

Personal Expense Tracker Application

Project Design Phase II:

Functional Requirements

Functional Requirements:

These are product features or functions the developers must implement to enable users to accomplish their tasks.

Tools and Technologies:

Processor

Intel ® Core™ i7 or above

Installed Memory (RAM)

8.00 GB or above

System Type

64 bit Operating System

Software Interface

Client-Side

Android Mobile

Software

Android Studio

VSCode

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Database Server

IBM DB2

Flaws in the current system

- No offline data storage
- Overcrowded interface and inappropriate color schemes
- Unable to create multiple accounts
- Users get interrupted by annoying advertisements
- No privacy function
- Unable to generate PDF reports
- Unable to set budget mode (Weekly/Monthly)

Features of Daily Expense Tracker Android App Project

- Create multiple account
- Delete account
- Background color
- Modify Transactions
- Offline datastore ??
- Passcode security
- Selecting budget mode(Weekly/Monthly)
- Generate reports as PDF files
- Fully customizable categories

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- Cash flow (Pie/Bar/Graph)
- Expenses percentage
- Carryover
- Show transaction note
- Currency Symbol
- Divide the group expense easily
- Archived transactions

Modules of Daily Expense Tracker Android App Project

The modules which are currently covered are:

Add income/add expense

This module deals with adding income and expenses. The user has both options available for adding income and expense. If the user wants to delete that transaction then the user has to long click the transaction available in the spending tab then that transaction will be deleted from both tabs.

Modify Transactions

If the user wants to delete that transaction then the user has to click the transaction available in the spending tab then that transaction will be deleted from both tabs.

Filter Transaction view

In the transaction tab, the user can filter the transactions. In the Spinner, users can select the day, month and year and then click the filter button and according to the day, month and year transactions will appear. If the user wants to filter the transactions only on the basis of day, for example, user-selected Monday then all

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transactions will appear that were made on Monday.

PDF Report

In the transaction, the tab user has an option available for creating a report in PDF. Users click on the PDF button then PDF report will be generated and the user can view that report and that report will be automatically saved in the device.

Transactions overview as Pie/Bar/Graph

The user has three options available for graphical representation. When the user rotates the device then the pie chart will appear on the screen and also switch is available on the screen when the user will click on the bar chart will appear on the screen and when the user clicks on graph then Graph will appear on the screen.

Themes

At the top bar, the user has a setting option when the user clicks that then background option will appear user can select different background colors. After selecting the particular color background color will be changed.

Passcode

The passcode is available in setting option at the top bar. When the user clicks on the passcode switch when the user switches on then the passcode screen will appear and the user can choose the password and that password will be saved in the database. After that when the user will open the application user have to enter the passcode and that passcode will be matched with passcode saved in the database. If the user entered the wrong passcode then the error message will appear.

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Currency Symbol

The currency symbol option is available at the top bar setting button. Users can select different currency symbols. If the user selects the dollar symbol then that symbol will appear on the spending tab.

Group Expense:

There is a dedicated feature to take care of group expense. The user needs to enter the tag of expense, the amount spent and the people who were part of the group. Once the tick / continue button is clicked automatically the other members get notification of the expense. The user's expense is too automatically logged.

Archived transaction

The user is given the option on how frequently the transactions are to be archived. Based on the choice, the transactions within the particular duration are archived.