



# SwappyMate Application

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## SwappyMate Application

### User Manual

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# 1. Introduction

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This User Manual (UM) provides the necessary information for users to effectively utilize the SwappyMate Currency Conversion Application (SwappyMate).

SwappyMate is a user-friendly currency conversion tool designed to simplify the way users convert and track foreign exchange rates. The application serves as a digital solution for quick, accurate, and accessible currency conversions, replacing the need for manual rate checking or unreliable third-party tools. By offering real-time exchange rates, recent conversion history, and customizable currency settings, SwappyMate enhances user experience and supports smarter financial decisions for students, travelers, and professionals alike.

The app features a clean, intuitive interface that enables users to convert between currencies, view historical data, and manage personal preferences with ease. Whether you're managing travel budgets, studying finance, or conducting international transactions, SwappyMate is designed to make currency conversion faster, simpler, and more reliable.

## Summary of Purpose

Creating a user manual for the SwappyMate Currency Conversion App is essential for several important reasons. This handbook serves as a comprehensive guide to help users understand and operate the application effectively, ensuring consistency in usage and minimizing confusion or errors. It offers step-by-step instructions and troubleshooting tips to resolve common issues users may encounter during currency conversions or while navigating app features.

The manual functions as a valuable reference tool, supporting both new and returning users by providing clear explanations of the app's features, capabilities, and limitations. It enhances the onboarding experience for first-time users and can be utilized as a training resource for educational or organizational purposes.

Additionally, the handbook ensures safe and appropriate use of the system, aligning with best practices and maintaining the integrity of the user experience. As SwappyMate evolves and new functionalities are introduced, the manual can be updated accordingly, serving as a living document that reflects the current state of the application.

Customer support teams also benefit from the manual, as it helps them better understand the system's operations and address user inquiries more effectively. Overall, this user manual empowers users to operate SwappyMate securely, independently, and efficiently, while also reducing reliance on technical support.

## Development Scope

The creation of the SwappyMate User Manual involved a structured and thorough development process to ensure the content is accurate, user-centric, and easy to follow. The process began with in-depth research into the needs and behaviors of users who frequently engage in currency conversion, including travelers, students, and finance-related professionals. We gathered insights from potential users and reviewed industry best practices to better understand common challenges and expectations in using such applications.

Following this, the app was tested extensively to ensure that each function such as converting currencies, viewing historical data, and managing preferences was correctly documented. Every instruction and guideline in the manual was carefully crafted and verified to reflect real user scenarios.

Collaborative discussions among team members and early users were held to collect feedback and refine the content. This iterative approach allowed us to improve clarity, relevance, and completeness based on diverse perspectives and real-world usage.

Through this combination of research, practical testing, and collaborative refinement, the resulting user manual is a well-rounded resource aimed at helping users navigate the SwappyMate application smoothly, enhance their confidence in using the system, and ultimately improve their overall experience.

## Intended Users

This User Manual is intended to support a wide range of users in effectively and confidently utilizing the SwappyMate Currency Conversion App. It serves as a practical guide for individuals such as students, travelers, educators, business professionals, and anyone who frequently deals with foreign currencies.

Through clear instructions and user-friendly guidance, the manual enables users to understand and operate the app's features without confusion or error. By following the step-by-step instructions and explanations provided, users can make informed decisions, perform accurate currency conversions, and manage their preferences efficiently.

Whether the user is converting currency for academic, travel, business, or personal finance purposes, this manual ensures a smooth onboarding experience and serves as a reliable reference whenever support is needed. It empowers users to maximize the benefits of SwappyMate while minimizing common mistakes, ultimately enhancing their financial awareness and convenience.

## Document Evolution

As technology continues to advance and user needs evolve, the SwappyMate Currency Conversion App will undergo continuous development to incorporate new features and improvements. The primary objective of these enhancements is to make the app more intuitive, efficient, and user-friendly, ensuring a seamless experience for all users.

Future updates will focus on refining the interface, improving the accuracy and speed of currency conversions, and introducing additional functionalities such as advanced conversion tracking, personalized currency alerts, and deeper historical data analysis. These upgrades are designed to enhance usability and provide more value to users in their daily currency-related activities.

In addition to feature enhancements, the application will receive regular maintenance updates aimed at identifying and resolving bugs or performance issues. This ensures the system remains stable, secure, and dependable over time.

This user manual will be updated alongside each major version of SwappyMate to reflect the

latest features, system changes, and best practices. By maintaining alignment with ongoing technological progress and user feedback, this document will continue to serve as a reliable and up-to-date resource that supports effective use of the application across all user types.

## **Security and Privacy Considerations**

To ensure the integrity and confidentiality of the SwappyMate Currency Conversion App and its associated documentation, the following security and privacy measures must be observed:

**(a) Sensitive Information:**

This manual may include important operational details such as user procedures, app settings, and account management guidelines. It is intended for authorized users only.

**(b) Access Control:**

Only approved individuals are permitted to access or use this manual. Sharing, copying, or distributing the content without permission is strictly prohibited.

**(c) Handling Procedures:**

Digital versions should be stored in secure, password-protected folders. Printed copies must be labeled “Confidential” and kept in locked storage to prevent unauthorized access.

**(d) Data Protection Measures:**

Where possible, digital files should be encrypted. All copies must be handled in line with basic data protection practices to ensure the integrity and privacy of the information.

**(e) Usage Guidelines:**

Do not leave the manual visible or accessible to others when in use. Avoid sharing excerpts, screenshots, or instructions without proper approval.

**(f) Incident Reporting:**

If there is any sign of unauthorized access, loss, or misuse of this manual, report it immediately to the app administrator or relevant support team.

**(g) Periodic Reviews and Updates:**

This section will be reviewed and revised regularly to reflect changes in the app, its features, or access policies, ensuring continued protection and relevance.



## 1.1 Overview

### SwappyMate App Overview and Purpose

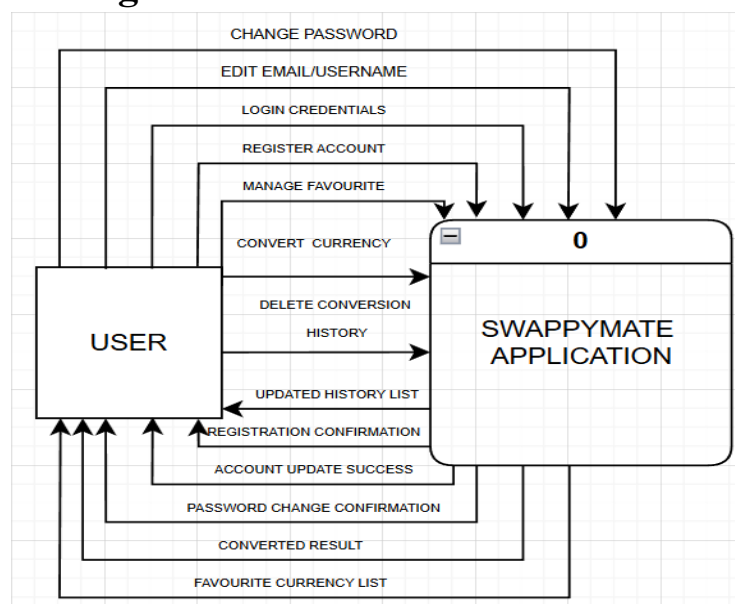
SwappyMate is a mobile-based currency conversion application designed to offer users a fast, accurate, and user-friendly solution for converting currencies in real time. The app is built to support individuals such as travelers, students, and professionals who frequently need to convert between different currencies with ease and reliability.

The core purpose of SwappyMate is to simplify currency conversion by providing up-to-date exchange rates, a clean interface, and a smooth user experience. One of the key features of the app is its support for personalized preferences, allowing users to customize their experience to suit their needs.

Among these preferences is the Favourite Currencies feature, which lets users save their most frequently used currency pairs for quick access. This helps streamline the conversion process and reduces repetitive input, making the app more efficient and tailored to each user's habits.

SwappyMate empowers users to manage their conversions more effectively, with tools that make the process intuitive, fast, and personalized.

### Business Context Diagram



## Key Features and Major Functions

### Key Features:

- **Currency Conversion**  
Users can instantly convert between a wide range of currencies using live exchange rates for accurate and real-time results.
- **Favourite Currency Management**  
Users can mark frequently used currency pairs as favourites for faster access and convenience.
- **User Account Registration & Login**  
Secure account creation and login ensure that user data and preferences are protected and personalized.
- **Profile Editing**  
Users can update their email or username to keep their profile information current.
- **Password Management**  
Users are allowed to change their passwords securely to maintain account privacy and security.

### Major Functions:

- **Convert Currency**  
Allows users to input a base currency, target currency, and amount to receive a converted value.
- **Manage Favourites**  
Users can add or remove currency pairs from their favourites list for quicker access.
- **Register Account**  
Enables new users to create an account to begin using the app.
- **Login Credentials**  
Authenticates existing users to access personalized features like history and favourites.
- **Edit Email/Username**  
Lets users modify their profile information through the settings page.
- **Change Password**  
Provides a secure process to update the user's password.

## Architecture

The SwappyMate App is a mobile-based currency conversion application that operates using a client-server architecture. The user's mobile device (client) interacts with a central backend server, which processes currency conversion requests, manages user data, and stores conversion history. Real-time exchange rates are fetched via an integrated external API to ensure accurate conversion results.

## User Access Mode

Users interact with the SwappyMate App through an intuitive and responsive graphical user interface (GUI). The interface is designed for ease of use, enabling users to navigate seamlessly through features such as currency conversion, account management, history viewing, and favourite currency management. All functions are accessible directly within the app.

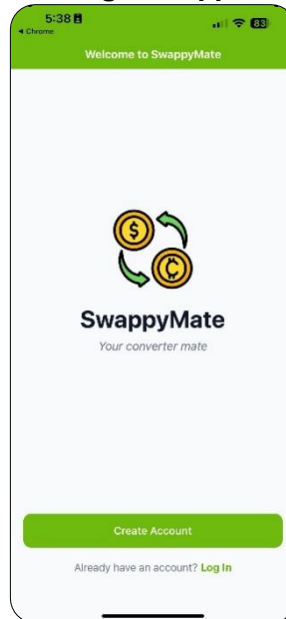
## System Environment and Special Conditions

SwappyMate requires a stable internet connection to fetch live exchange rates and sync user data. The application is compatible with modern smartphones and tablets running iOS or Android. It is optimized for regular use and includes features such as user authentication, secure data handling, and periodic updates to ensure smooth performance and user security. The system is maintained regularly to address bugs, improve features, and ensure compliance with data protection standards.

## 2. Getting Started

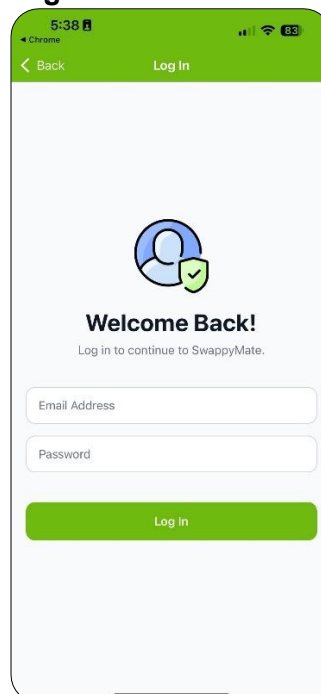
### Walkthrough of SwappyMate App

#### 1. Starting the App



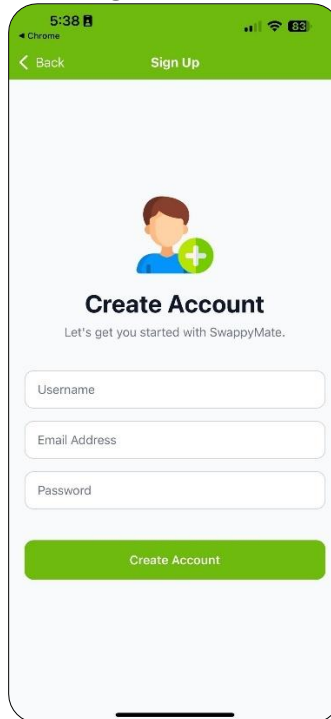
Main screen of the SwappyMate App upon opening.

#### 2. Login Account



Login screen for users to retrieve information from the database.


### 3. Register Account



5:38

Chrome

< Back Sign Up



**Create Account**  
Let's get you started with SwappyMate.

Username

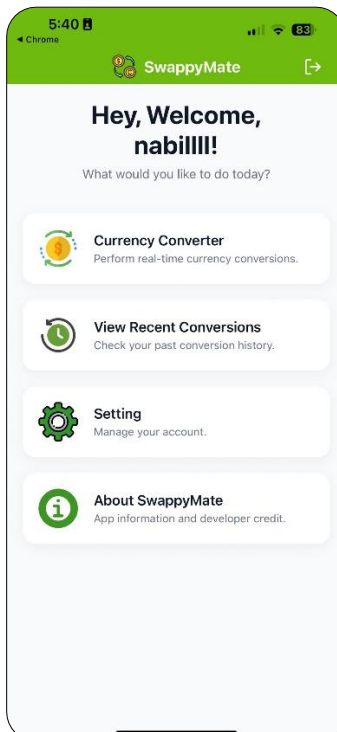
Email Address

Password

Create Account


Sign Up Screen for new users to insert details into the database.

### 4. Landing Page





5:40


Chrome


 SwappyMate [→]

**Hey, Welcome, nabillll!**  
What would you like to do today?

 **Currency Converter**  
Perform real-time currency conversions.

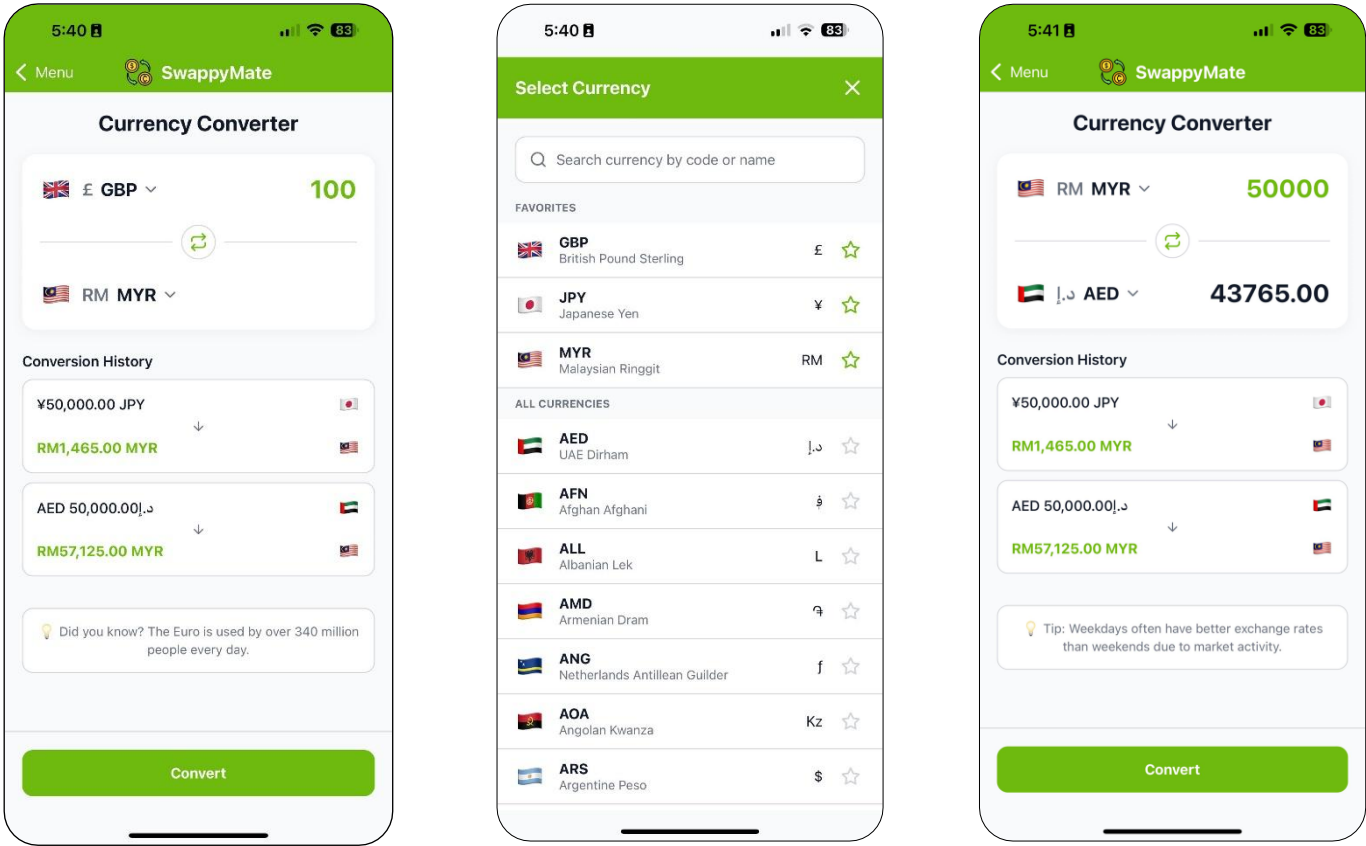
 **View Recent Conversions**  
Check your past conversion history.

 **Setting**  
Manage your account.

 **About SwappyMate**  
App information and developer credit.

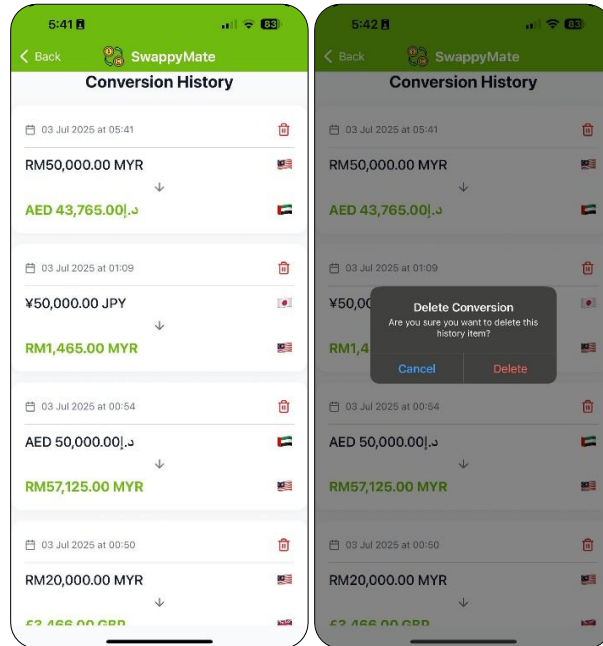
Main Menu page for users to choose the next navigation.

5. Currency Converter Page



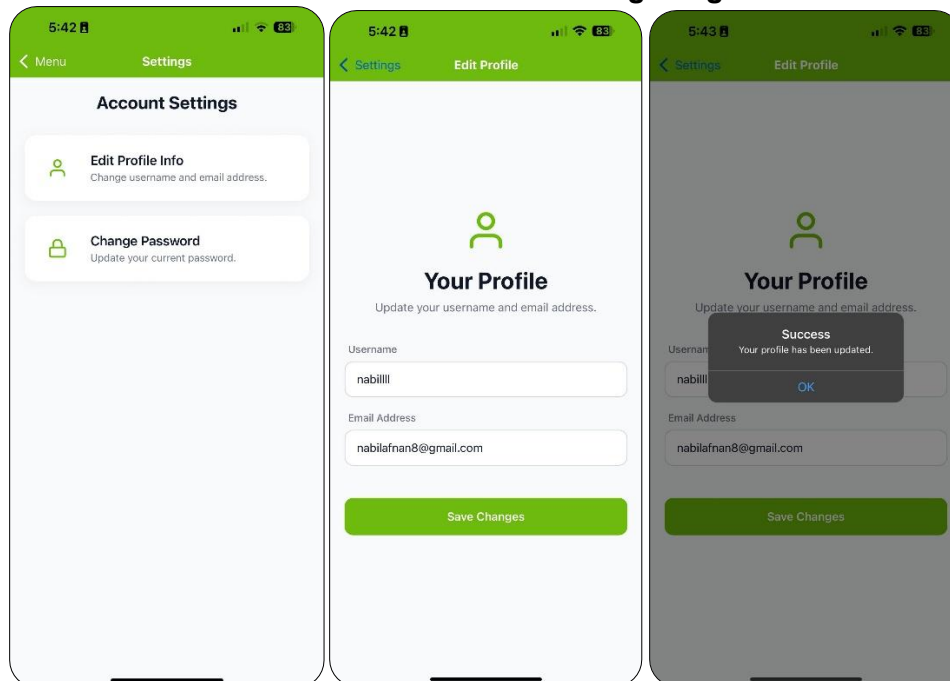
Interface for Currency Conversion

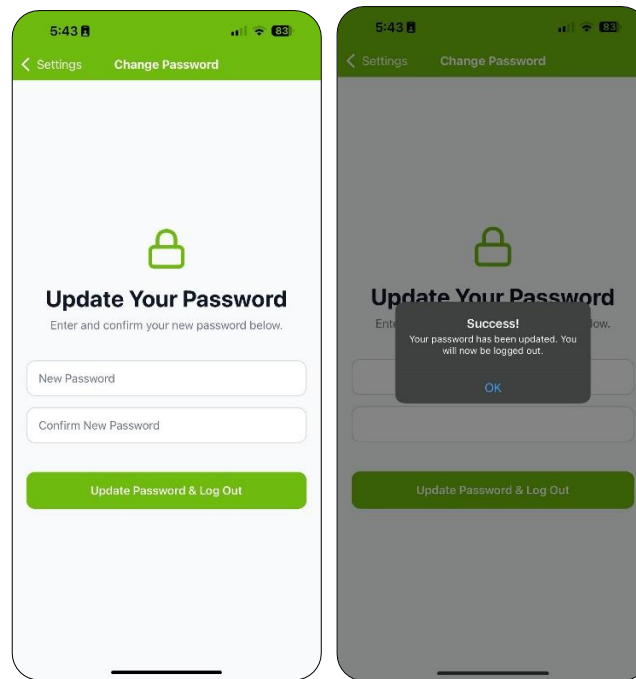
## 6. View Recent Conversions Page



View Recent Conversion Page. Conversion History where it can be deleted.

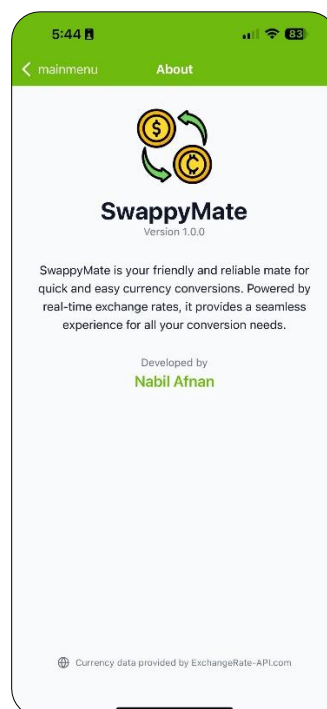
## 7. Account Settings Page





Account Setting, Edit Profile and Change Password Page.

## 8. About Page



About page provides users with key information about the SwappyMate app, including its function, version, creator, and the API it uses for currency data.



## 2.1 Cautions & Warnings

Before using the SwappyMate Currency Conversion App, please review the following cautions and warnings to ensure safe, secure, and proper usage:

- Unauthorized Access

Access to user accounts or sensitive app features without proper authorization is strictly prohibited. Any attempts to breach account security or misuse system permissions may result in account suspension or legal action.

- Data Privacy

Users are responsible for keeping their login credentials secure. Avoid sharing passwords or personal information through unverified channels to protect your data and prevent unauthorized access to your account.

- System Integrity

Do not tamper with the app's settings, configurations, or underlying code. Unauthorized modifications may lead to system errors, data loss, or performance issues, and may violate terms of service.

## Permissions and Waivers

If you intend to copy, share, or redistribute any content, materials, or data generated through the SwappyMate Application, you must first obtain proper authorization. To request permission, please follow these guidelines:

1. **Contact the Administrator**

Reach out to the SwappyMate system administrator or the designated authority responsible for content permissions.

2. **Specify the Request**

Clearly identify the content or material you wish to use and explain the purpose or context of your intended usage.

3. **Submit Required Documentation**

Complete and submit any applicable waiver or permission request forms to formally document your intent.

4. **Await Approval**

Do not proceed with copying, sharing, or redistribution until you receive official confirmation or written approval.

By following these steps, you ensure that all usage remains compliant with SwappyMate's terms and protect the system's integrity and user data.

## 2.2 Set-up Considerations

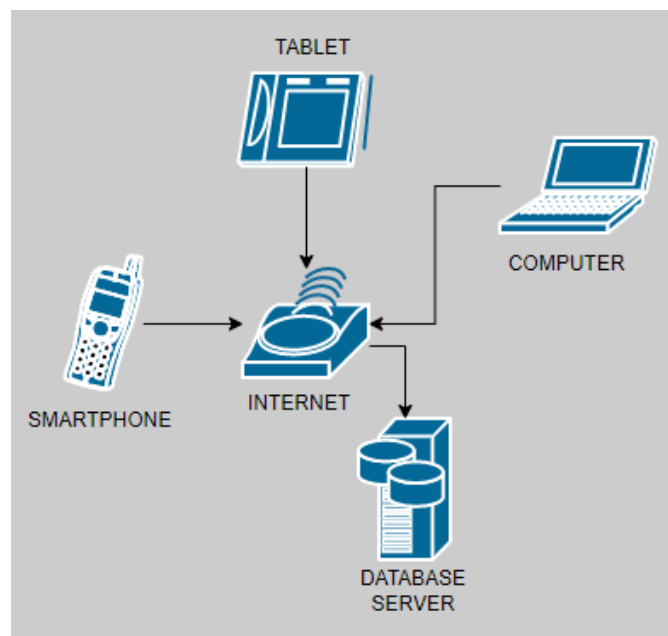
### System Equipment, Communications, and Network Configuration

#### 1. Brief Description

The SwappyMate app is a mobile application designed for real-time currency conversion. It operates on a client-server architecture, where the user's mobile device (client) communicates with a centralized server via the internet. The server is responsible for handling user authentication, processing conversion requests, managing favourites and history, and retrieving up-to-date exchange rates through an integrated external currency API.

SwappyMate is compatible with most modern smartphones and tablets running Android or iOS. To function properly, the app requires an active internet connection for real-time data retrieval and account synchronization.

#### 2. Graphical Depiction



Network Configuration of the SwappyMate App

### 3. Computer Input and Output Devices

#### a) Input Devices

- **Touchscreen:** Users interact with the SwappyMate app primarily through the touchscreen interface on smartphones or tablets, enabling actions such as currency selection, amount entry, and menu navigation.

#### b) Output Devices

- **Monitor/Display Screen:** The app's user interface, including conversion results, favourite currencies, and history, is displayed on the mobile device's screen.

### 4. Set-Up Considerations

- **Internet Connectivity**

SwappyMate requires a stable internet connection to fetch real-time exchange rates and sync user preferences, conversion history, and authentication data.

- **Device Compatibility**

The app supports most modern **Android and iOS devices**. Ensure the device meets the minimum OS version and has sufficient storage and memory to run the app smoothly.

- **Installation**

SwappyMate is available through official app stores (e.g., Google Play Store, Apple App Store). Installation involves downloading the app and following standard on-screen installation instructions.

- **User Accounts**

To access SwappyMate's core features, users must register or log in with an existing account. It is recommended that credentials are stored securely, and users do not share login details with others.

## 2.3 User Access Considerations

### General Users

- **Description:** General users are individuals who use the SwappyMate app to perform currency conversions, manage their favourites, and view their conversion history. These users are required to register and log in to access all core features.
  
- **Access Restrictions:**
  - a. Convert Currency:**  
Can perform real-time conversions between supported currency pairs.
  
  - b. View Conversion History:**  
Can access and review their own conversion history, including past results.
  
  - c. Manage Favourites:**  
Can add, remove, and access their favourite currency pairs for quick use.
  
  - d. Edit Account Details:**  
Can update their own email address and username from the profile settings.
  
  - e. Change Password:**  
Can securely change their account password at any time.
  
  - f. No Access to Other Users' Data:**  
Cannot view, edit, or access any information or history related to other users.

## 2.4 Accessing the System

### Accessing the SwappyMate App

#### 1. Accessing the System

##### Downloadable App

- Visit the SwappyMate app download page.
- Download and install the app on your mobile device (Android or iOS).
- Follow the installation prompts specific to your device.
- Once installed, open the app from your home screen or app drawer.

#### 2. Getting a User ID

##### Registration Process

- Open the SwappyMate app on your mobile device.
- Tap on the "Create Account" button on the main screen.
- Fill out the registration form with your email, username, and password.
- Tap "Register" to create your account.
- If registration is successful, a confirmation message will appear.
- You will then be redirected to the Home screen of the app.

### 3. Logging On

#### Log On Procedure

- Launch the SwappyMate app.
- Tap on the "Log In" button on the main screen.
- Enter your registered email,username and password.
- Tap "Login" to access your account.
- If your credentials are valid, you will be taken directly to the Home screen.

## 2.5 System Organization & Navigation

### Organization and Navigation of the Spookuiz App

#### 1. Home Page

The home page of the SwappyMate app serves as the main dashboard, giving users quick access to the core features of the app. It includes a header, a welcome message, and clearly displayed navigation buttons.

- Header: Displays the app name and page name.
- Main Content Area: Shows key features such as the Currency Converter, View Recent Conversions, Setting and About.

#### 2. Currency Conversions

This is the core feature of SwappyMate, allowing users to convert amounts between different currencies in real time.

- Navigation Path: Automatically displayed on the home screen upon login.
- Main Sections:
  - Amount Input: Field to enter the amount to convert.
  - Base and Target Currencies: Dropdown menus to select the currencies.
  - Reverse Button: Reverse selected currencies.
  - Convert Button: Executes the conversion and displays the result.
  - Result Area: Shows the converted amount with the current exchange rate.

### 3. Favourite Currencies

Users can manage their frequently used currency pairs to access them faster in future conversions.

- Navigation Path: Tap the "Favourites" icon or access via the home page.
- Main Sections:
  - Add to Favourite: Button to save a selected currency pair.
  - Favourite List: View and manage saved currencies.
  - Remove Option: Allows users to delete unwanted favourites.

### 4. Conversion History

Displays the list of previous conversions made by the user.

- Navigation Path: Tap on "Recent Conversions" from the home page.
- Main Sections:
  - History List: Shows past converted amounts and currencies.
  - Delete Option: Allows users to remove selected or all history items.

### 5. Conversion History

Users can access profile management features such as editing their email/username and changing their password.

- Navigation Path: Tap the settings icon in the header or side menu.
- Main Sections:
  - Edit Profile: Change email and username.
  - Change Password: Update the current password securely.



## 2.6 Exiting the System

### Exiting the SwappyMate App

#### 1. Logging Out

Logging out securely closes your session, helping protect your account from unauthorized access.

Follow

the steps below to log out of the SwappyMate app:

- Locate the Logout Option
  - Open the main menu by tapping the right top menu icon.
  - Select "Log Out" logo from the menu.
- Confirm Logout
  - A confirmation prompt will appear.
  - Tap "Confirm" to proceed with logging out.
- Session Ended
  - After confirmation, the app will return you to the login or welcome screen, indicating a successful logout.

#### 2. Closing the App

To fully exit the SwappyMate app, follow the steps based on your device type:

##### a. Mobile Devices (Android/iOS)

- Press the Home button or swipe up to minimize the app.
- Open the App Switcher (or recent apps view), then swipe the app off-screen to close it completely.

##### b. Additional Considerations

- Save Your Work:

SwappyMate automatically updates preferences and stores recent conversions. However, make sure any edits to account information or favourites are saved before logging out or closing the app.

## 3. Using the System

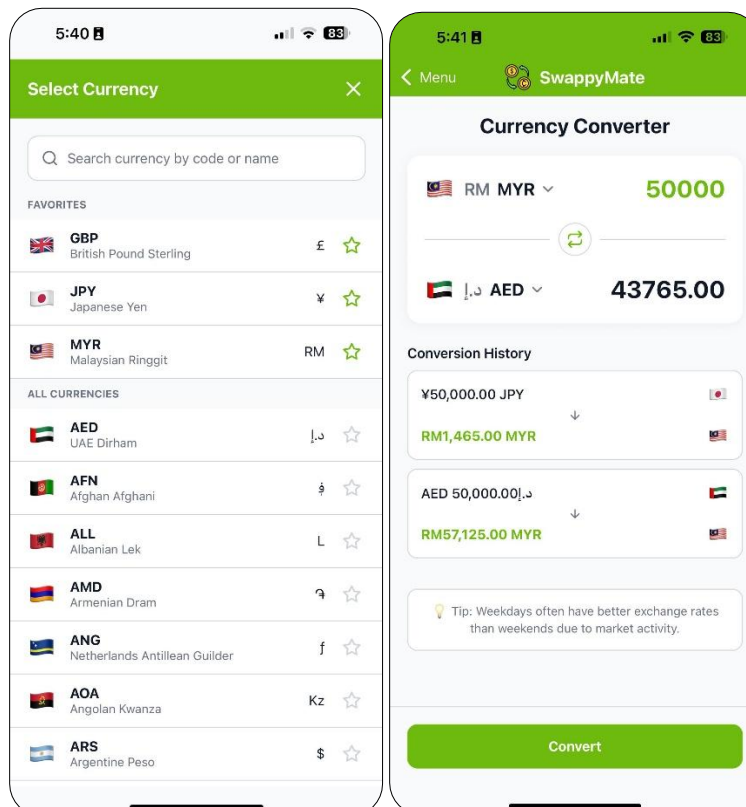
### 3.1 Currency Conversion

#### 3.1.1 Insert amount

The user is required to enter a specific amount they wish to convert from one currency to another. This input serves as the base value for the conversion calculation.

- Users can manually enter any numeric value using the on-screen keypad or their device's keyboard.
- The amount field accepts decimal values to allow for accurate conversions (e.g., 12.50).
- Validation is applied to ensure that only numeric inputs are accepted.

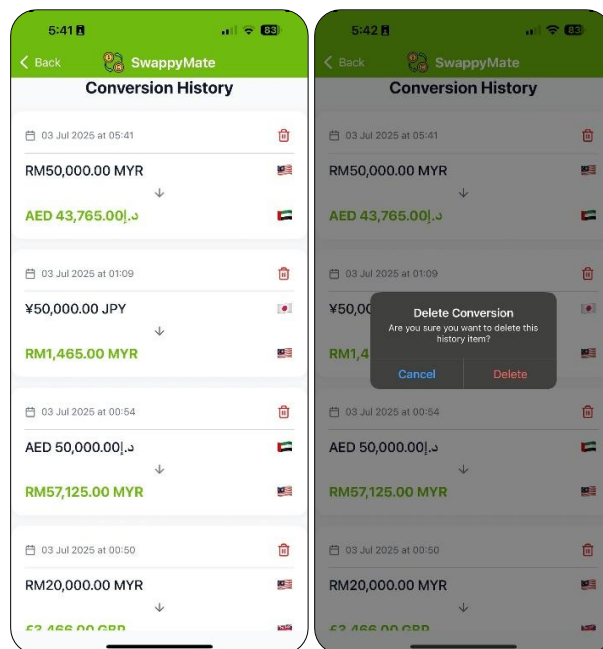
After entering the amount, users can proceed to select the base currency and target currency before tapping the "Convert" button to view the result.



### 3.1.2 View Recent Conversion

The user can access a list of their previously converted currency transactions through the Recent Conversions feature. This allows users to quickly review past conversions without re-entering the same information.

- The history displays the converted amount, selected currencies, and the time or date of conversion.
- Each record is presented in a clear list format, sorted by the most recent conversions.
- Users can tap on any entry to view more details or re-use the same currencies and amount for a new conversion.
- The system stores history locally or linked to the user's account to maintain consistency across sessions.
- Additionally, users have the option to delete individual entries or clear all history, helping them manage their data as needed.



### 3.1.3 Account Settings

The Account Settings section allows users to manage and update their personal account information securely. This includes editing profile details and changing their password.

#### Edit Profile Information

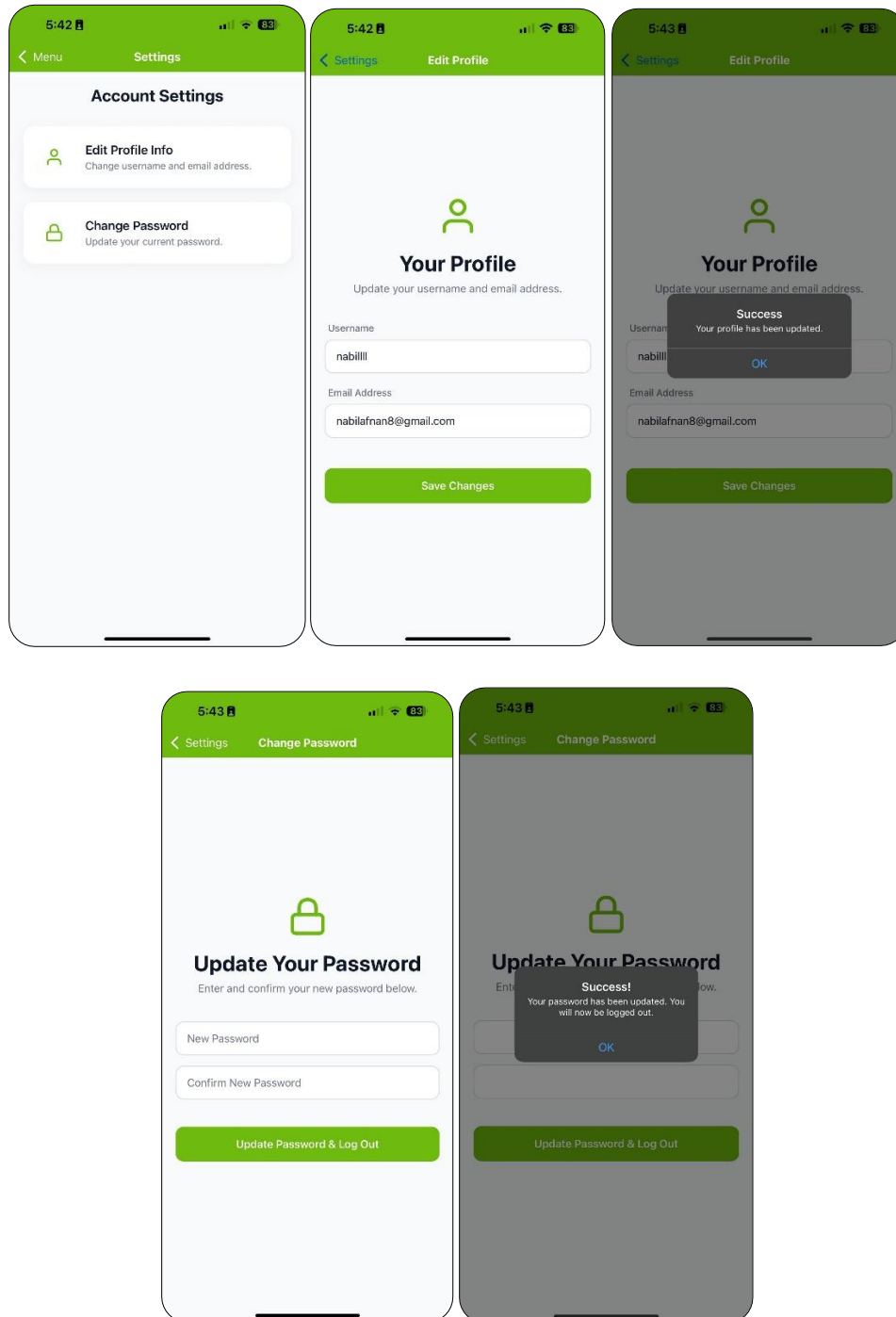
Users can update their email address and username from the profile settings screen.

- Accessed through the Settings or Profile menu.
- The current email and username will be displayed in editable fields.
- After making changes, users must tap the "Save" or "Update" button to apply the modifications.
- A confirmation message will appear once the profile is successfully updated.

#### Change Password

Users can change their account password to maintain privacy and security.

- Accessed from the Account Settings page.
- The user must enter their new password and confirm password.
- Once submitted, a success message will confirm that the password has been changed.
- The user will then be required to log in again with the new password to continue using the app.



## 4. Troubleshooting & Support

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### 4.1 Error Messages

#### Common Error Conditions and Corrective Actions

##### 1. Login Errors

Error: *"Invalid Username or Password"*

What it means: Your login details are wrong.

What to do:

- Check your username and password.
- Make sure Caps Lock is off.
- Use "Forgot Password" to reset if needed.

##### 2. Network Problems

Error: *"Network Connection Lost"*

What it means: The app can't connect to the internet.

What to do:

- Check your Wi-Fi or mobile data.
- Try turning your internet off and on.
- Reopen the app once the connection is back.

##### 3. Conversion Error

Error: *"Conversion Failed or Not Available"*

What it means: The app couldn't get the latest exchange rate.

What to do:

- Try again later.
- Check if your internet is stable.
- If it keeps happening, contact support.

#### 4. Invalid Input

Error: *"Invalid Amount or Format"*

What it means: You may have typed something wrong (e.g., letters instead of numbers).

What to do:

- Enter only valid numbers (e.g., 12.50).
- Double-check your input and try again.

### **System Recovery Procedures**

#### 1. Restart the App

If something isn't working:

- Close the app completely.
- Reopen it and log in again.

#### 2. Reboot Your Device

If the app freezes or crashes:

- Save your work.
- Restart your phone or tablet.
- Open the app again.

#### 3. Backups

SwappyMate automatically saves your account data. If there's a problem with your history or favourites:

- Log out and back in to refresh your data.
- Contact support if your data doesn't appear.

## 4.2 Special Considerations

### 1. Special Circumstances

#### 1.1 Limited Internet Access

Issue: Users may be in areas with weak or no internet connection.

What to do:

- Recommend using the app in areas with stable internet.
- Notify users that real-time currency data requires internet.

Note: Without internet, currency conversion and syncing history or favourites won't work.

#### 1.2 Device-Specific Issues

Issue: Some features may behave differently depending on device type or OS version.

What to do:

- Ask users to clear cache or update their operating system.
- Suggest switching to another device if problems persist.

Note: Older phones or outdated OS versions may not be fully supported.

### 2. Actions

#### 2.1 Reinstalling the App

When to do this: If basic fixes don't solve the issue.

Steps:

- Uninstall SwappyMate from your device.
- Restart your device.
- Download and install the latest version from the app store.
- Log in again.

Reminder: Make sure your data (like favourites or account info) is backed up before reinstalling.



## 3. Caveats

### 3.1 Sync Delays

Issue: Some changes (like profile edits or new favourites) might take time to show.

Advice:

- Try refreshing the app or logging out and back in.
- Wait a few minutes before checking again.

### 3.2 Scheduled Maintenance

Issue: The app may be temporarily unavailable during updates.

Advice:

- Users will be notified in advance for planned maintenance.
- Finish any activity or save changes before the maintenance starts.

## 4. Exceptions

### 4.1 Account-Specific Problems

Issue: A problem affects only one user's account.

Action:

- Contact support with your email, username, and a description of the issue.
- The support team may help reset or fix your account.

### 4.2 Regional Limitations

Issue: Some features may be restricted in certain countries.

Action:

- Inform users if their region has restrictions.
- VPN use may be suggested, but must comply with local laws.

## 5. Support Reporting Procedures

### 5.1 Reporting an Issue

If you experience an issue with the SwappyMate app:

1. **Describe the Problem** – Write down what went wrong and any error messages.
2. **Gather Info** – Note your device type, OS version, and account details.
3. **Contact Support** – Use the help/support feature in the app or email the support team.
4. **Submit Details** – Include screenshots or error descriptions to help them solve the issue quickly.

### 5.2 Security Issues

If you believe your account or data is at risk:

- **Disconnect** – Turn off your internet if necessary.
- **Report Immediately** – Contact SwappyMate's security team or support.
- **Share Info** – Explain what happened and what actions you took.
- **Follow Up** – Do what the support team instructs to secure your account.

Table 1 - Support Points of Contact

Contact	Phone	Email	Role	Responsibility
Muhammad Nabil Afnan Bin Mohamad Sabri	012-4073536	nabilafnan8@gmail.com	Developer	Responsible for development, maintenance, and user support for SwappyMate App.

## Appendix A: Record of Changes

Table 2 - Record of Changes

Version Number	Date	Author/Owner	Description of Change
1.0	May 10th 2025	Muhammad Nabil Afnan Bin Mohamad Sabri	Initial release with basic currency conversion functionality.
1.1	June 1st 2025	Muhammad Nabil Afnan Bin Mohamad Sabri	Added user registration and login features.
1.2	June 12th 2025	Muhammad Nabil Afnan Bin Mohamad Sabri	Added account settings (edit email/username, change password).
1.3	June 18 <sup>th</sup> 2025	Muhammad Nabil Afnan Bin Mohamad Sabri	Introduced favourites and recent conversion history section.
1.4	June 20th 2025	Muhammad Nabil Afnan Bin Mohamad Sabri	Enhanced UI and added forgot password and delete history options.

## Appendix B: Glossary

Table 3 - Glossary

Term	Acronym	Definition
Caveat	Caveat	A warning or notice to be aware of potential limitations or conditions that may affect usage.
Currency Conversion	-	The process of exchanging one form of currency for another based on current exchange rates.
Favourite Currencies	-	A feature allowing users to save frequently used currency pairs for faster access during conversions.
Real-Time Rate	-	The most current exchange rate available at the time of conversion, usually retrieved from an external API.
API	API	Application Programming Interface – a set of functions that allow apps to access data or features from external services, like currency rates.
Sync	-	Short for "synchronize" – the process of ensuring data is updated and consistent across different devices or sessions.
User Credentials	-	The email, username, and password used by a user to access their account securely.
Log Out	-	The action of securely ending a user session to prevent unauthorized access.

