Spendwise Documentation

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Project: Spendwise [Github]

Welcome to the Spendwise documentation! This application empowers users to effortlessly manage their finances by tracking both income and expenses. It offers a comprehensive summary of all transactions, enabling users to seamlessly monitor and stay on top of their financial activities. Let's dive into the details:

Features

1. Transaction Management

Users can add, edit, and delete transactions, categorizing them as either income or expense.

2. Summary Overview

The app offers a clear and concise summary of all transactions, helping users understand their financial status at a glance.

3. Filtering Options

Users can apply multiple filters to view specific transactions based on categories, dates, or types (income/expense), making it easier to analyze spending patterns.

4. Daily Reminders

The app includes a notification feature that reminds users to add their daily transactions, ensuring that no expense or income is overlooked.

5. User-Friendly Interface

Designed with simplicity and efficiency in mind, the app offers a seamless user experience, making financial tracking easy for everyone.

6. Authentication with Firebase

Secure user authentication using Firebase, supporting multiple sign-in methods to protect user data.

7. Light and Dark Dynamic Theming

Enjoy a visually appealing interface with both light and dark themes that dynamically adjust to user preferences.

8. Efficient CRUD Operations with Realm

Leverages Realm database for fast and reliable Create, Read, Update, and Delete operations on transactions.

9. Unit Testing with Mockito

Ensures code reliability through unit tests using Mockito, maintaining a high standard of app performance and stability.

Prerequisites

Before running the Spendwise app, ensure you have the following installed:

- Flutter SDK
- Dart SDK

Getting Started

To run Spendwise locally:

- Install Flutter:

Refer to the Flutter documentation for installation instructions.

- Clone the Repository:
  Clone the Spendwise repository to your local machine.
- Install Dependencies:
  Navigate to the project directory and run flutter pub get.
- Run the App:
  Connect a device or start an emulator.
- Execute the app using flutter run.

Dependencies

Spendwise relies on several third-party dependencies:

- provider: Simplifies state management by allowing easy access to and updates of state across the
- app.
- realm: Provides local database storage with real-time syncing capabilities, enabling efficient
- data management.
- flutter_local_notifications: Allows scheduling and displaying local notifications on Android and
- iOS.
- firebase_core: Initializes and configures Firebase services in the app.
- firebase_auth: Manages user authentication with various sign-in methods.
- cloud_firestore: A NoSQL cloud database for real-time data storage and syncing.

For a comprehensive list of dependencies, refer to the pubspec.yaml file in the project.

Directory Structure

Spendwise follows a structured layout:

lib/
    |-- data/
        |-- models/ # Contains data models used throughout the application.
        |-- repositories/ # Manages data operations and interfaces with data sources.
    |-- generated/
        |-- (auto-generated files) # Stores auto-generated files. Avoid manual modifications.
    |-- utils/
        |-- configs/ # Configuration settings used across the application.
        |-- core/ # Core functionalities and utilities essential for the app's functionality.
        |-- routes/ # Handles navigation and route management within the app.
    |-- viewModels/
        |-- (ViewModel classes) # Contains ViewModel classes for business logic and state management.
    |-- views/
        |-- (UI components) # Houses the UI components and screens that form the application's interface.
    |-- widgets/
        |-- (custom widgets) # Custom widgets that are reusable across different parts of the application.
main.dart
    |-- (entry point) # The main entry point of the application.

License

Spendwise is distributed under the MIT License. Refer to the LICENSE file for details.

Contact

For any inquiries or feedback regarding Spendwise, feel free to reach out:

Twitter: https://twitter.com/iamSmkz
LinkedIn: https://www.linkedin.com/in/iamsmk
Project: https://github.com/SelvamuthukumaranRajan/SpendWise

Acknowledgements

Spendwise extends its appreciation to the following technologies and resources:

- Flutter
- Provider
- Firebase
- Realm DB

Conclusion

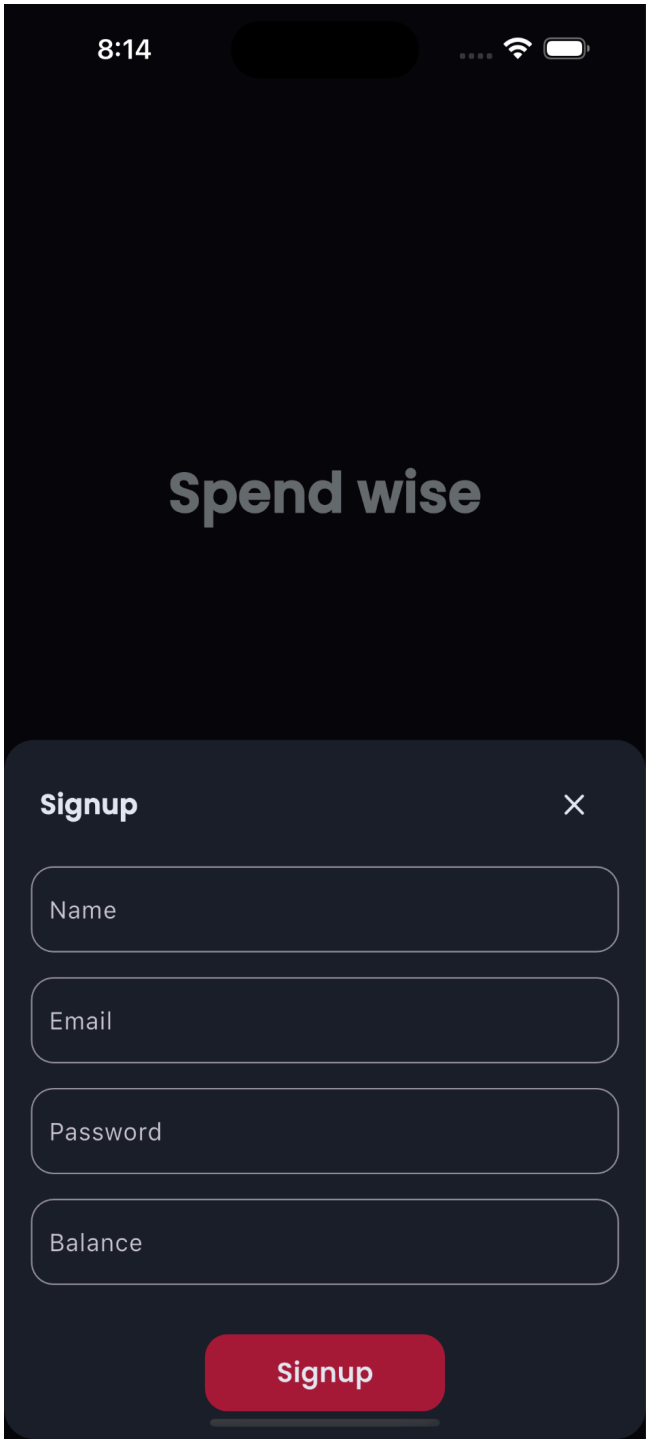
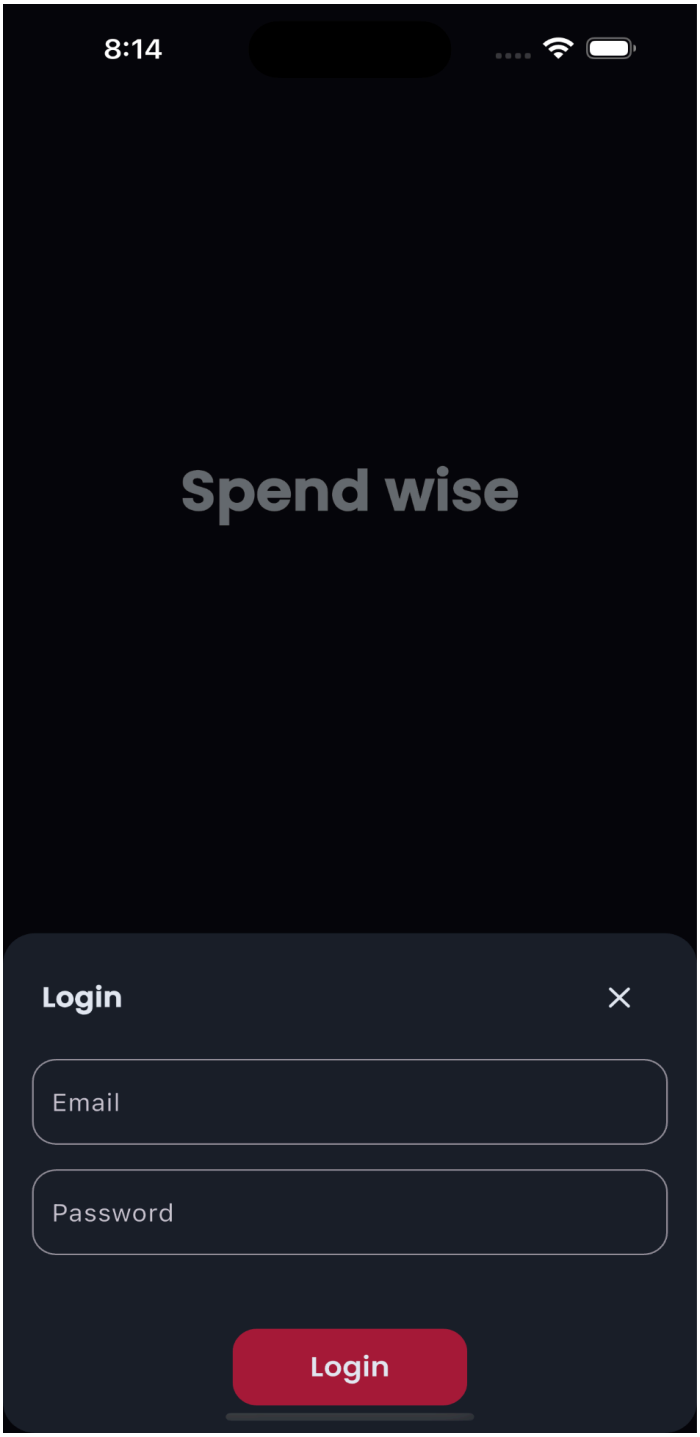
This documentation offers an in-depth overview of the Spendwise app, encompassing its features, architecture, prerequisites, setup instructions, directory structure, licensing, contact information, and acknowledgments. If you have any further questions or need assistance, please don't hesitate to reach out.

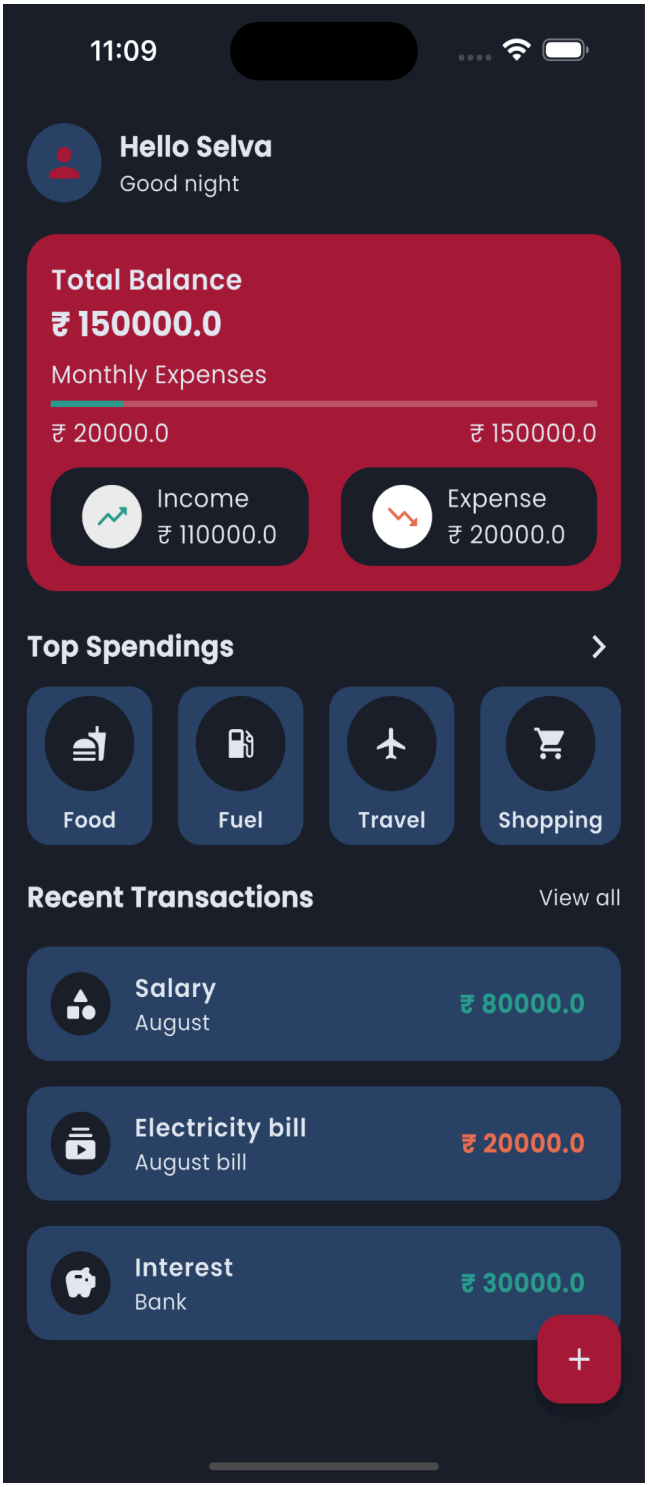
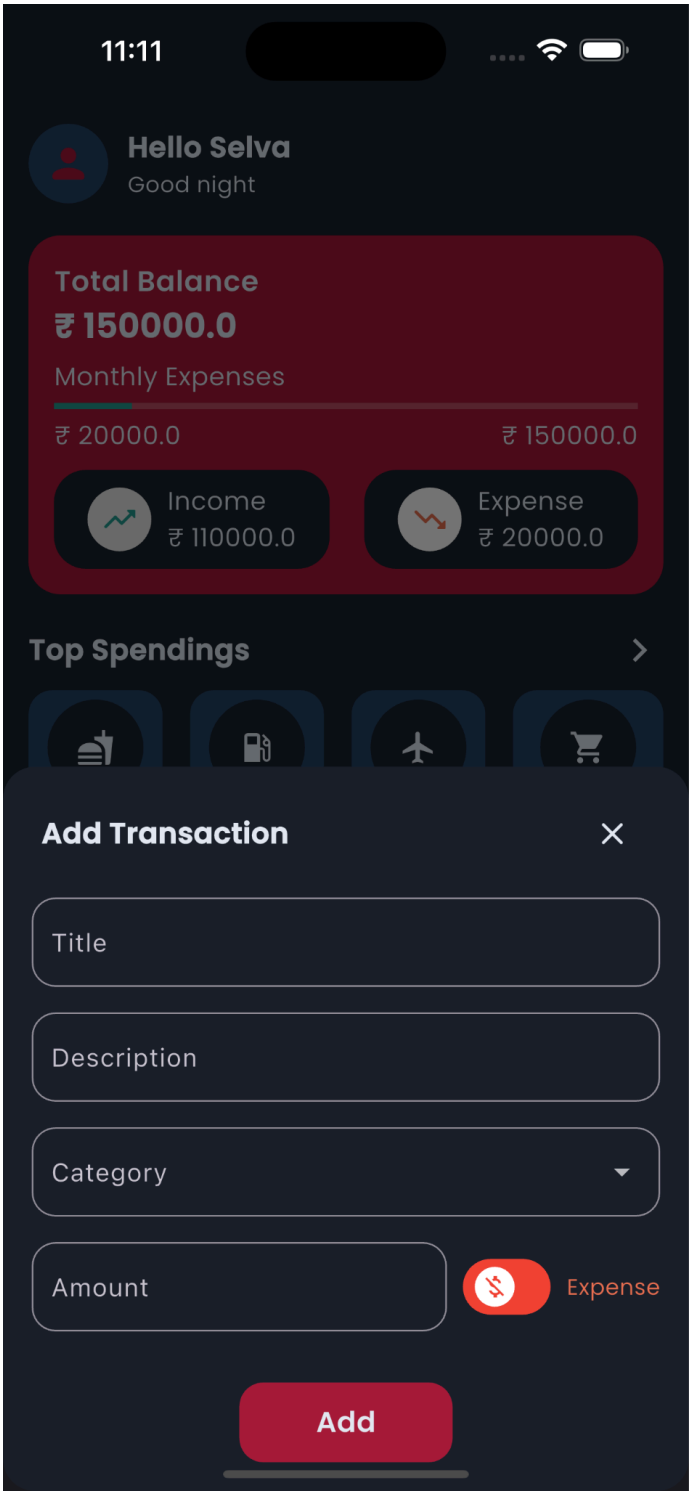
Discover the power of budgeting with Spendwise! Track, save, and thrive! 💸📊

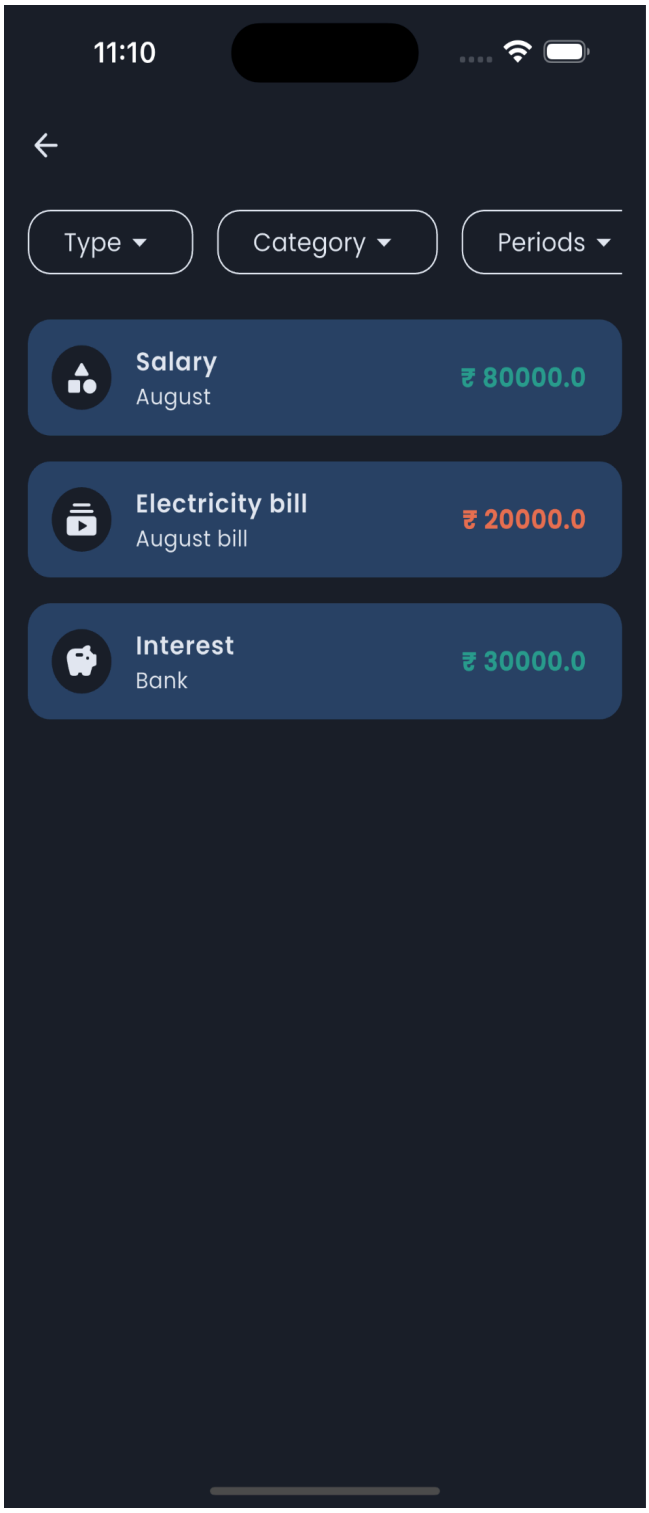
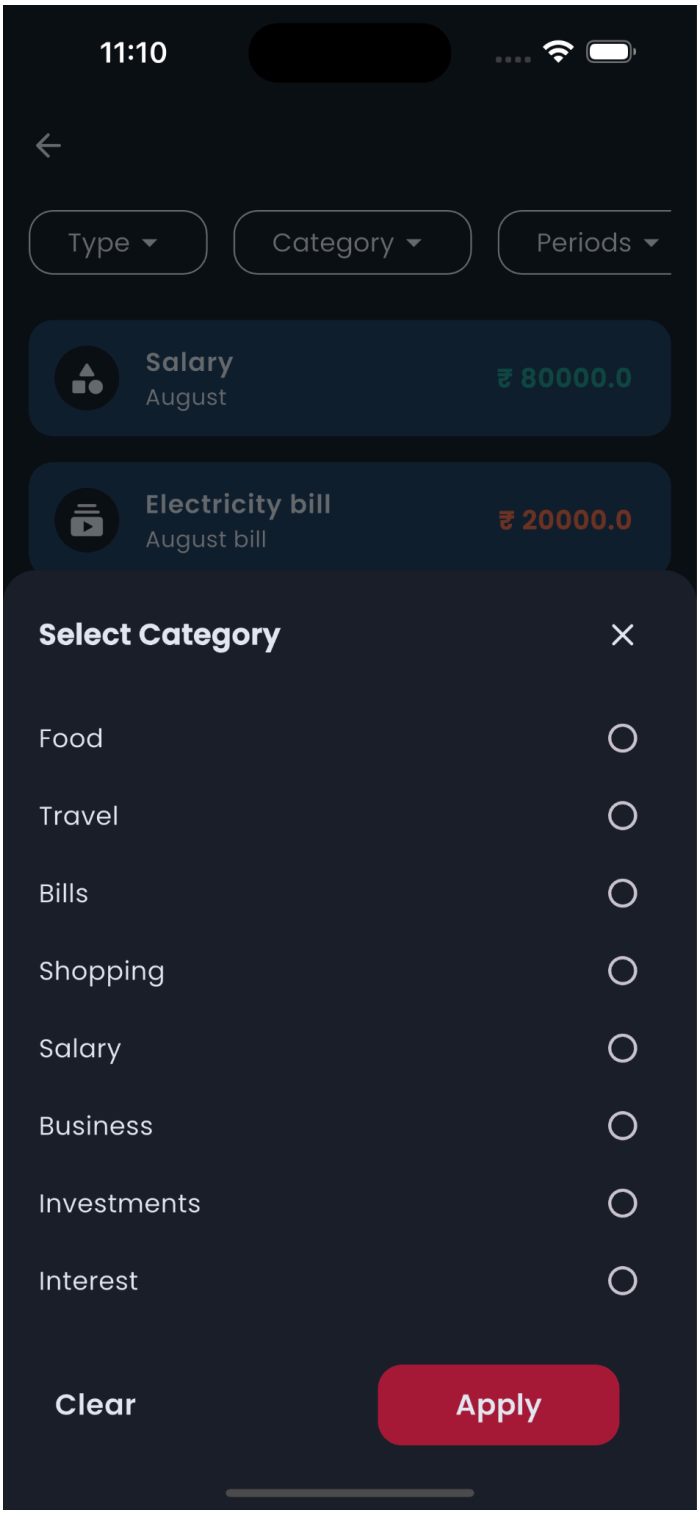
Screenshots

Dark Mode:

Splash Screen	Auth Screen

Signup Screen	SignIn Screen
	

Home Screen	Home Screen
	

Summary Screen	Summary Screen
	

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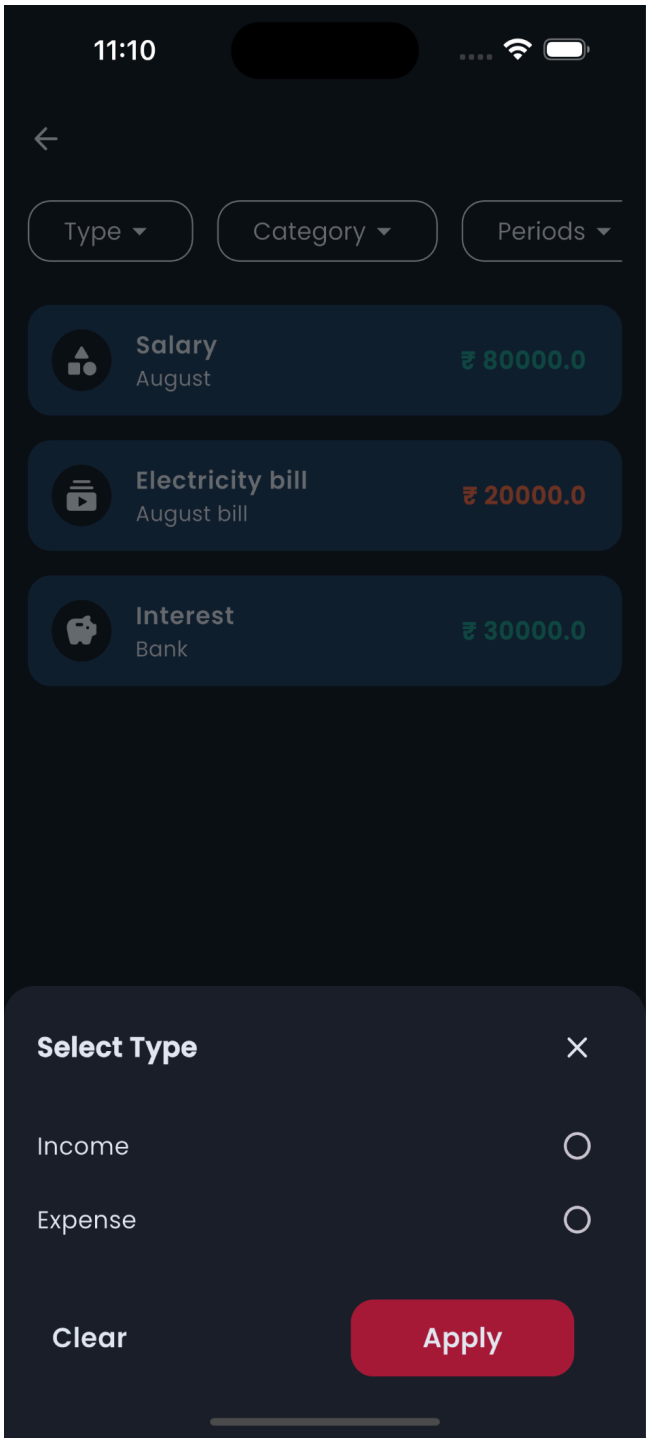	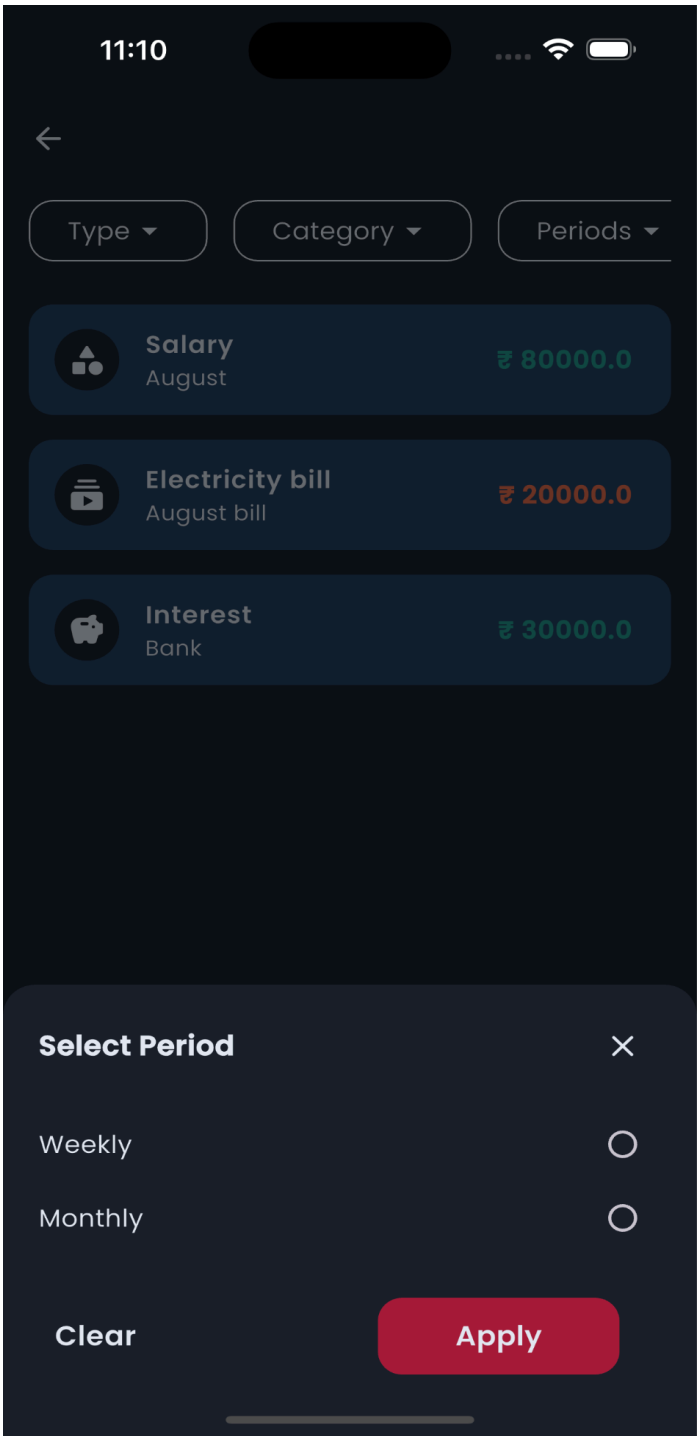

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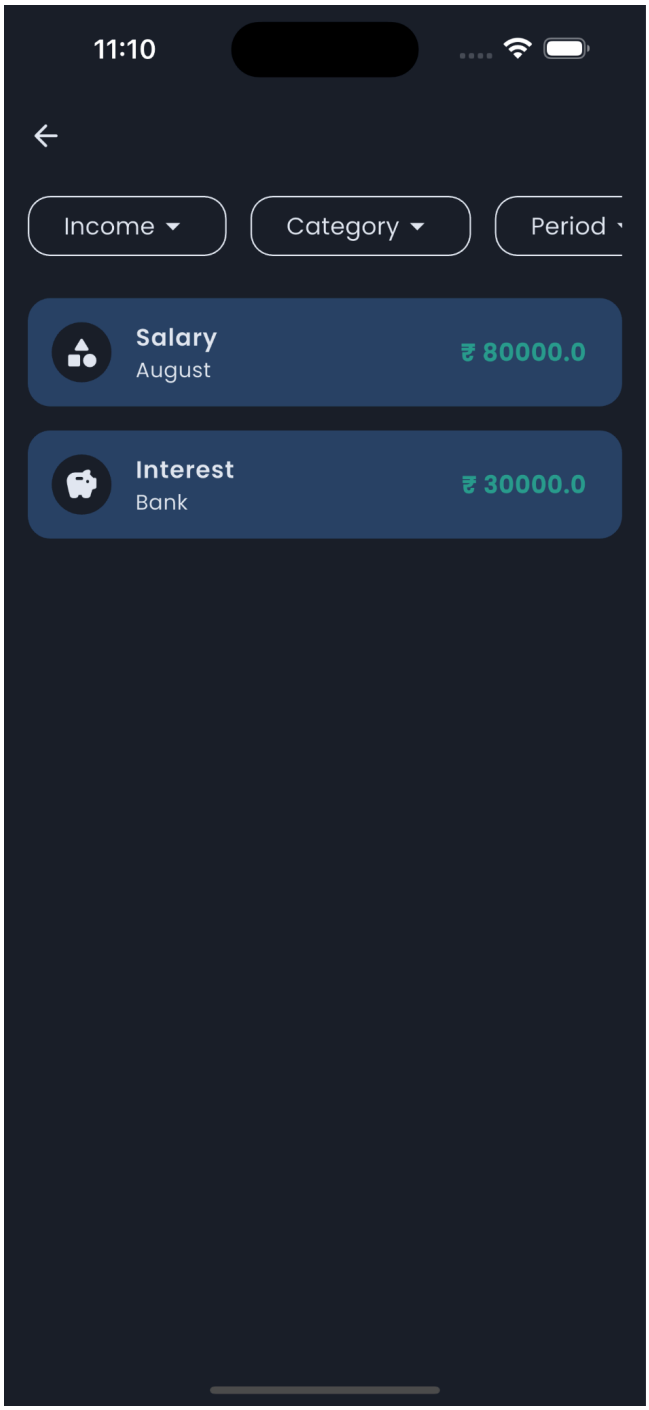	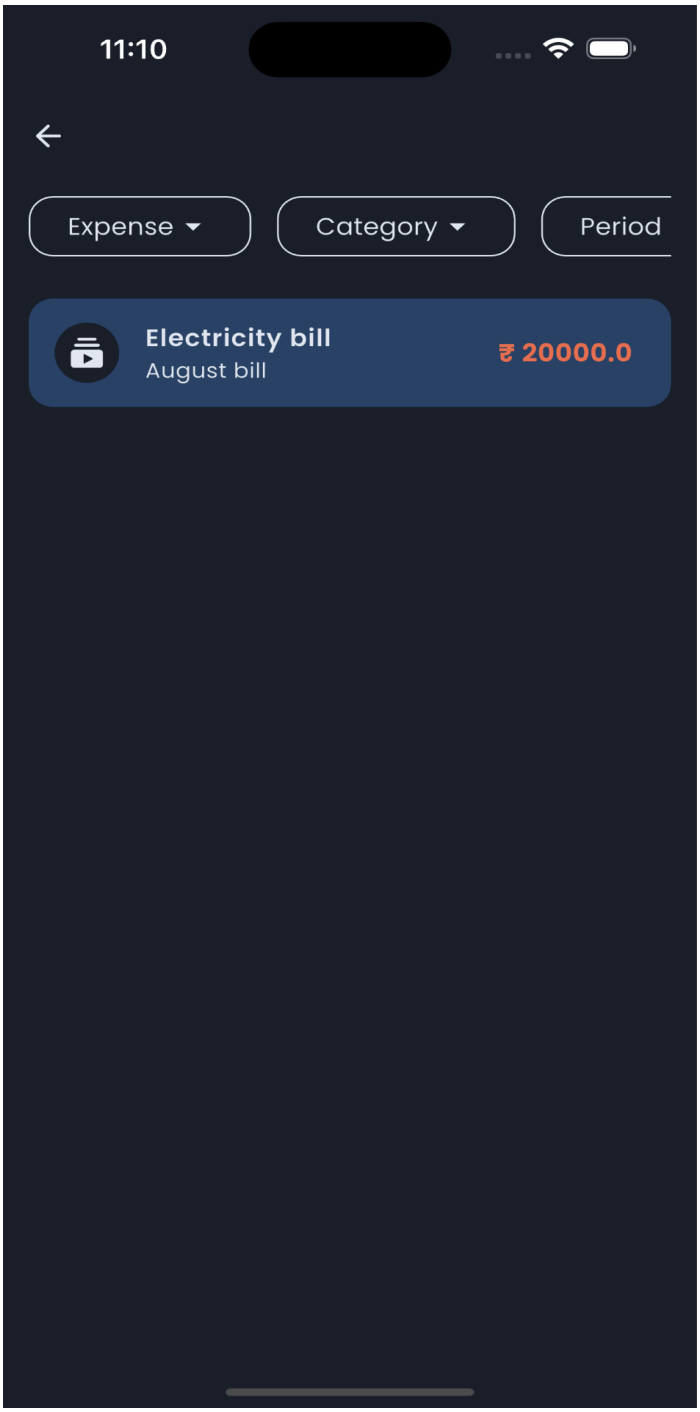

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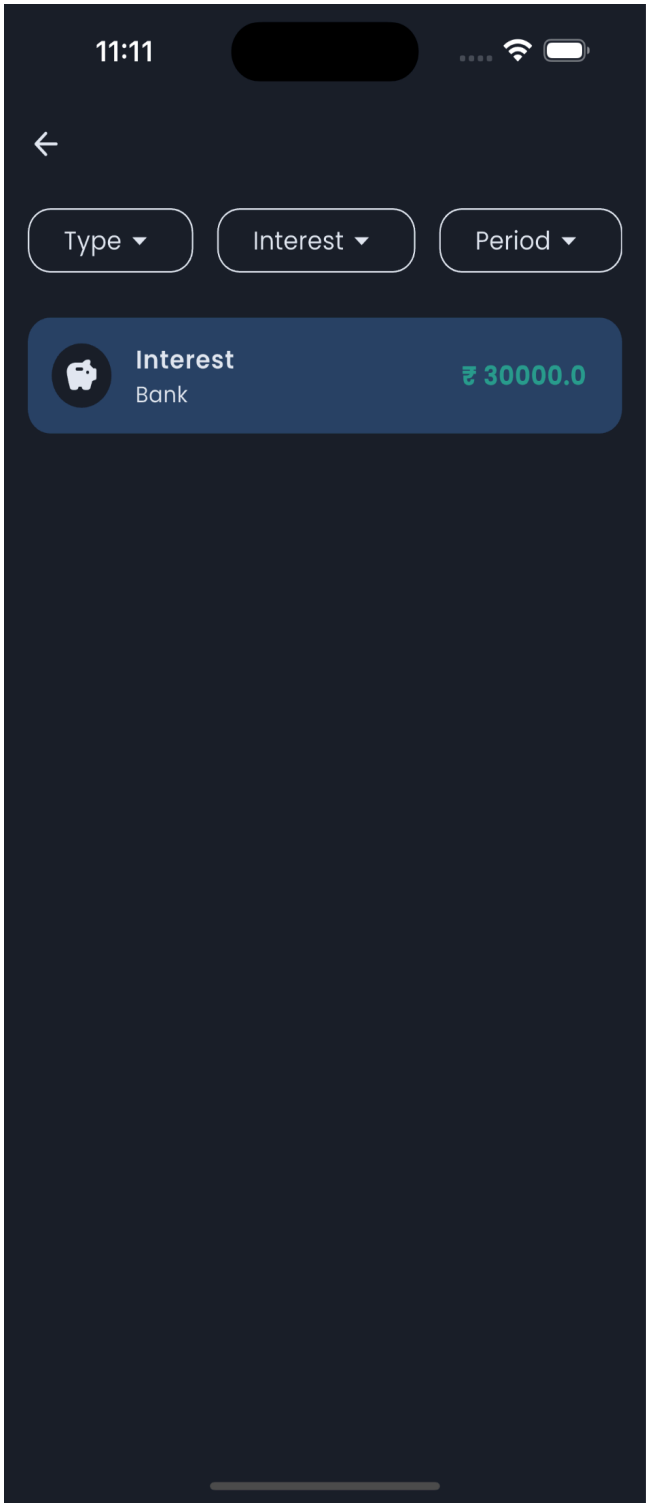	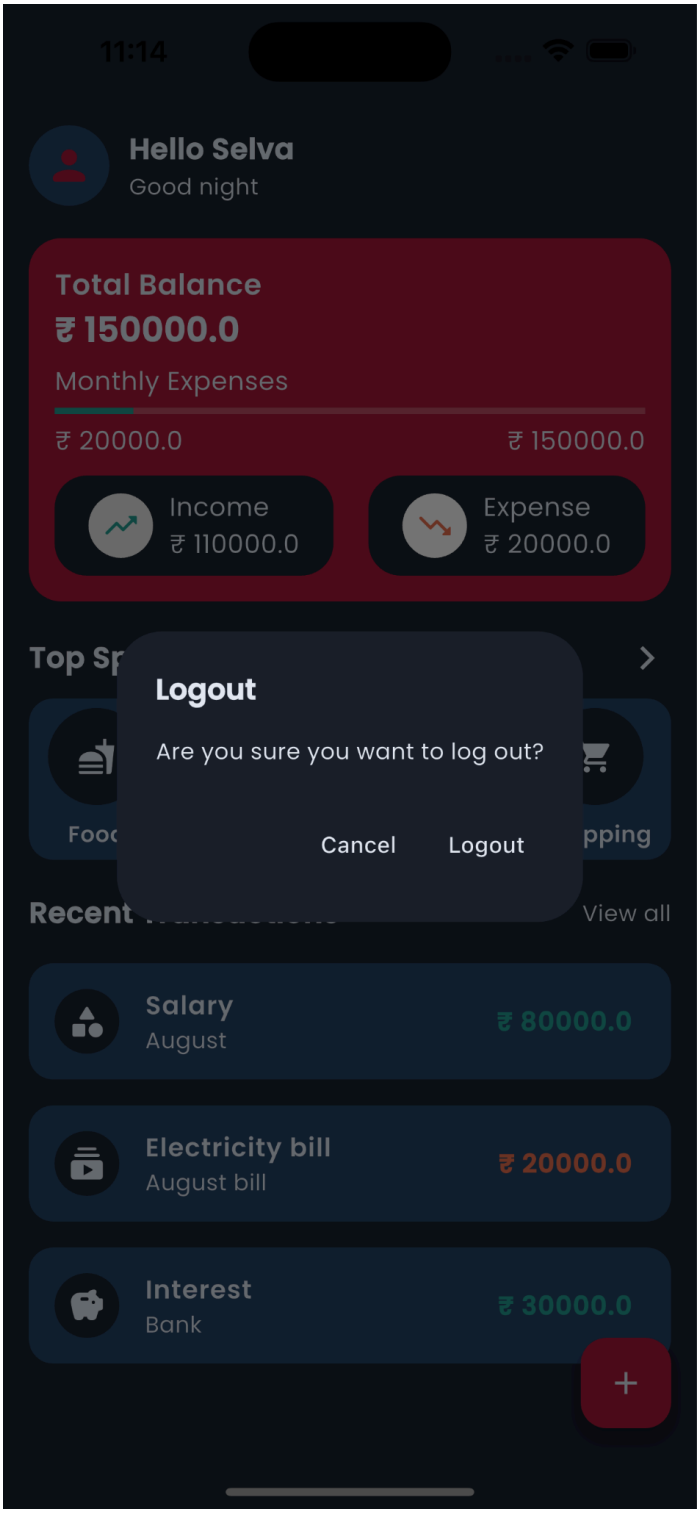

Light Mode:

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	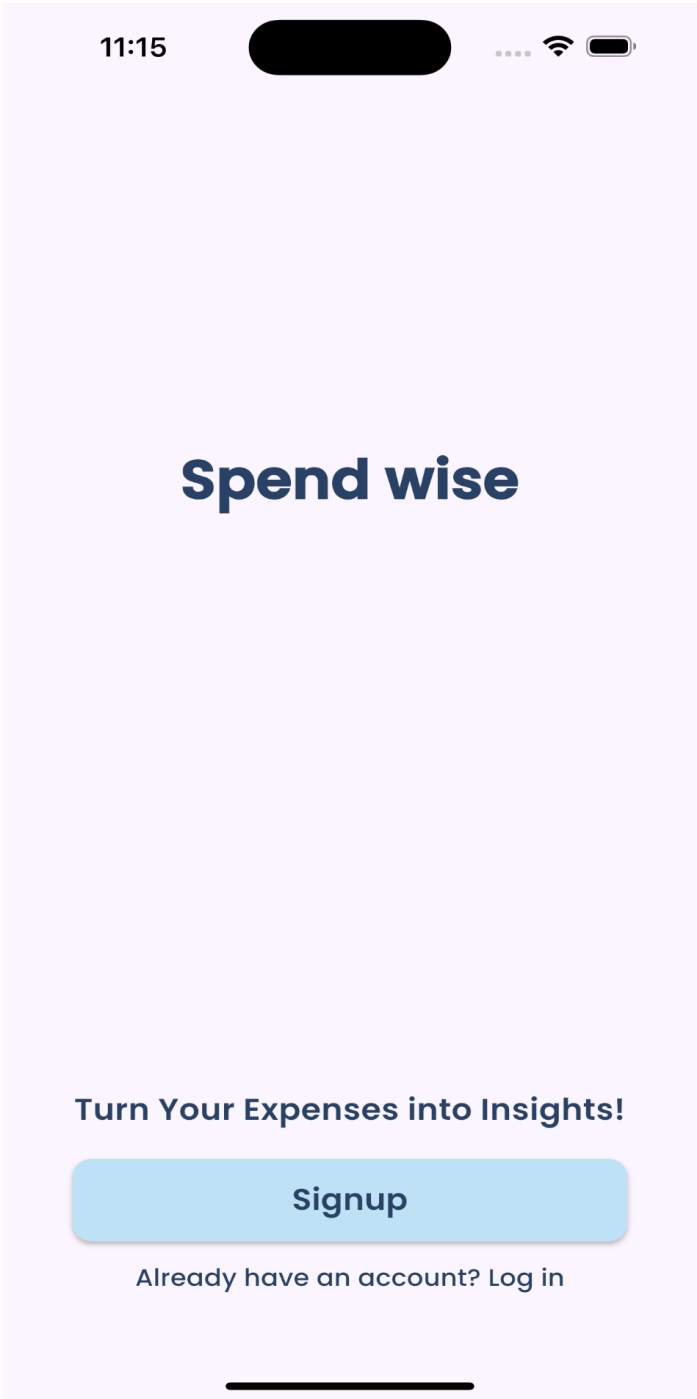

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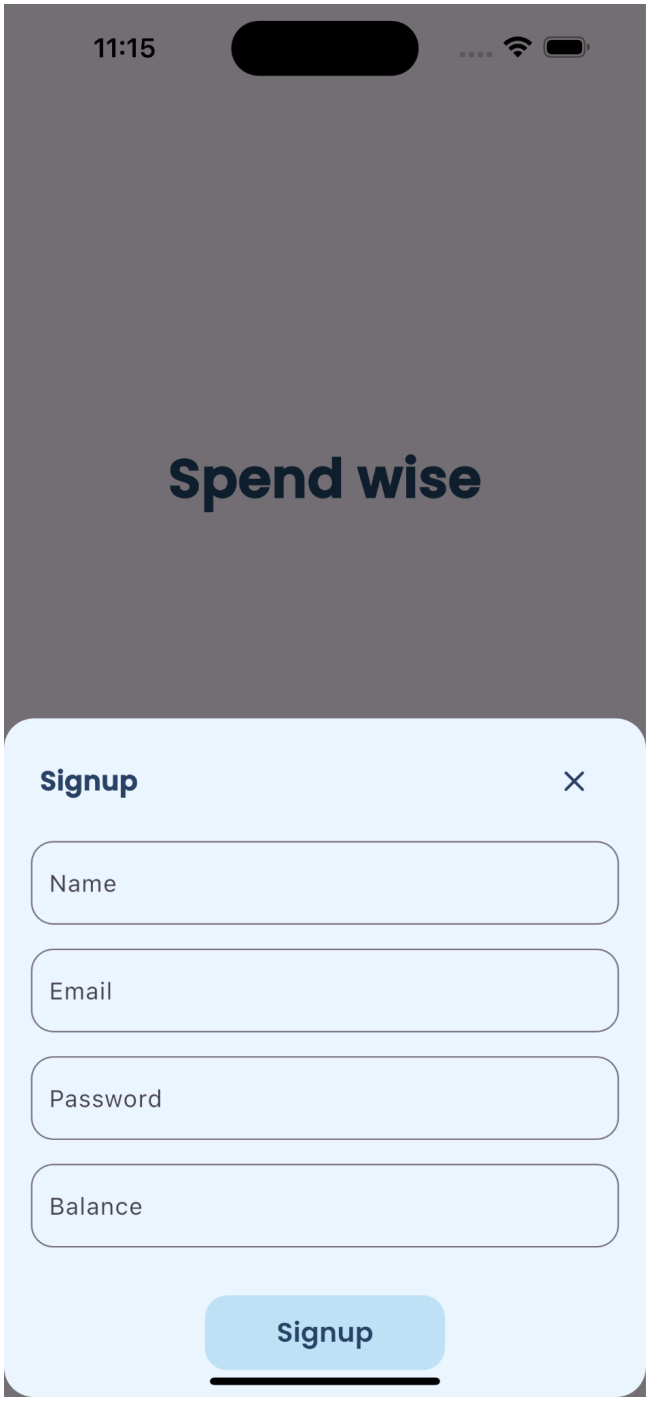	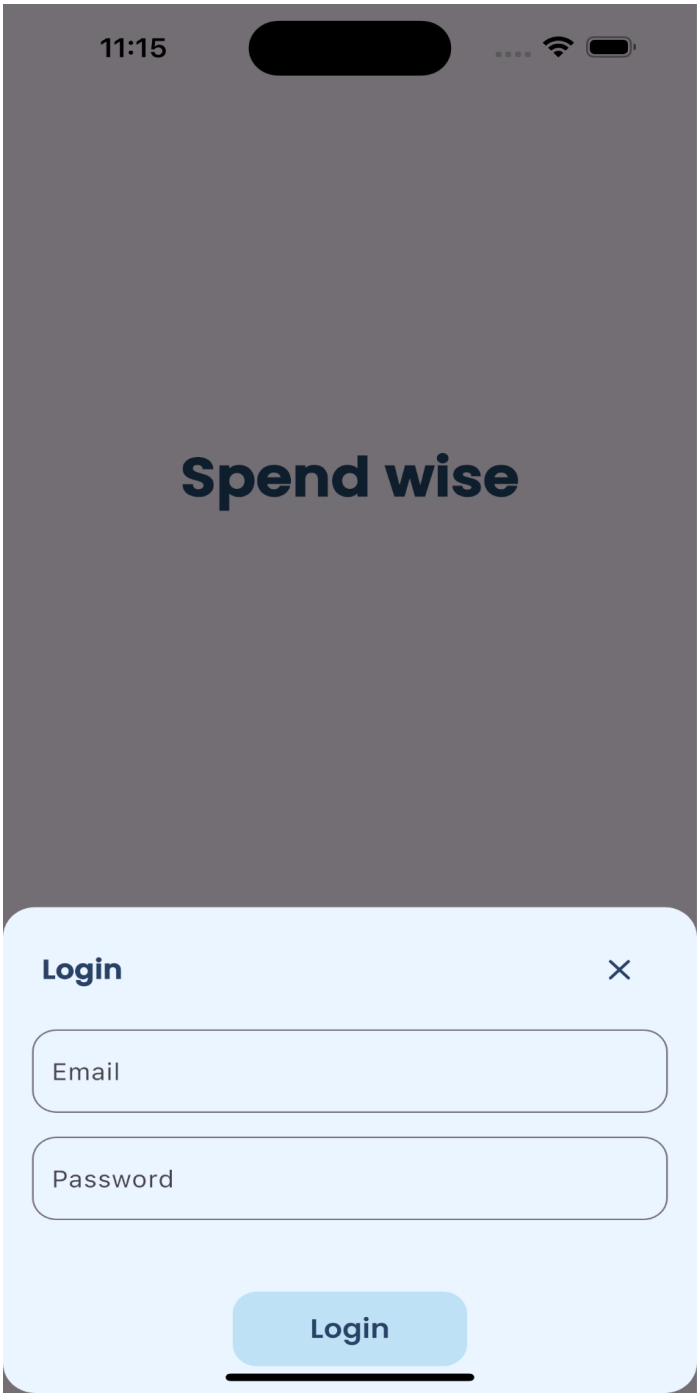

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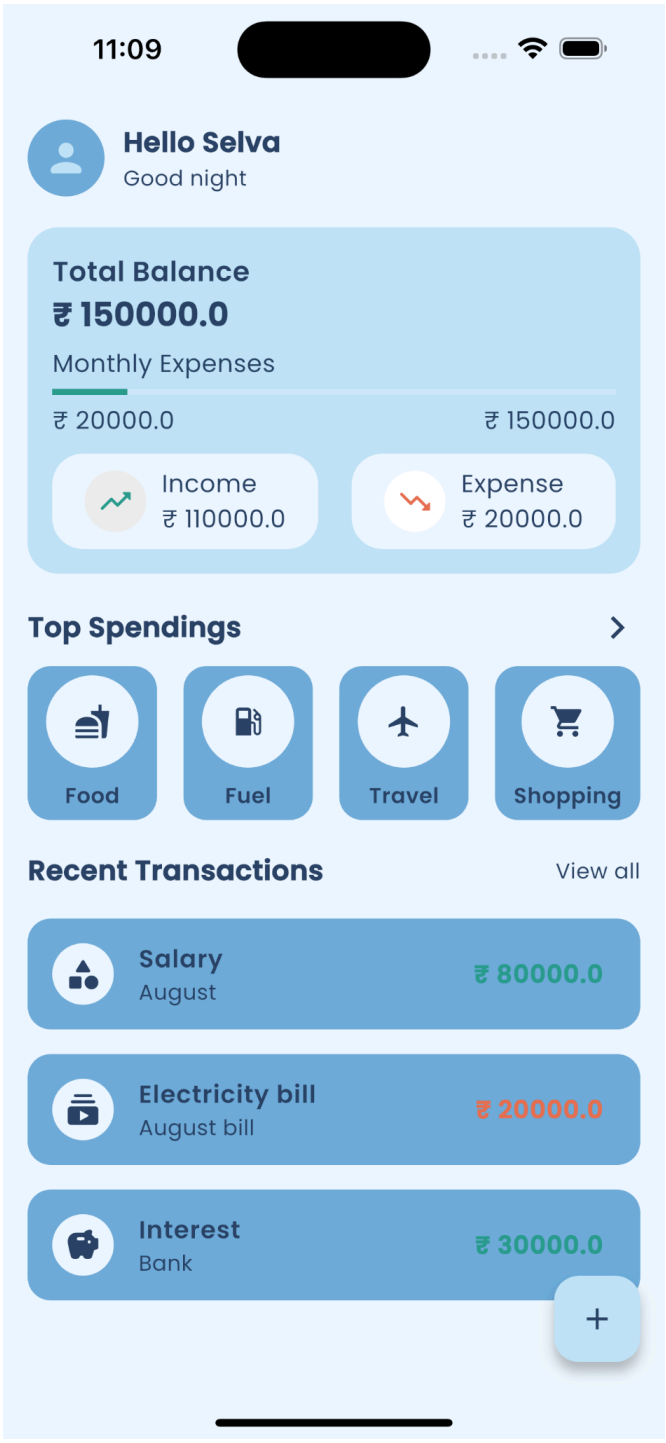	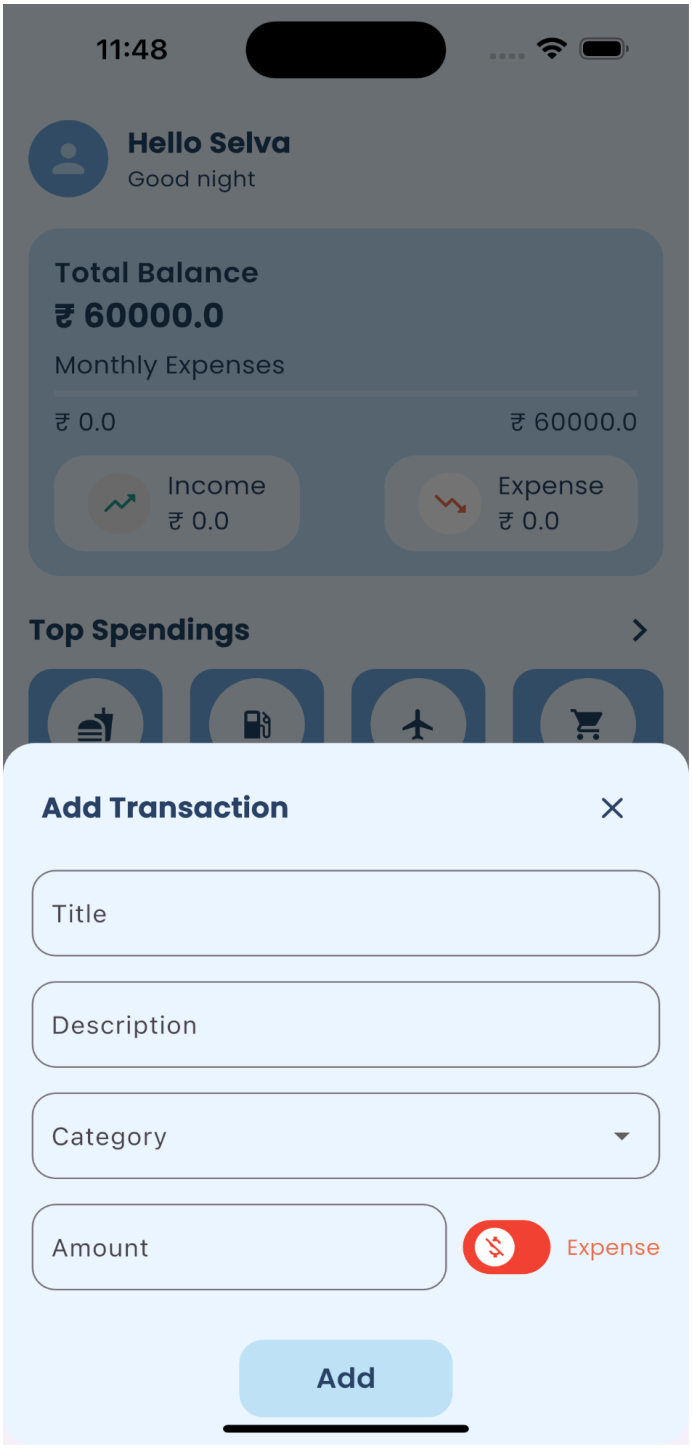

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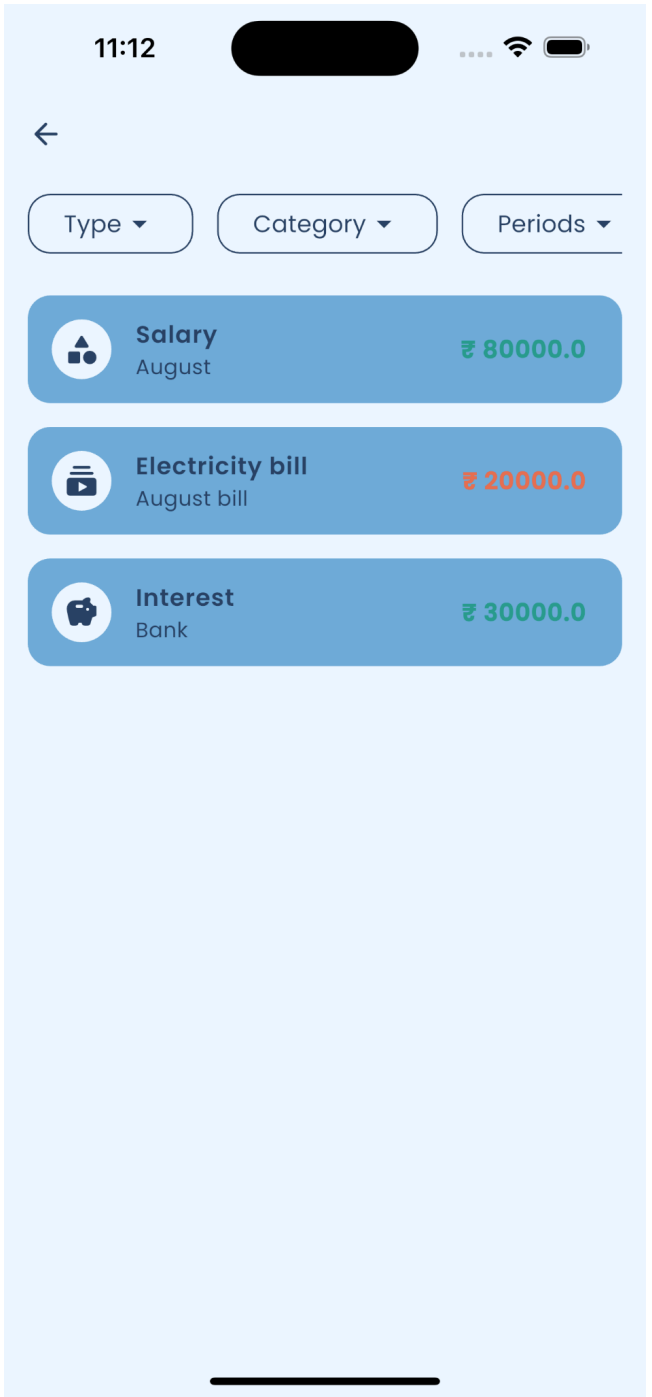	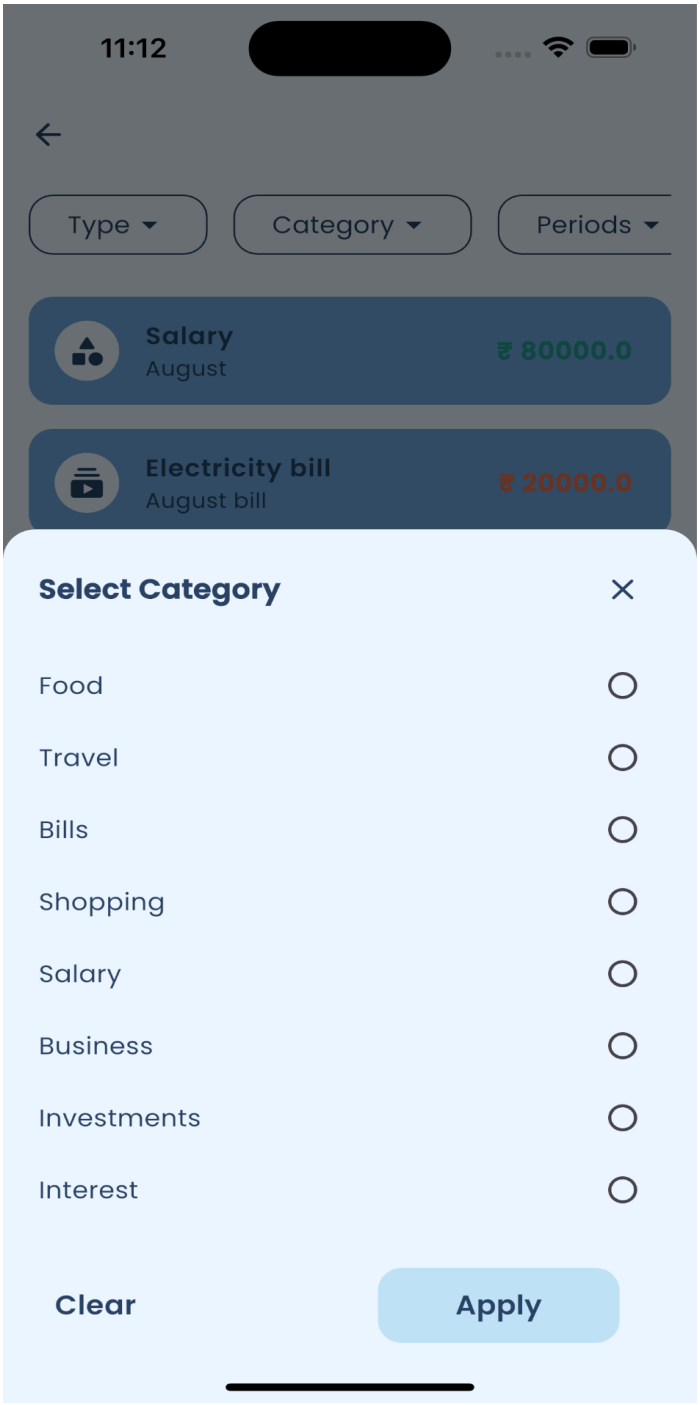

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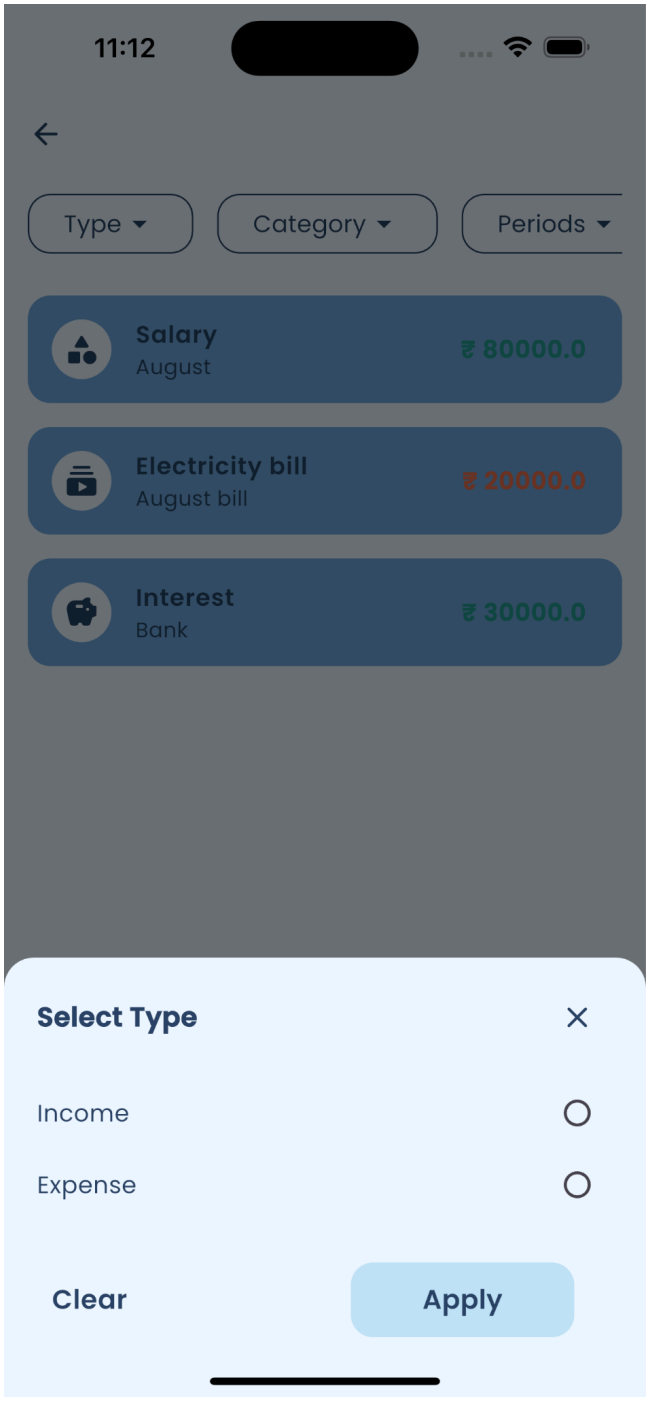	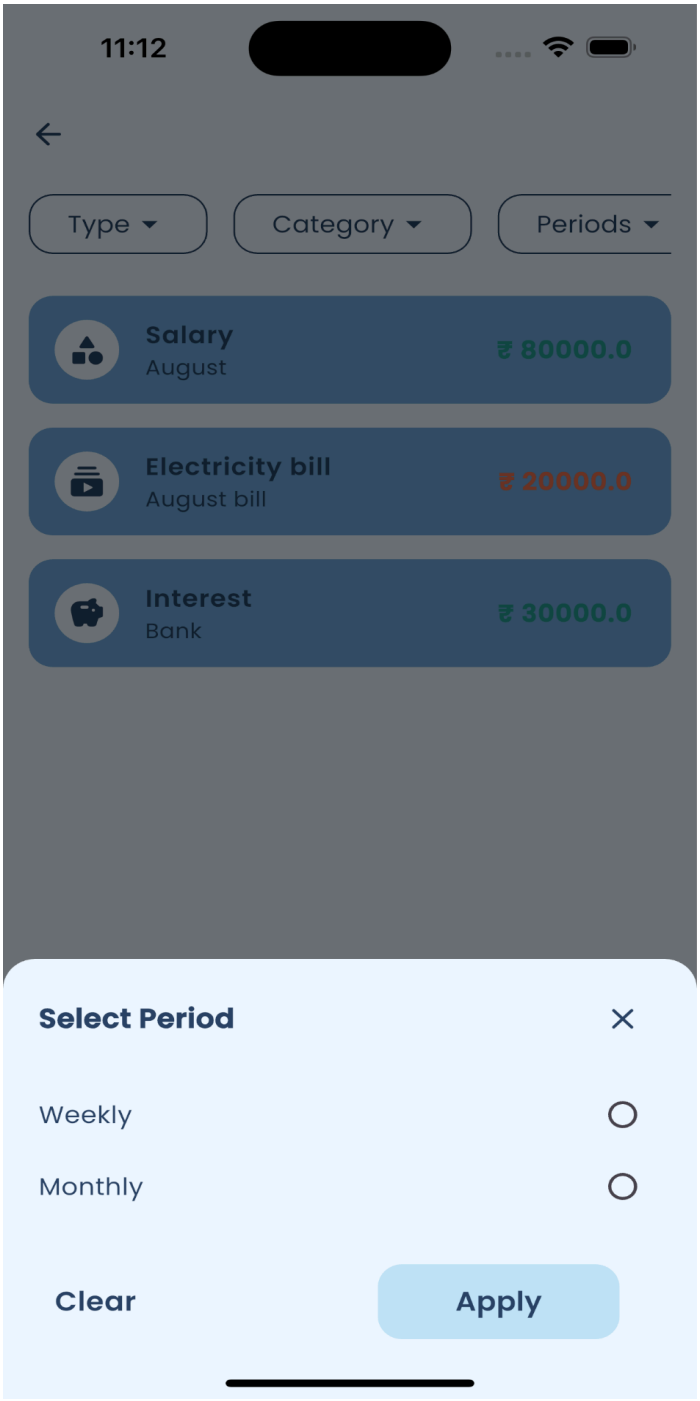

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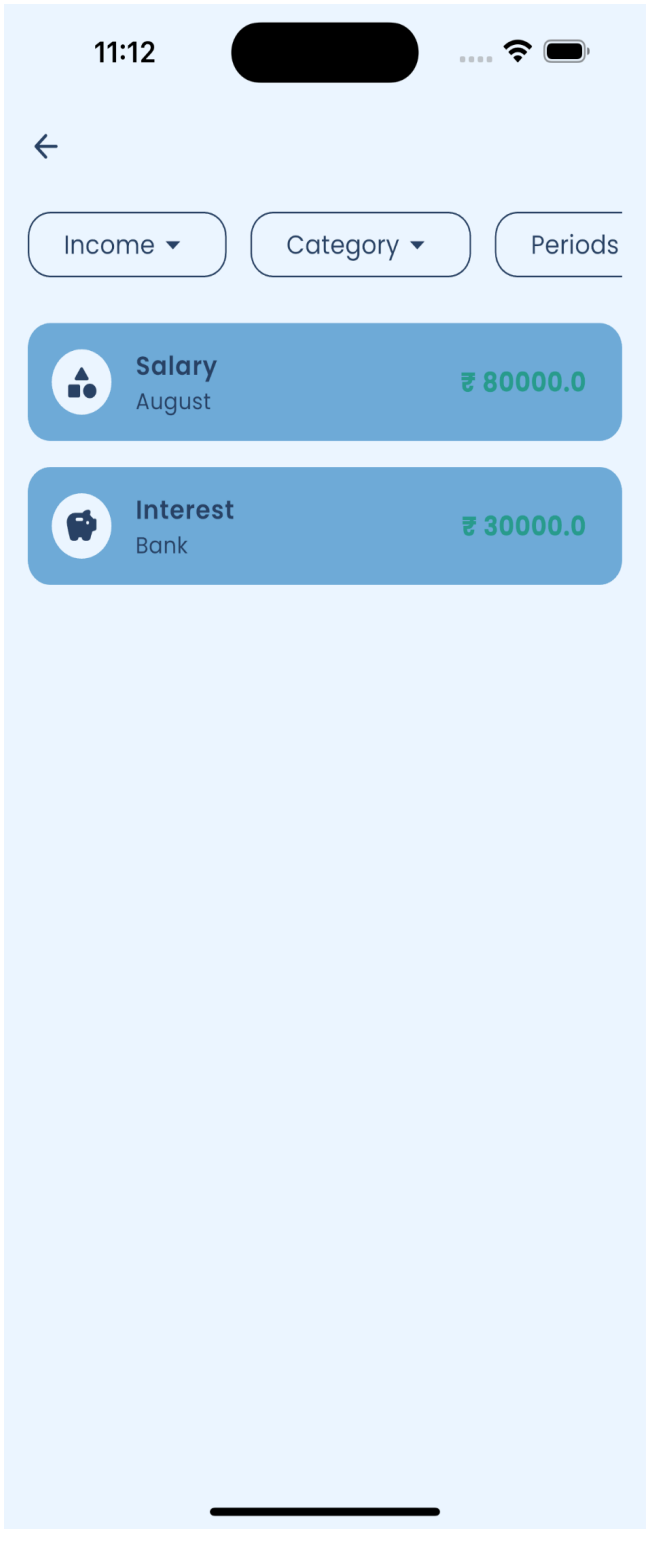	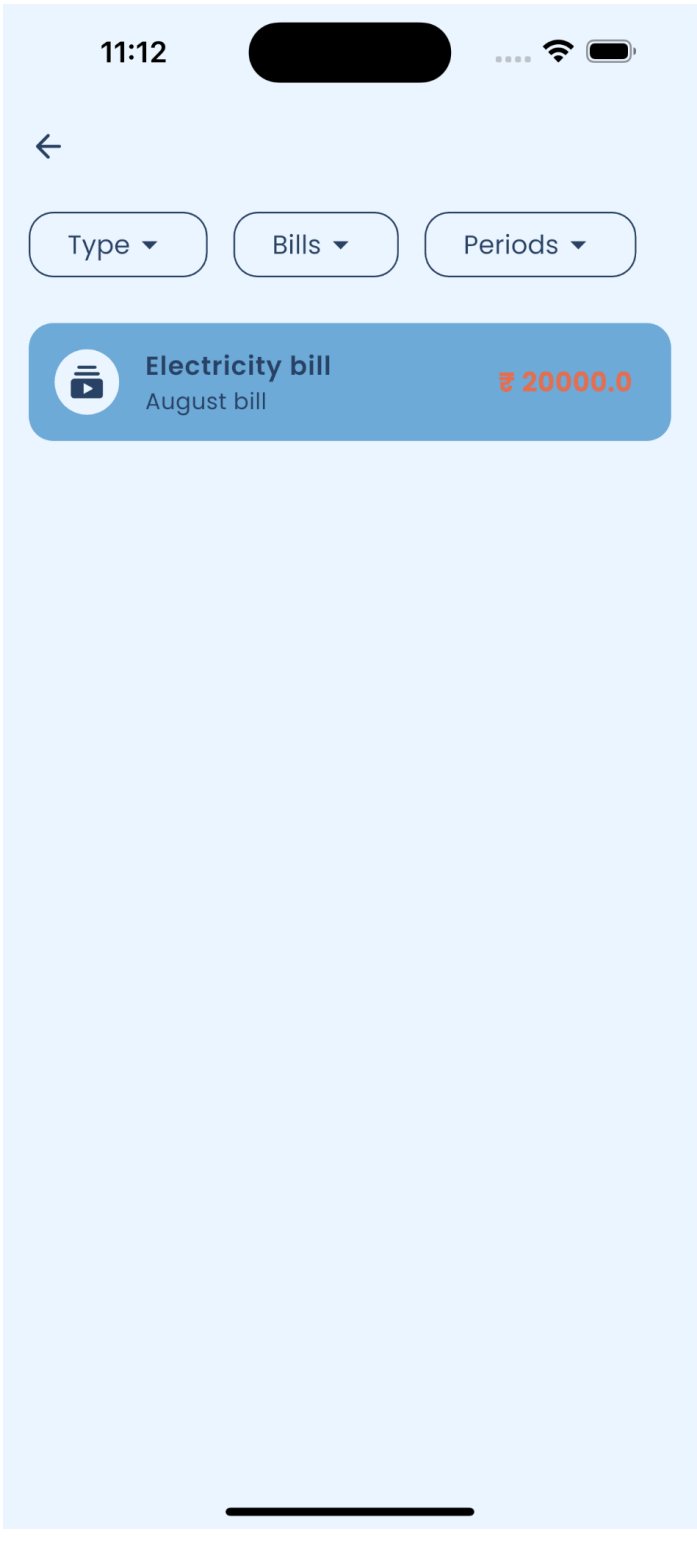
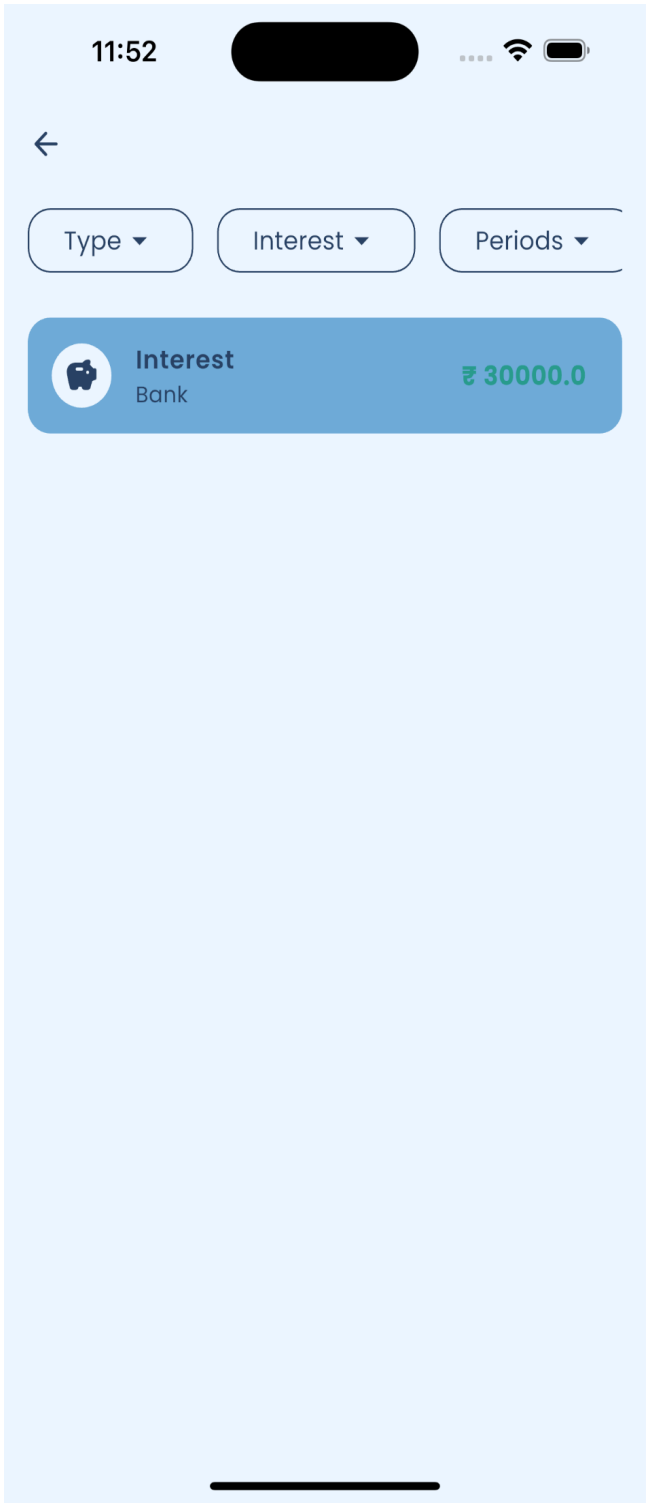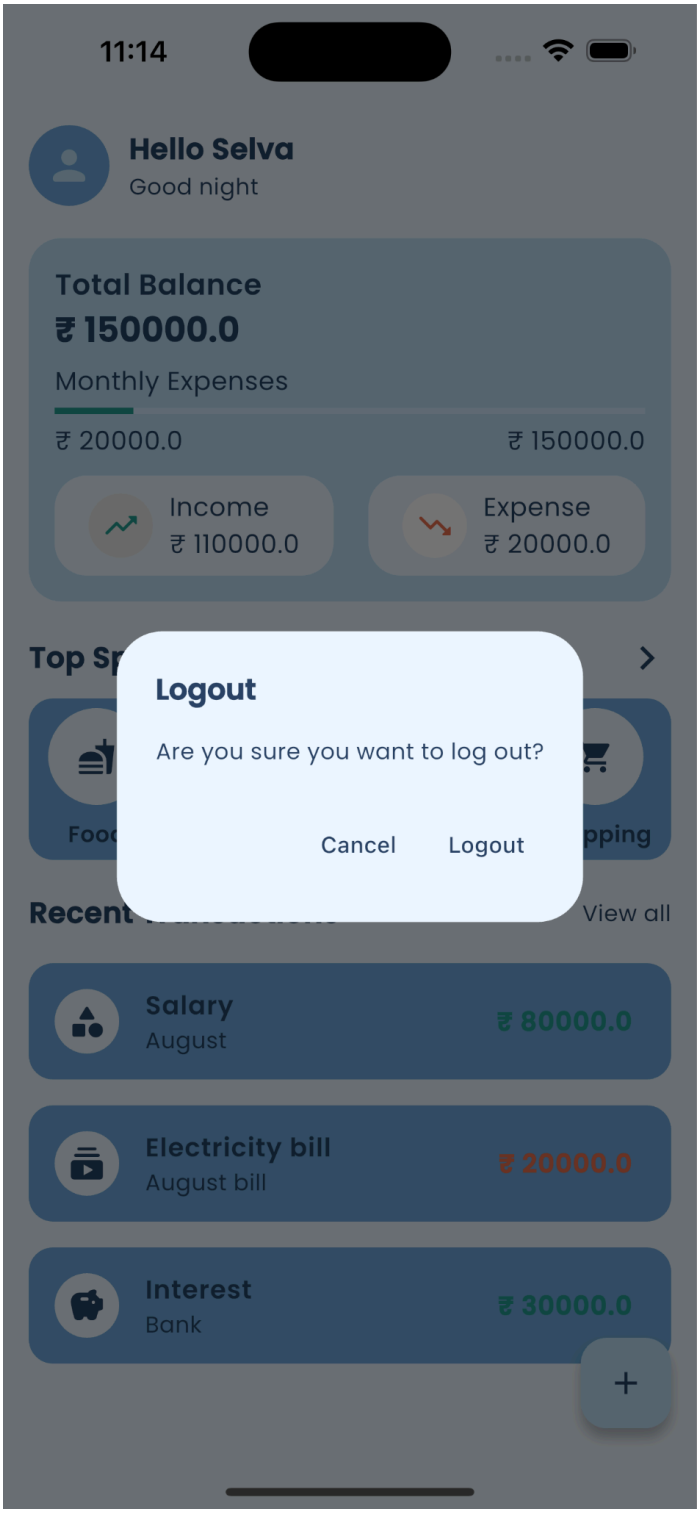
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