>  
<https://www.techtarget.com/searchmobilecomputing/definition/Android-OS#:~:text=Android%20OS%20is%20a%20Linux,applications%20that%20can%20be%20downloaded.>

## 1.5 Overview

The succeeding sections of this document provide a general description, including characteristics of the users of this project, the product's hardware, and the functional and data requirements of the product. In section 2, the overall description has been discussed. Then, all the specific requirements including the functionality, usability, reliability and availability, performance, security, design constraints and interfaces of the application to be developed has been elaborately tackled in section 3.

## 2. Overall Description

Cook Tips is a cooking software that will aid users with knowledge necessary to produce a certain recipe, may it be a meal, or a unique weekend treat that will enhance the users' stature as a cook. In this application, users can either search for a specific recipe/s they want to make or add a recipe/s. Additionally, users have also an option to upload an image or a video to show procedures of making a recipe in a more visualized way. Moreover, after choosing a recipe, users can then start cooking following the set of instructions with the run-down timer. Aside from that, users have the option to use the text-to-speech function which provides an audio that reads the instructions. Lastly, to make the application more interactive, users can keep a note or a comment about the recipe and can rate it from 1 -5.

## 3. Specific Requirements

The specific requirements are the following functionalities below:

### 3.4 Functionality

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## **Introduction -**

This subsection contains the requirements for **Cook Tips**, a cooking tutorial system. These requirements are organized by the features discussed in the vision document. Features from the vision documents are then refined into use case diagrams and sequence diagrams to best capture the functional requirements of the system. All these functional requirements can be traced using a traceability matrix.

### **3.4.1 Create Account**

- 3.4.1.1 The system shall display the create account panel.
- 3.4.1.2 The system shall display an error if the user left some fields empty except the optional one's.
- 3.4.1.3 The system should save the user details in a database.
- 3.4.1.4 The system should prompt an error if the user creates an existing username.
- 3.4.1.5 The system shall allow the user to enable see password when entering password.

### **3.4.2 Admin**

- 3.4.2.1 The system shall allow the admin to see and change user details.
- 3.4.2.2 The system shall allow the admin to delete existing accounts.
- 3.4.2.3 The system shall allow the admin to check posts created by users before being posted.
- 3.4.2.4 The system shall allow the admin to delete inappropriate comments in recipe details.
- 3.4.2.5 The system shall allow the admin to delete inappropriate posts, posted by users.
- 3.4.2.6 The system shall allow the admin to send notifications to the users.

### **3.4.3 Home**

- 3.4.3.1 The system shall display all the recipes inside the app created by other users.
- 3.4.3.2 The system shall provide thumbnails and short description of the recipe inside the home panel.

### **3.4.4 Add a recipe**

- 3.4.4.1 The system shall display a panel where the user can input all the necessary information of a certain recipe, including its image etc.
- 3.4.4.2 The system shall save the details the user inputted and wait for the approval from the admin before a certain recipe is being posted.

### **3.4.5 Upload image/video**

- 3.4.5.1 The system shall display an upload button inside the add recipe panel.
- 3.4.5.2 The system shall redirect the user to their gallery once the upload button is clicked.

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### **3.4.6 Recipe Details**

3.4.6.1 The system shall display recipe details including the photos and videos uploaded once the user clicks recipes in the home panel.

3.4.6.2 Start Cooking should be displayed and accessible inside this panel.

3.4.6.3 Reviews or comments should be visible below the recipe details.

### **3.4.7 Start Cooking**

3.4.7.1 The system shall display the start button below the complete details and procedures of the recipe inside the start cooking panel.

3.4.7.2 The system shall display the set of instructions with a rundown timer for each set when the start button is clicked.

3.4.7.3 The system shall display a pause button when the user starts cooking.

### **3.4.8 Note Keeping/Comments**

3.4.8.1 The system shall allow the user to input comments below the recipe details panel.

3.4.8.2 The system shall not allow the user who posted the recipe to delete comments or feedback.

3.4.8.3 The system shall allow users to rate the recipe from 1-5.

### **3.4.9 Search**

3.4.9.1 The system shall display a text box that connects the strings inputted by the user to the database.

3.4.9.2 The system shall redirect the user to the name of the recipe they inputted on the search text box once the search button is clicked.

3.4.9.3 The system shall be able to filter out recipes based on a specific characteristic.

### **3.4.10 Text-To-Speech**

3.4.10.1 The system shall allow the user to have an option to have a text-to-speech function.

3.4.10.2 The system shall provide an audio that reads the instruction to the user.

## **3.5 Usability**

### **3.5.1 Graphical User Interface**

The system shall provide a consistent, modern, and clean interface that does not strain the eyes of the user.

The system shall provide an intuitive sequential workflow for every function of the system.

The system shall provide images and videos for recipes in the recipe catalog whenever necessary.



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The system shall provide a search bar that lets the user look for a specific recipe.

The system shall provide use of catalog bars and icons.

### **3.5.2 Accessibility**

The system shall provide a Text-to-Speech function for easier accessibility.

The system shall provide step-by-step support access.

The system shall provide multi language support.

## **3.6 Reliability & Availability**

### **3.6.1 Back-end Internal Android**

The system shall provide automatic data synchronization in real time.

The system shall provide cloud messaging that delivers and receives messages through Firebase.

The system shall provide for replication of databases to storage disks on different locations.

## **3.7 Performance**

The product shall be based on mobile phones and has to be run from an android operating system.

Initial loading of the product will take some time, depending on the speed of the internet connection and the media source.

The performance shall depend upon hardware components of the client/customer.

## **3.8 Security**

### **3.8.1 Data Storage**

The system's back-end databases shall be encrypted.

The system's back-end servers shall only be accessible to authenticated administrators.

The system shall not leave any cookies on the users phone containing its password.

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### **3.8.2 Data Transfer**

The system will remove any inappropriate recipe uploaded by a user.

The system must verify that a user is uploading a recipe by verifying all required inputs.

## **3.9 Design Constraints**

### **3.9.1 Development Tools**

The system shall be built using Android Studio.

### **3.9.2 Android Based Product**

The phone has to be an Android so that users may access the system.

Android phones must be at least version 6.0+ for users to use the system.

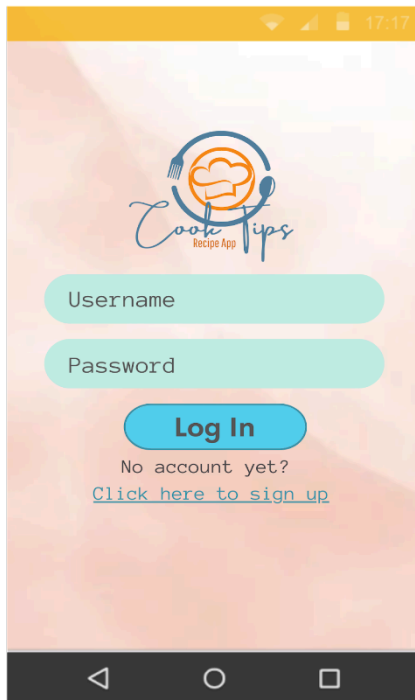
Users must have a basic understanding of how android phones work to use the system.

### **3.10 Interfaces**

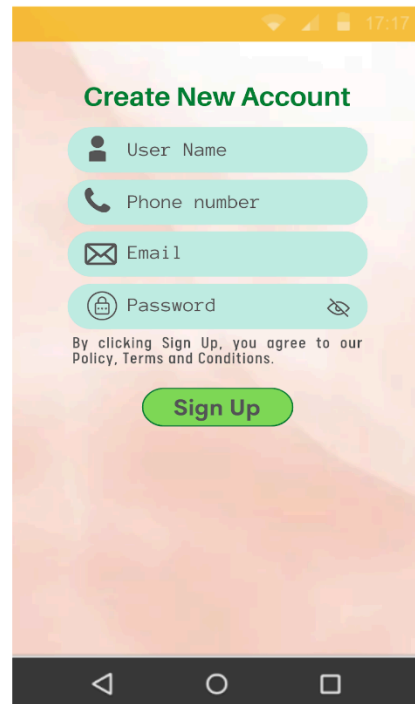
This section of the SRS describes the interface requirements for the system.  
Requirements for user, hardware, software, and communication interface are defined.

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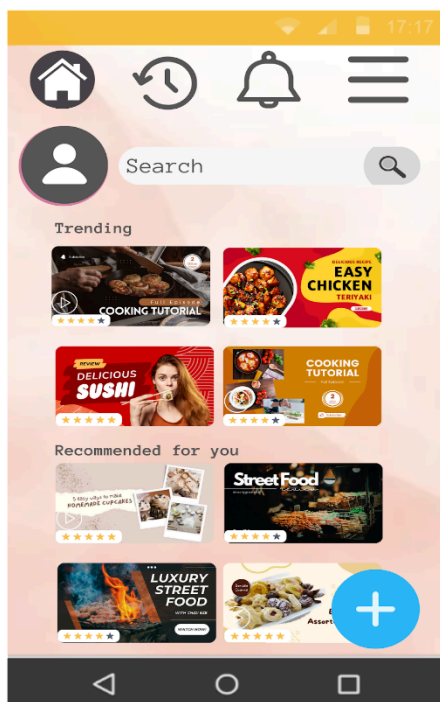
### 3.10.1 User Interface



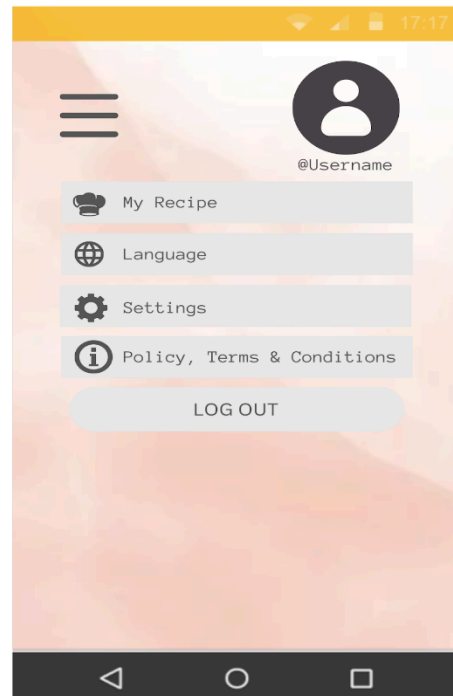
3.10.1.1 – Log-in



3.10.1.2 – Create Account

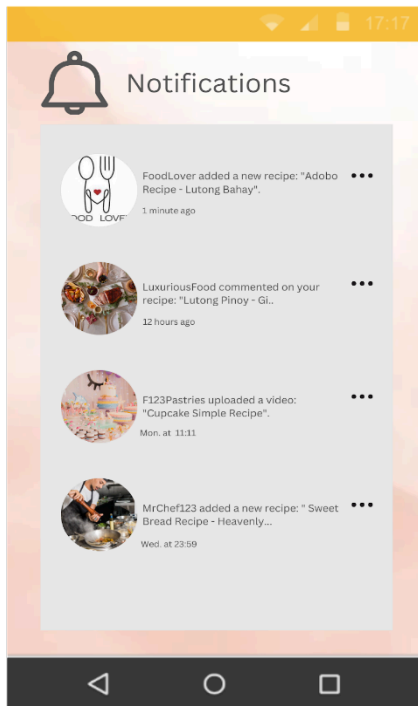


3.10.1.3 – Main Menu

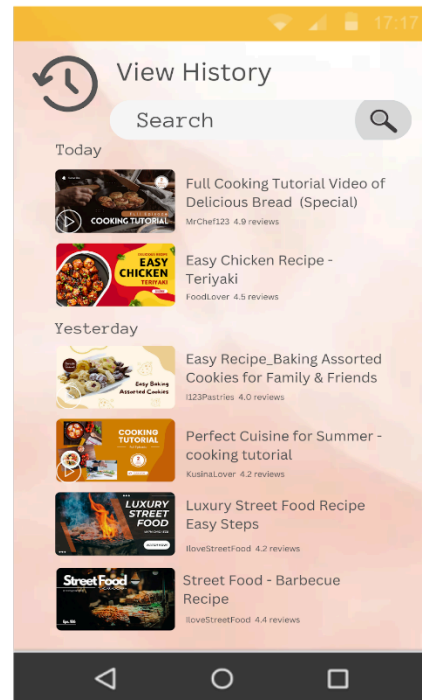


3.10.1.4 – Account

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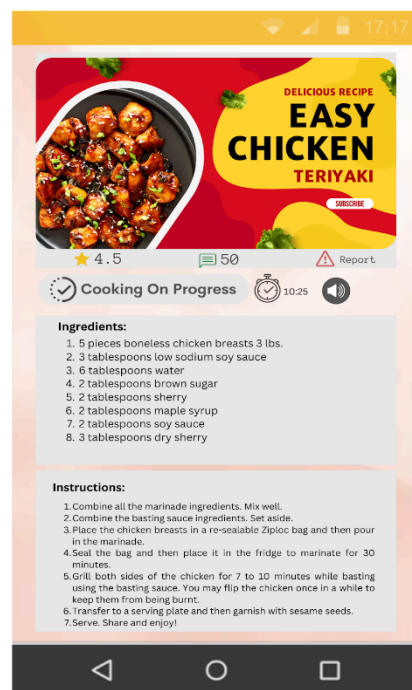
3.10.1.5 – Notifications



3.10.1.6 – View History



3.10.1.7 – Start Cooking



3.10.1.8 – Cooking in Progress

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3.10.1.9 – Add a Recipe

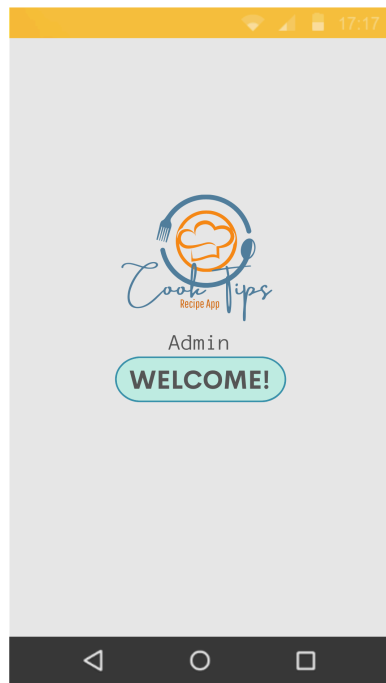
3.10.1.10 – My Recipe

3.10.1.11 – Language

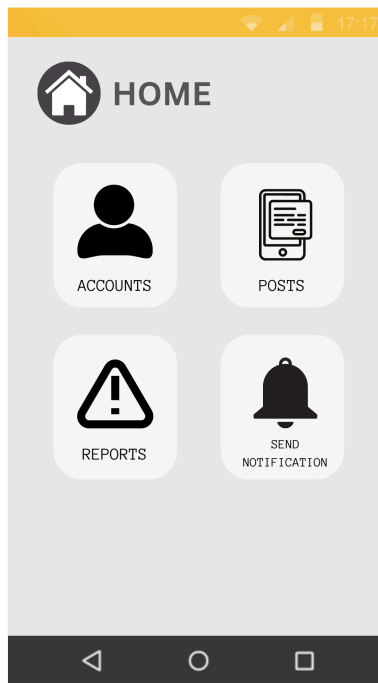
3.10.1.12 - Settings

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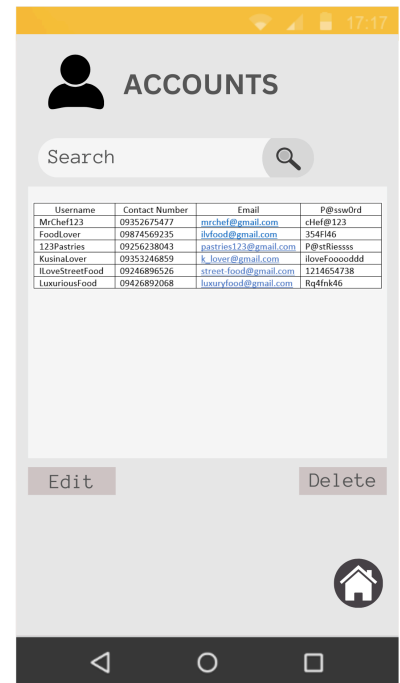
## For Admin User Interface



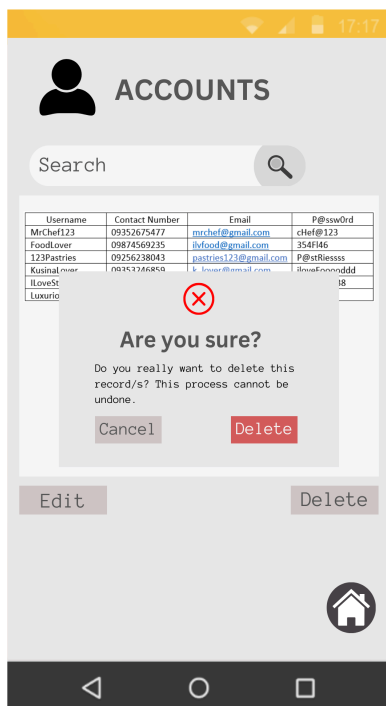
3.10.1.13 - Welcome



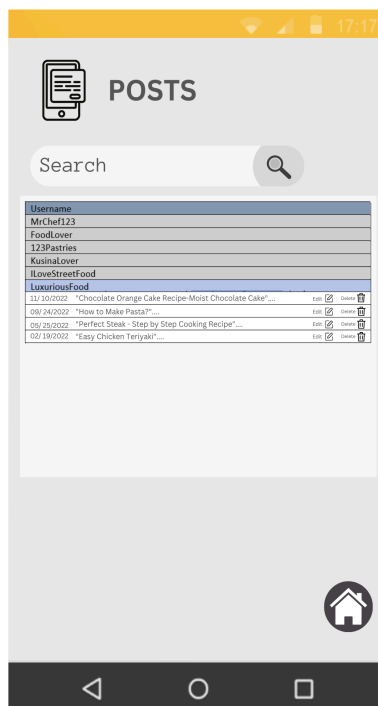
3.10.1.14 - Home



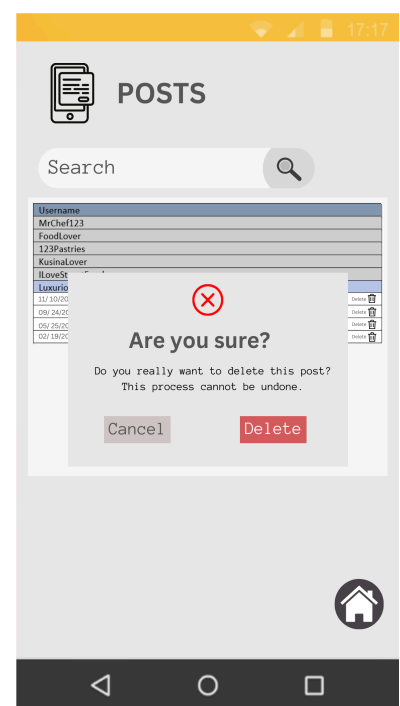
3.10.1.15 - Accounts



3.10.1.16 - Accounts Delete Prompt

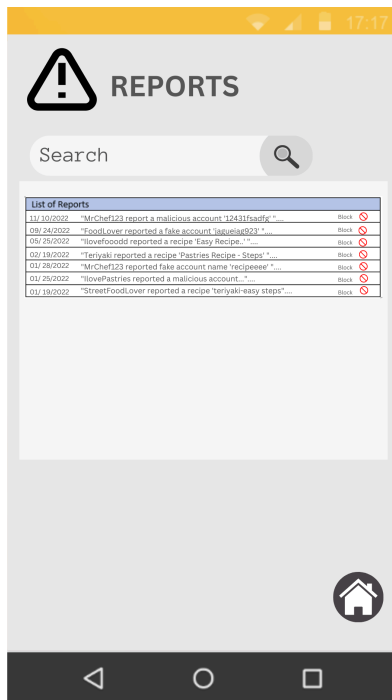


3.10.1.17 - Posts

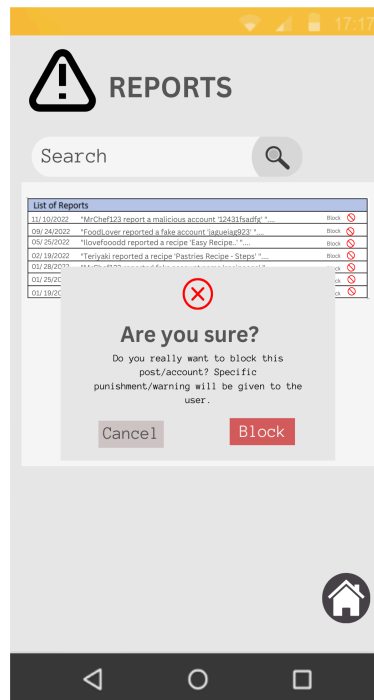


3.10.1.18 - Posts Delete Prompt

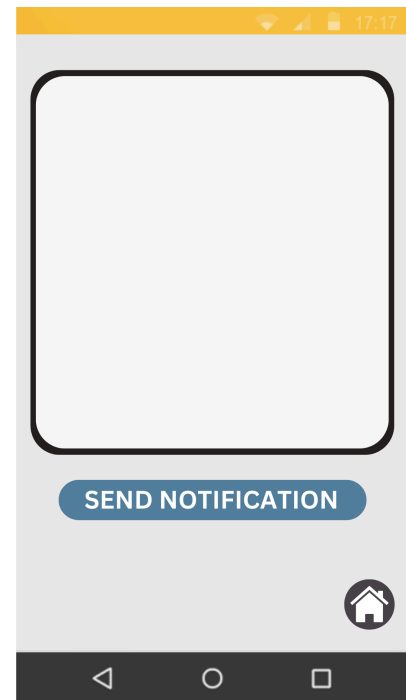
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3.10.1.19 - Reports



3.10.1.20 - Reports Block Prompt



3.10.1.21 - Send Notification

### 3.10.2 Hardware Interface

The system requires an Android operating system to be installed and operated by the user. The internet will be used in the system, the hardware required to connect the internet will be the hardware interface for the system.

### 3.10.3 Software Interface

- The system uses the Android operating system environment.
- The Integrated Development Environment (IDE) used for the system is the Android Studio Chipmunk 2021, with the use of programming language Java.
- The system uses a database, specifically, Firebase Database to store data of each user's recipe, comments, notes, and reviews.
- The system uses the android version Android 5.0 (Lollipop).

### 3.10.4 Communication interface

Communication between users and administrators are within the application.