



20CE 504L Programming Skills Development-II Laboratory (2023-24 Sem-I)(Mini Project)

Team Members:

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Title of App : Net\$ettle

Net\$ettle : Streamlined Money and Asset Management Solution for Comprehensive Financial Control

Problem Statement:

In a complex financial landscape, individuals struggle to efficiently track diverse assets—cash, investments, real estate, and possessions. The absence of a centralized platform for securely recording and managing these assets, along with personal money management—income, savings, and spending—poses a significant challenge. Our app seeks to streamline these processes, offering a user-friendly solution to consolidate, organize, and monitor all financial assets and transactions securely and comprehensively.

Abstract:

The objective of the NetSettle app is to provide users with a comprehensive and user-friendly platform for managing diverse financial assets and personal finances. The app aims to enable efficient tracking, organization and secure storage of income, spendings, savings and various assets like real estate, vehicles and valuables. By leveraging intuitive interfaces and the power of technology, it seeks to empower individuals to gain better control over their financial portfolio.

Technical Details:

Technology Selected - Android

1. Development platform -

- IDE - Developed using Android Studio for Android application development.
- Language - Utilized Java/Kotlin for coding the app.

2. Database Integration -

- Firebase Realtime Database: Employed Firebase's Realtime Database for managing and storing real-time data related to financial transactions and asset details.
- Firebase Storage: Utilized Firebase Storage for securely storing and managing various media files, such as receipts and asset-related images.

Keywords:

1. Money
2. Asset
3. Ornaments
4. Real Estate
5. Budget
6. Vehicle
7. Money Management
8. Loans
9. Wealth management
10. Finance

Features:

User Authentication:

1. Registration/sign

- ★ Username: Must be alphabetical , Null value is not acceptable,user first and last name should start with capital letter
- ★ Password: Must have atleast 8 characters contain alphabet,digits,special characters.
- ★ Contact no: Must be 10 digit.
- ★ Select one Question for Security purpose it will help to reset password (Question and answer should be save in firebase)

2. Login :

- ★ Username, Password and password confirmation.

3. Forgot Password :

- ★ To reset password select Question that u had selected at the registration time give answer of that question if answer got match with previous saved answer then user can reset data.

4. Sign in with google:

Profile:

Update/Edit profile

- ★ Update username, Update Password , Upload Image

Personal money Management:

- ★ Netbalance

Based on total in and total out value calculate for Netbalance
i.e. $\text{Netbalance} = \text{total in} - \text{total out}$

★ Total In : (Cash In)

After clicking on cashIn button ask for transaction details after giving the value for all field and save it will reflect in Total in section.

★ Total out : (Cash out)

After clicking on cashIn button ask for transaction details after giving the value for all field and save it will reflect in Total out section.

Wealth and Assets:

1. Ornaments
2. Real Estate
3. Vehicles
4. Miscellaneous

★ Accept detail information from user like Amount,Type,Location ,Date,Time,Upload Image ,Remark/Description and save to firebase and retrieve that info.

Scope and Feature:

The app presents two distinct interfaces

1. Personal Money Management

- Budgeting - Users can set budgets and allocate spending limits for different categories.
- Income and Spending Tracking - Allows users to record and categorize income sources and expenditures.
- Transaction History - Stores and lists all transactions for easy reference.

- Total Balance Calculation - Calculates the overall financial balance based on income and spending.
- Notification System - Sends alerts if spending exceeds the predefined budget limit.

2. Asset Management

- Four Management Options - Divided into four categories (e.g., Ornaments, Real Estate, Vehicles, Miscellaneous).
- Detail Entries - Users can add cost, quantity, and specify the location of each asset.
- Document Storage - Allows users to attach receipts, photos, and related documents for each asset entry.
- Comprehensive Asset Database - Provides a systematic database for managing and storing various assets.

Target Audience:

1. Individuals Seeking Comprehensive Financial Management.
2. Budget-Conscious Users Wanting Financial Control.
3. Individuals with Varied Asset Portfolios.
4. Tech-Savvy Users Looking for Data Organization.

The NetSettle app caters to a range of users, from individuals seeking efficient financial control to those interested in managing various types of assets in a systematic and user-friendly manner. It addresses the needs of users looking for an all-in-one solution for effective financial management and asset tracking

Android Feature implemented:

- 1.Layouts and View
- 2.Intent and Intent Filters
- 3.Toast and RecyclerView
- 4.Fragments and Adapters
- 5.Image Loading/Upload
- 6.Media Player
- 7.Broadcasting
- 8.Toast messaging
- 9.Graphical Primitives
- 10.Spinner Implementation
- 11.Alert dialog box
- 12.Date and Time
- 13.Firebase

Conclusion:

- The NetSettle app represents a significant solution for individuals seeking efficient personal finance management and comprehensive asset tracking.
- By offering distinct interfaces for managing personal finances and diverse assets, the app provides a user-friendly platform to streamline financial activities and systematically handle various possessions and valuables.
- With future enhancements, NetSettle aims to evolve into a more sophisticated and inclusive financial and asset management solution, providing users with a robust and versatile platform for achieving better financial control and asset organization.

