TŝeaAfrika Android App

Project Overview

TŝeaAfrika 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.
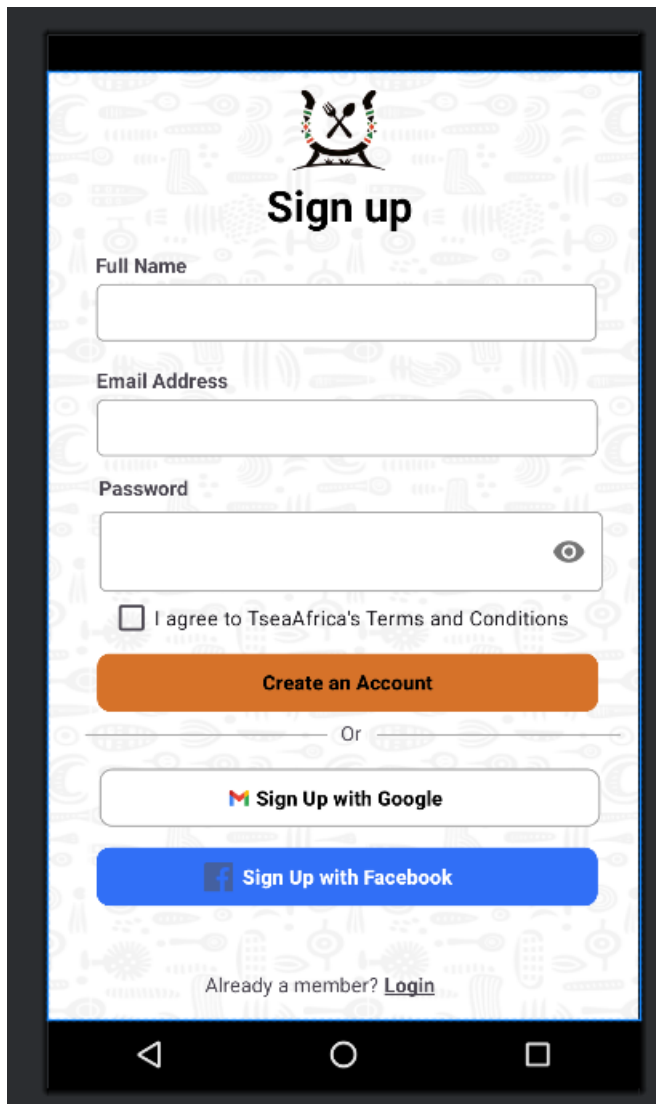
Installation and Setup

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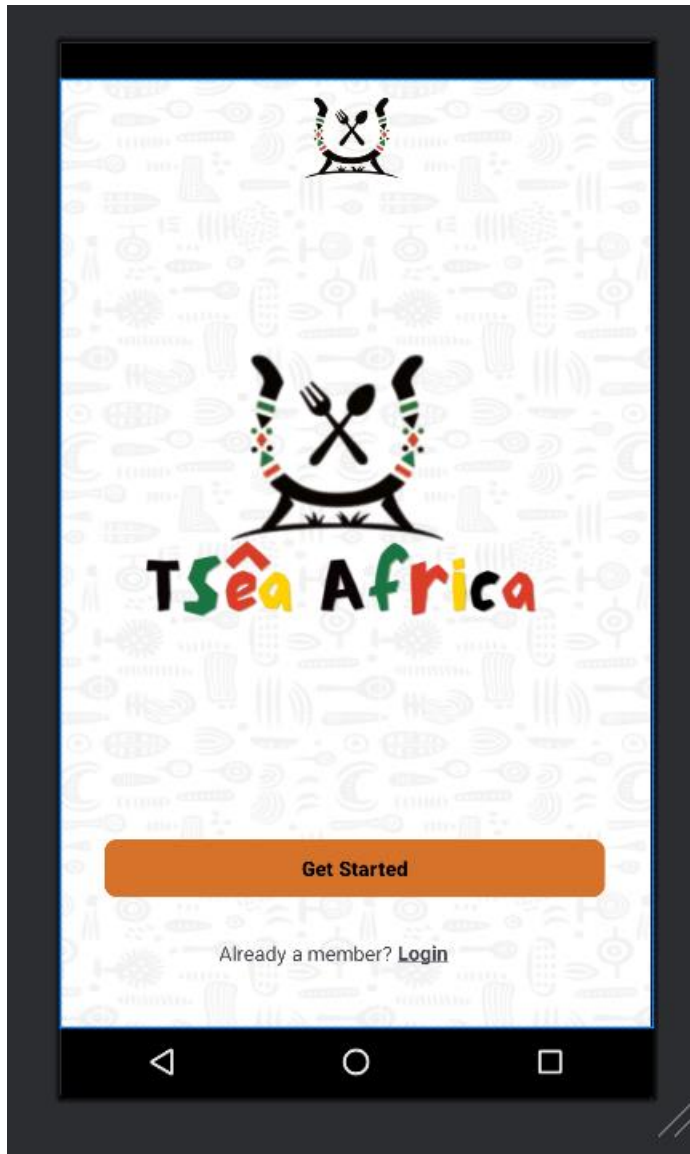
2. After you click the get started button you will be taken to the registration page where you can register, click login if you already have an account

3. On the registration page the user will have the option to login or register with google, Facebook or using their personal information.
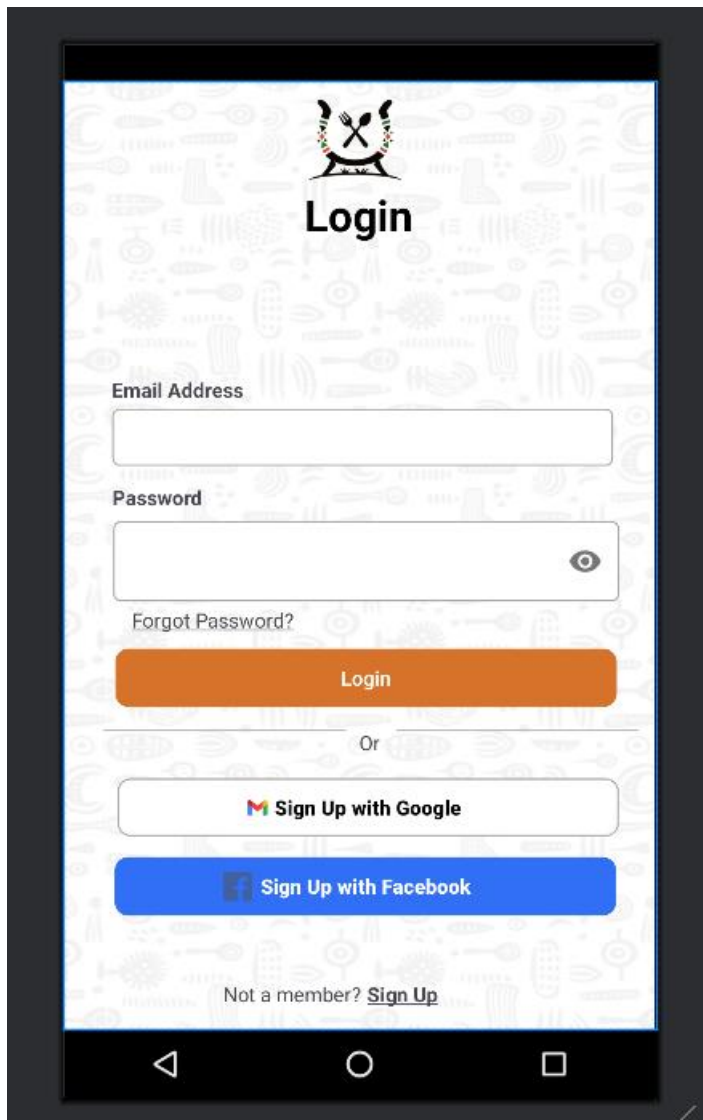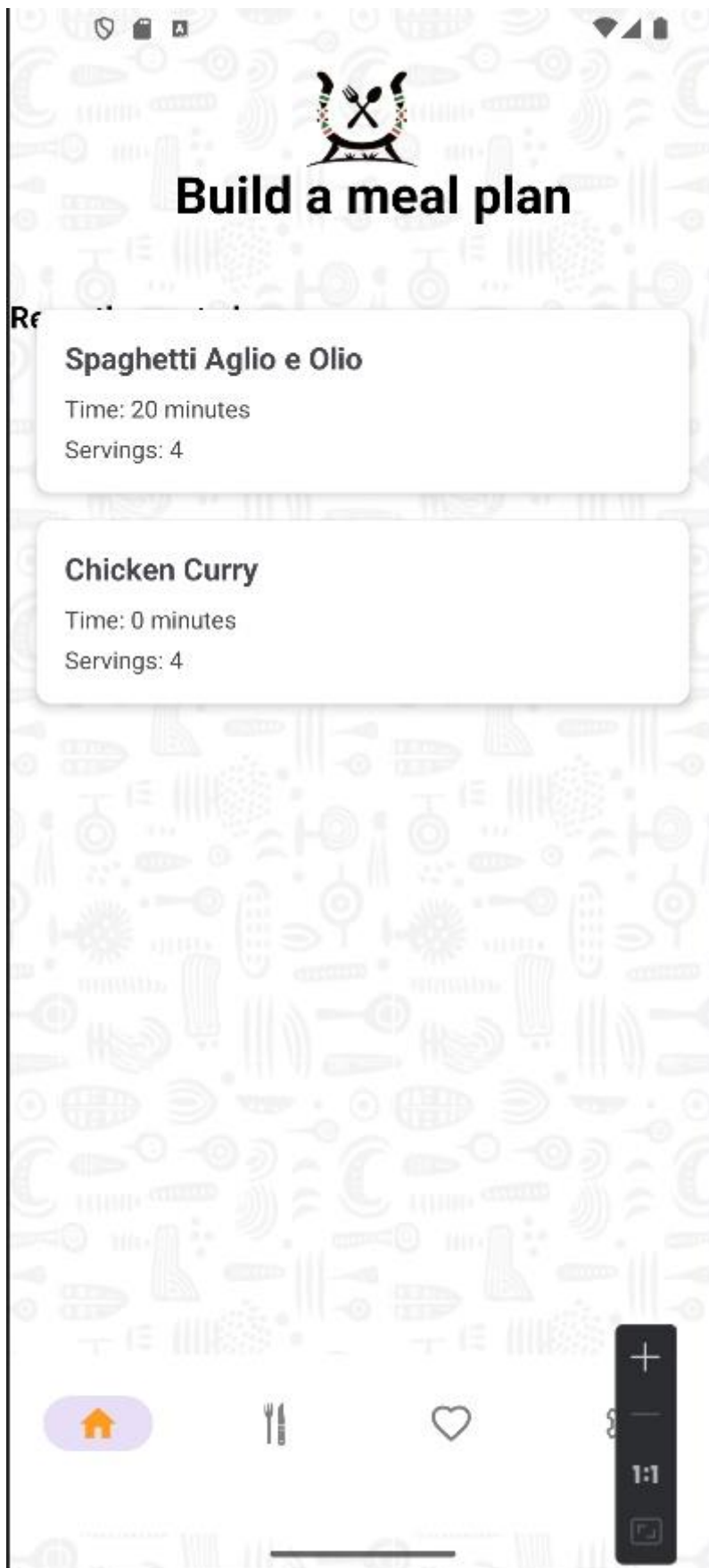
4. After filling in your information click the register or login button to have access to the TseaAfrica app

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.

Build a meal plan

R...

Spaghetti Aglio e Olio

Time: 20 minutes

Servings: 4

Chicken Curry

Time: 0 minutes

Servings: 4

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

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.

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.