Fedup

saving your food from the bin

Fedup Food Inventory ReadMe

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Introduction

FedUp is a mobile application designed to help users manage their food inventory effectively, reduce food waste, and explore recipes based on available ingredients. The app provides an intuitive interface for logging in, managing ingredients, and discovering new recipes.

Features

- **User Authentication**: Register or log in using your Google account.

- **Inventory Management**: Add, edit, or delete ingredients with details such as name, category, expiration date, quantity, and optional notes.

- **Sorting Options**: Sort ingredients by category (Uncategorized, Fridge, Freezer, Pantry), expiration date, and alphabetical order.

- **Recipe Functionality**: Search for recipes based on available ingredients.

- **Settings Management**: Customize user settings, including username, theme, data sharing preferences, password changes, log out, help, contact support, and clear cache.

Getting Started

To get started with the FedUp Food Waste App, follow these steps:

1. **Clone the Repository**:

https://github.com/7TrentF/FedUP_Repo.git

cd fedup-food-waste-app

2. **Open in Android Studio**:

   o Launch Android Studio.

   o Select **Open an existing Android Studio project**.

   o Navigate to the cloned repository and open it.

3. **Build and Run the App**:

- o Ensure your Android device or emulator is set up.

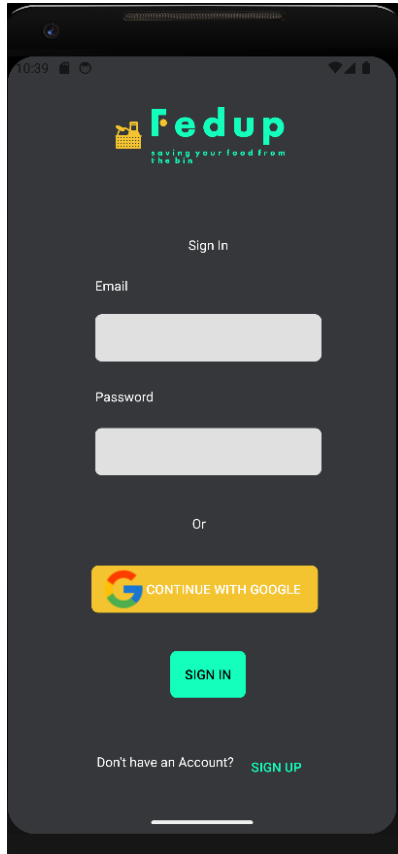- o Click on the **Run** button in Android Studio to build and run the app.
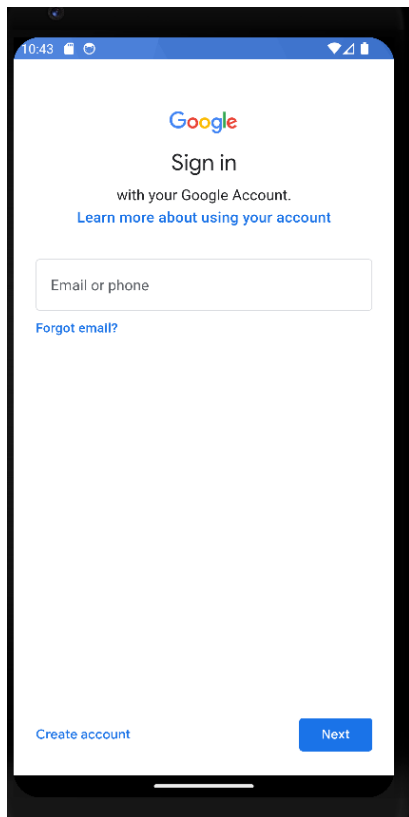
System Requirements

- Android Studio (version 4.1 or higher)

- Android SDK (version 29 or higher)

- Gradle (version 6.5 or higher)

- Java Development Kit (JDK) 8 or higher

- Firebase account
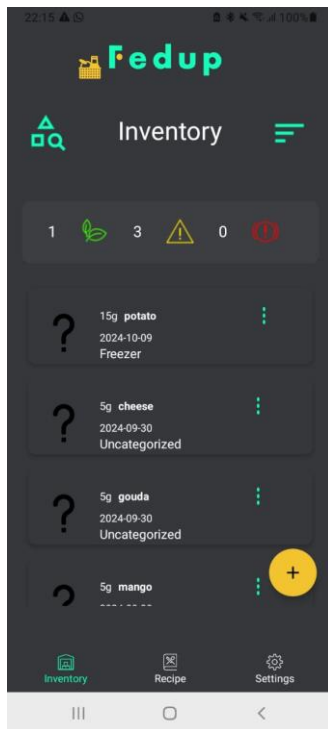
Usage

User Authentication

- Users can register to use the app or log in using their Google account.

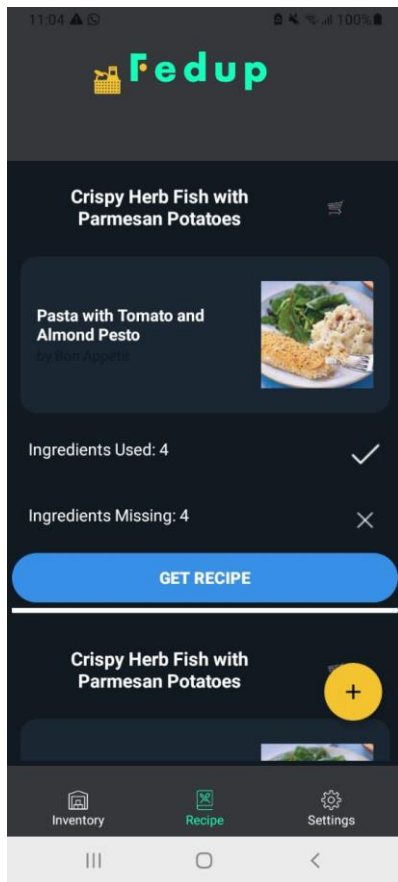- After logging in, users will be directed to the inventory screen.

Inventory Management

- Users can add new ingredients by entering the name, category (Fridge, Freezer, Pantry, or Uncategorized), expiration date, quantity, and optional notes.

- Ingredients can be edited or deleted as needed.

- Users can sort the inventory by category, expiration date, and alphabetical order.
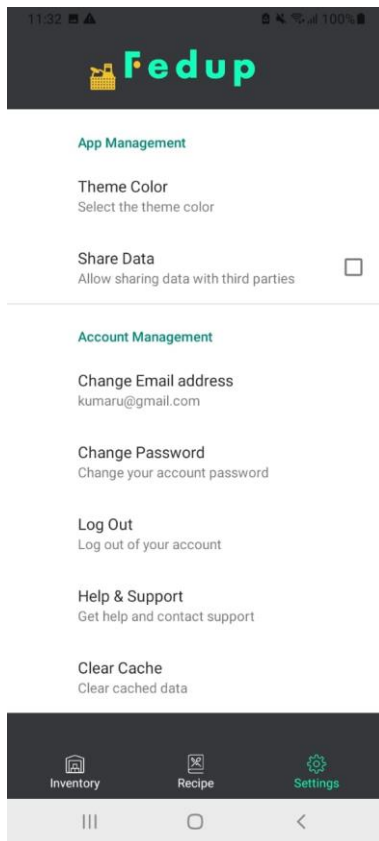
Recipe Functionality

- Users can search for recipes based on the ingredients available in their inventory.

- The app will display a list of recipes along with details and instructions.

Settings

The settings screen allows users to manage the following:

- **Email Address**: Enter a new email address to use.
- **Theme**: Change the app theme.
- **Data Sharing**: Allow or deny the app to share data with third parties.
- **Change Password**: Update the account password.
- **Log Out**: Log out of the application.
- **Help & Support**: Access help resources and contact support.
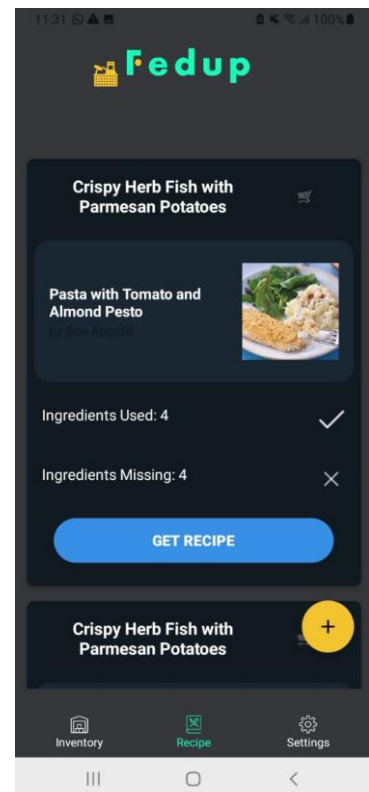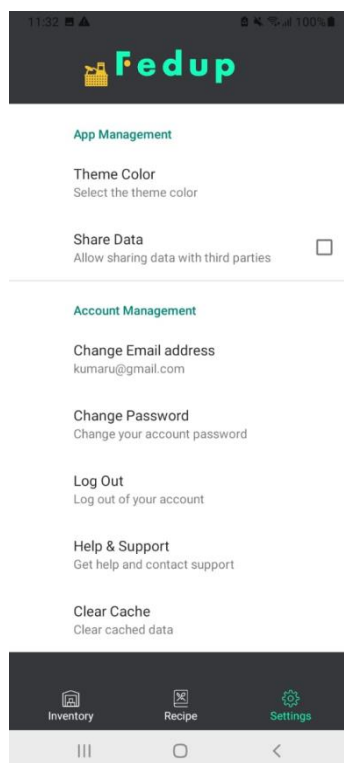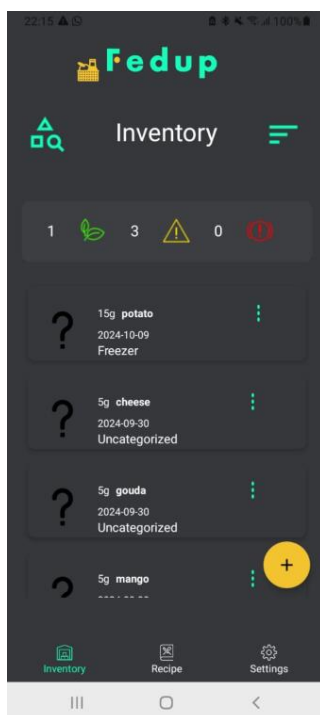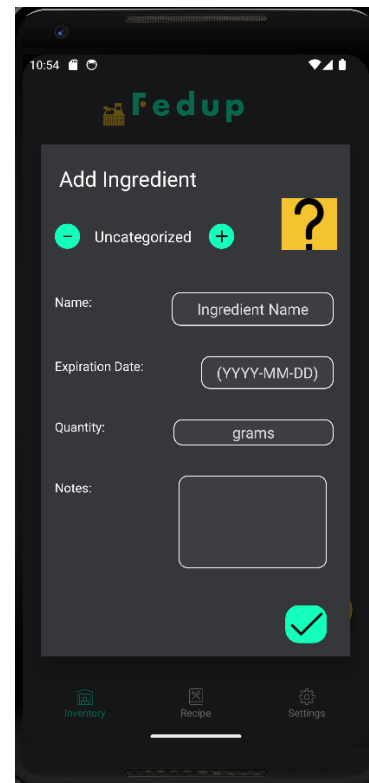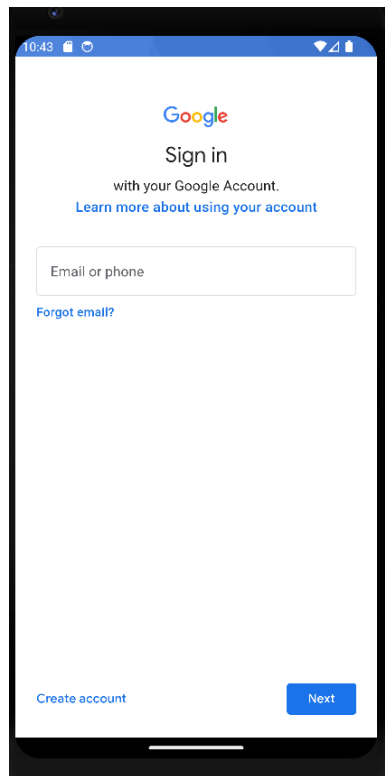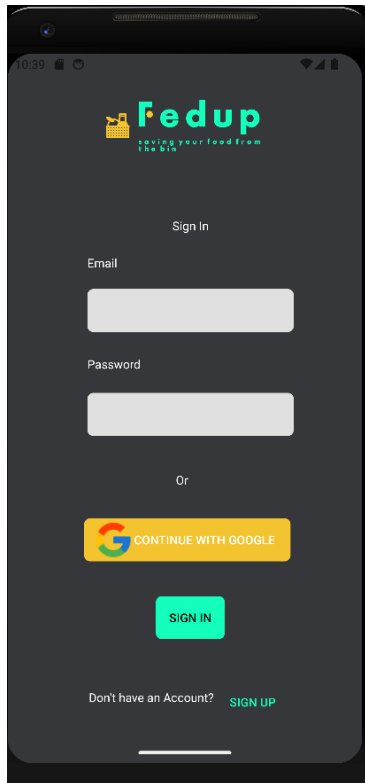- **Clear Cache**: Clear the app cache to free up space.

Automated Testing

The FedUp app uses GitHub Actions for automated testing of CRUD functionality. Each commit triggers a series of tests to ensure the application behaves as expected. Tests cover:

- **Create, Read, Update, Delete** operations for ingredients.

- Validations for user input.

- Integration tests for API calls.

These automated tests help maintain code quality and prevent regressions.

All Screenshots

Video Demonstration

The link to the video demonstration the the usage can be found here:

https://drive.google.com/file/d/1X0EjCra26o9uNT5aGVjIEyi4EpuV_dVx/view?usp=sharing

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Acknowledgments

- Firebase for authentication and real-time database services.

- Recipe - Food - Nutrition API for recipe information.

- REST API tested on Swagger