

Expense Manager Mobile App Report

Name: Hitarth Anand Rohra

Roll No: AM.EN.U4EAC21032

Introduction

The Expense Manager App is designed to aid individuals and businesses in effectively managing their finances. It offers a user-friendly interface and a variety of functionalities that cater to the tracking, categorization, and analysis of income and expenses.

Features

- **Income/Expense Tracking:** Users can easily record and categorize their financial transactions, which helps in maintaining an organized financial record.
- **Reports and Analytics:** The app provides daily and monthly reports, allowing users to track and analyze their financial activities over time.
- **Category Management:** Transactions can be categorized under multiple headings, allowing for detailed financial management and review.
- **User Interface:** Utilizes Bottom Sheet Fragments for a modern and intuitive navigation experience, enhancing user interaction through Custom Alert Dialogs.

Technologies Used

- **Frontend:** Developed using XML for layout design.
- **Backend:** Java is used for the backend logic, integrating with MongoDB for data management.
- **Database:** Realm database is employed for local data storage, facilitating quick data retrieval and storage without needing an internet connection.
- **Architecture:** Follows the Model-View-ViewModel (MVVM) architecture, promoting a clean and maintainable codebase.

Installation and Usage

The installation process involves cloning the repository and setting up the project in Android Studio. Once the project is set up, it can be run on an Android device or emulator to test its functionalities.

Challenges and Enhancements

- **Data Security and Privacy:** Ensuring the security and privacy of user data remains a paramount concern, particularly with financial information involved.
- **Scalability:** Future enhancements could include scaling the app to support a larger user base and integrating more complex financial management tools.
- **User Experience:** Continuous improvements can be made in the user interface to make it more engaging and easier to use.

Conclusion

The Expense Manager App stands out as a robust tool for managing finances, suitable for both personal and professional use. Its development approach using modern technologies and architecture ensures a reliable

and efficient user experience. Future updates may focus on expanding features such as real-time financial data integration and enhanced analytical tools.

For more details on the app, its setup, and its functionalities, you can visit the [GitHub repository](#).