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## *ṬseaAfrika Android App*

### *Project Overview*

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ṬseaAfrika is an Android mobile application designed to help users plan and enjoy indigenous African meals. The app provides a platform where users can register, log in, manage settings, and plan meals using authentic recipes from different African cultures.

This prototype demonstrates the core functionality of user authentication, settings management, and REST API integration. The final version will extend these features and provide enhanced user interactions with the backend database and additional meal-planning features.

### **Features Implemented in the Prototype**

**User Registration & Login:** Utilizes Single Sign-On (SSO) for easy authentication.

**Settings Management:** Allows users to update and save their preferences within the app.

**REST API Integration:** The app connects to a custom REST API to retrieve and store user data in a remote database.

**Error Handling:** Validation for incorrect user input and robust error messages prevent the app from crashing.

### **Technology Stack**

**Language:** Kotlin

**External Libraries:** Retrofit for REST API calls, Gson for JSON parsing, Firebase Authentication (for SSO), and Firebase Realtime Database.

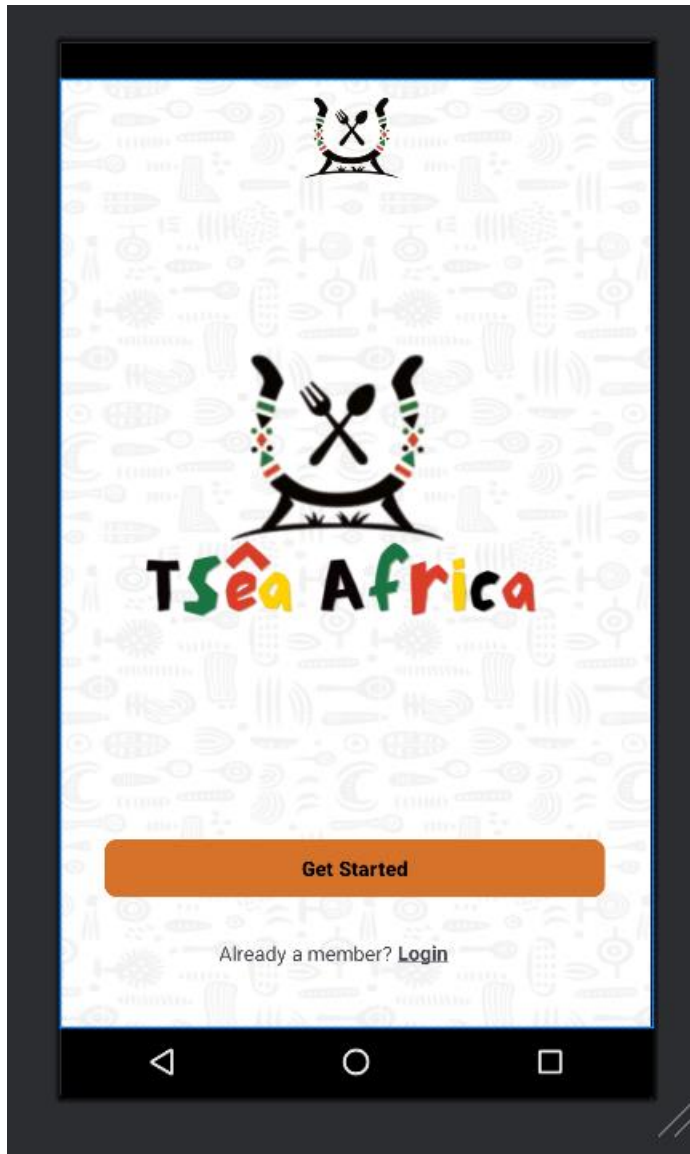
**REST API:** Custom-built API hosted on [hosting service name] connected to a database.

### **Installation and Setup**

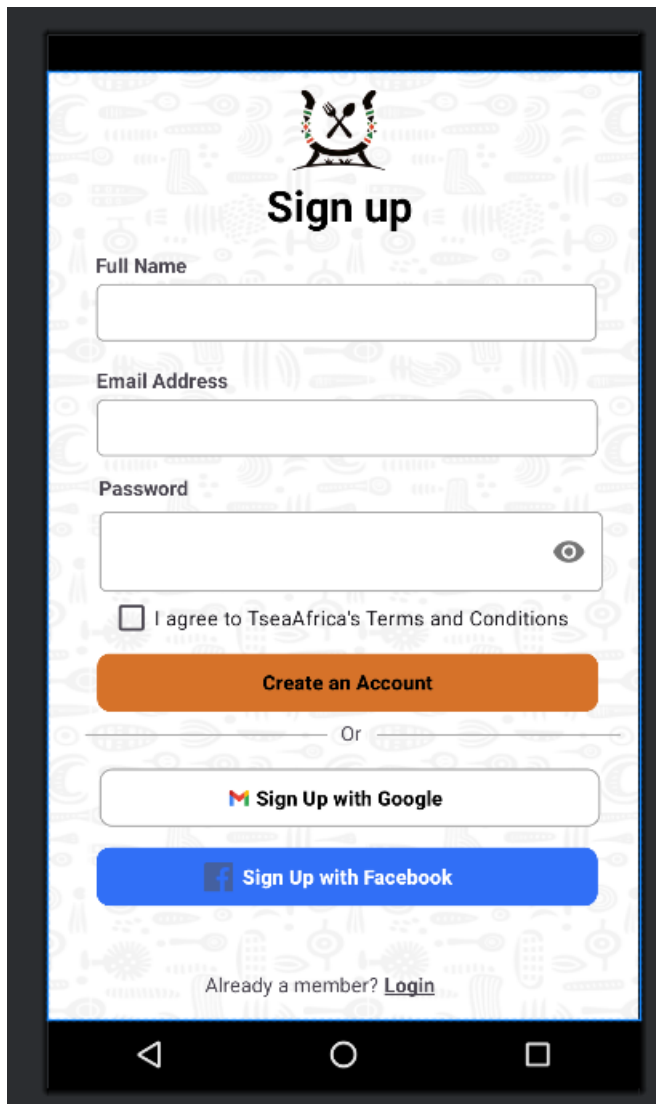
1. Clone the repository:
2. Open the project in Android Studio.
3. Ensure you have the appropriate SDK and tools installed.
4. Update the local.properties file with your SDK path:
5. Build and run the app on your emulator or connected device.

## How to Use

1. The welcome page will pop up with a get started button. Click the get started button.



2. After you click the get started button you will be taken to the registration page where you can register, click login if you already have an account



The image shows a mobile application registration screen. At the top, there is a logo featuring a stylized 'X' with a fork and a spoon, flanked by two small figures, all within a circular frame. Below the logo, the text 'Sign up' is displayed in a bold, black font. The registration form consists of three input fields: 'Full Name', 'Email Address', and 'Password'. The 'Password' field includes a toggle icon (an eye) to show or hide the password. Below these fields is a checkbox labeled 'I agree to TseaAfrica's Terms and Conditions'. A prominent orange button labeled 'Create an Account' is positioned below the checkbox. Underneath this button is a horizontal line with the word 'Or' in the center. Below the line are two buttons: a white button with a Google logo and the text 'Sign Up with Google', and a blue button with a Facebook logo and the text 'Sign Up with Facebook'. At the bottom of the form, the text 'Already a member? [Login](#)' is displayed. The entire form is set against a light blue background with a subtle pattern of various icons. The screen is framed by a black border, and the bottom of the screen shows the standard Android navigation bar with back, home, and recent apps buttons.

**Sign up**

Full Name


Email Address


Password

☐ I agree to TseaAfrica's Terms and Conditions

**Create an Account**

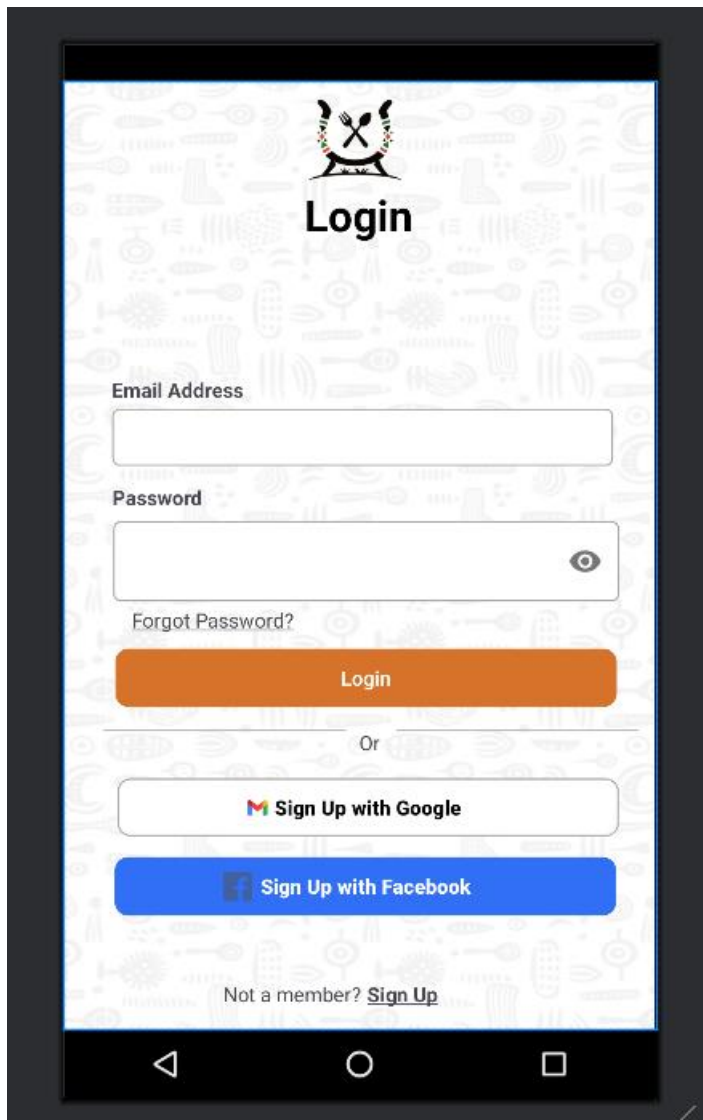
Or

 **Sign Up with Google**

 **Sign Up with Facebook**

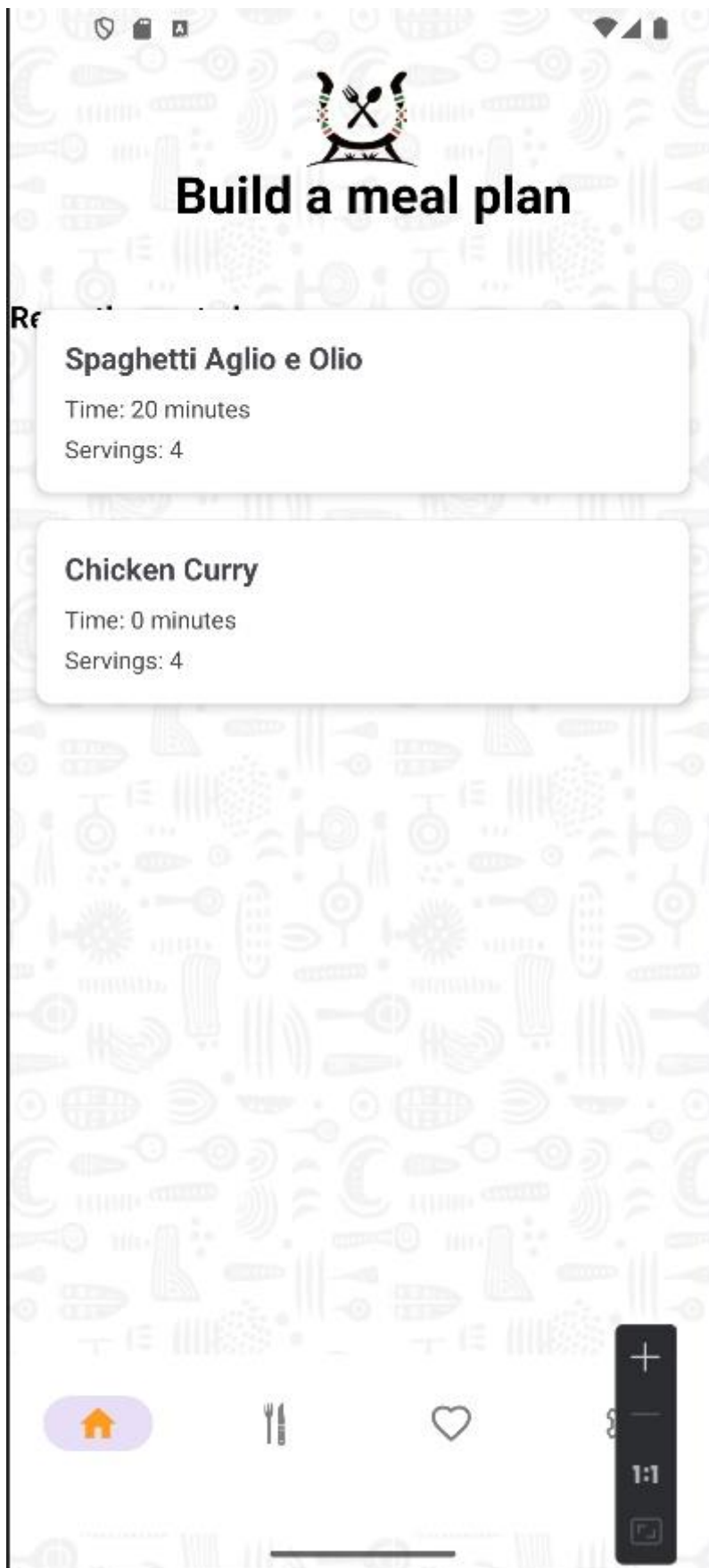
Already a member? [Login](#)

3. On the registration page the user will have the option to login or register with google, Facebook or using their personal information.



4. After filling in your information click the register or login button to have access to the TseaAfrica app

5. Upon clicking the register or login, you will be directed to our home page with our recently added recipes, our navigation bar that takes the user back to the home page, add recipe page, favorites page and the settings page.



6. You can browse our public recently added recipes and click on our heart button on the recipes to add them to favorites but if you wish to add a new recipe click the add recipe button which is the second button from the left on the navigation bar



# Chicken Curry



0 minutes

4 servings

Cookware

Ingredients

Instructions

400.0 grams of Pasta

100.0 ml of Olive oil

4.0 cloves of Garlic

1.0 teaspoon of Red chili flakes

2.0 tablespoons of parsley

500.0 grams of Boneless chicken thighs

1.0 medium of Onion

2.0 cloves of Garlic



1:1



7. Once you have clicked the add recipes button, you will be prompted to add the ingredient name, total minutes and more. At the bottom of the page you have the option to make the recipe public or private by clicking the checkbox.

←  ☐ Public

**Recipe Name:**





**Total Minutes:**

**Total Servings:**

**Cookware:**

**Ingredients:**

**Instructions:**

8. After you have added the recipe, you can click the home button which will take you to the home page where you could see your added recipe with the recently added recipes, if you chose private you will still see the recipe, but other users cannot.

9. Click the settings page to adjust the users goals, preferences and recipes.