

**2025 – Lab Exam 03
Report**

Student ID	IT23437852
Batch	WD 7.2
Marking Guide	
1. Functionality: How well the core and bonus features are implemented	4
2. Creativity & Usability: Clean and intuitive UI/UX design	2
3. Validation & Error Handling: Proper input validation, error handling, and user feedback implementation	2
4. Data Persistence: Proper use of SharedPreferences and Internal Storage	2
Total Marks	10
Evaluator	

Description:

Financial Management Tracker App

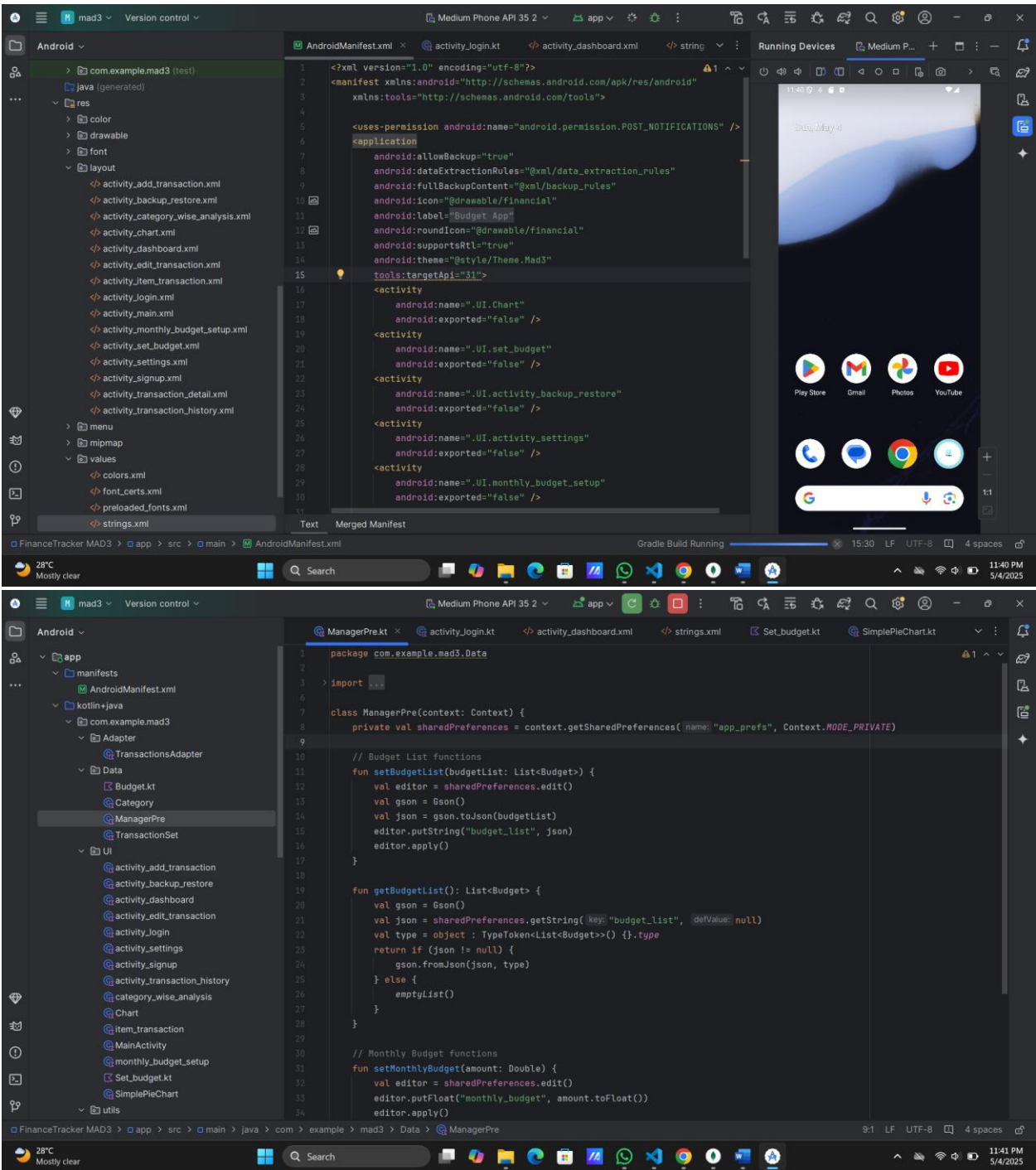
I have developed a *Financial Management Tracker App* aimed at helping users manage their personal finances effectively through a simple and user-friendly mobile interface.

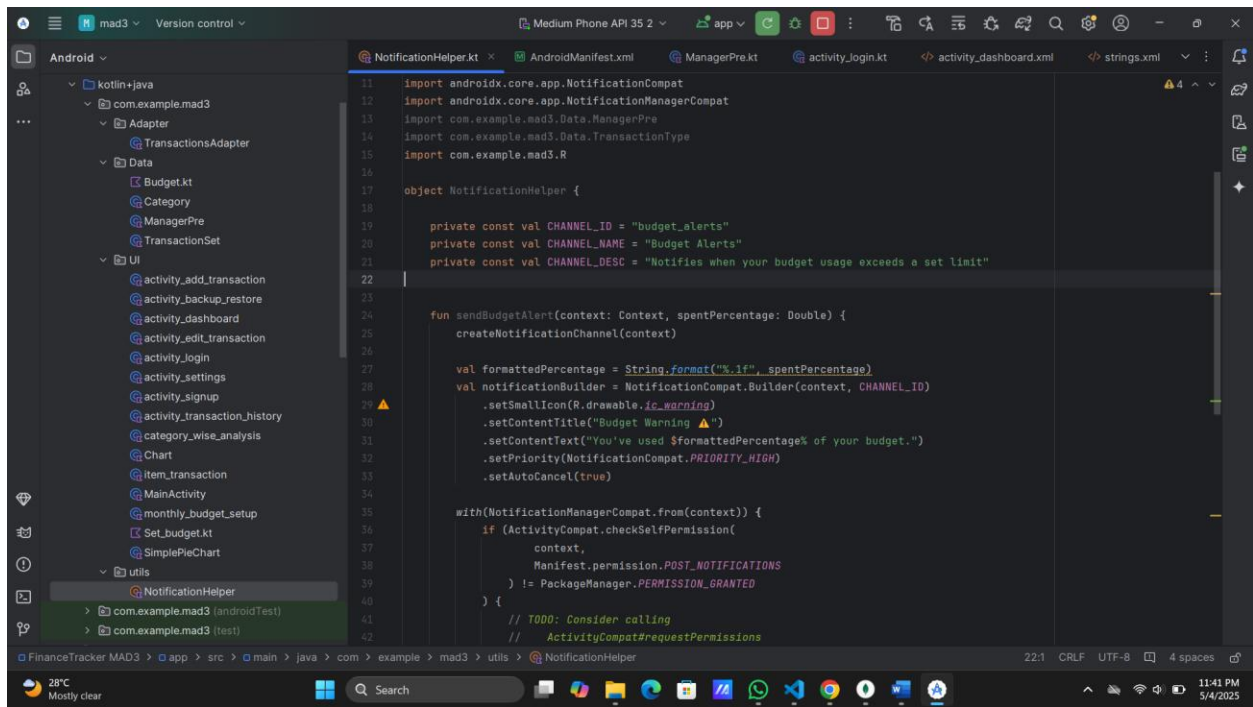
The functionality of the app includes:

- **Adding Income and Expenses:** Users can input their earnings and expenditures, which are stored and categorized.
- **Budget Setting and Balance Tracking:** Users can set a monthly budget limit, and the app automatically calculates and displays the remaining balance in real time.
- **Expense Analysis with Pie Chart:** A visual representation of spending categories is provided through a dynamic pie chart, enabling users to better understand their spending habits.
- **User Authentication:** A login system ensures that user data is secure and personalized.
- **Budget Exceed Notification:** The app sends a notification alert when expenses exceed the set budget, helping users stay within financial limits.

This project demonstrates practical implementation of core Android development concepts including data storage, real-time calculations, visual data representation, user authentication, and notification handling. The application is designed to enhance financial awareness and support better budgeting decisions for users.

Screenshots:





11:43



Dashboard

Current Balance

LKR 3,000

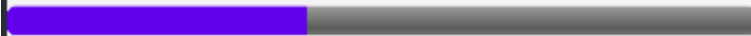
Income

LKR 15,000

Expenses

LKR 12,000

Budget Usage



Add Transaction

Set Budget

View Transaction

BackUp and
Restore



Dashboard



11:43



Add Transaction

Title (e.g. Salary, Grocery)

Amount (Rs.)

☐ Income ☐ Expense

Food

04/05/2025

Save Transaction



Transaction History

dff

₹5000.00

Salary

25/04/2025

Edit

Delete

VX

₹8000.00

Food

25/04/2025

Edit

Delete

GO no

₹5000.00



11:44



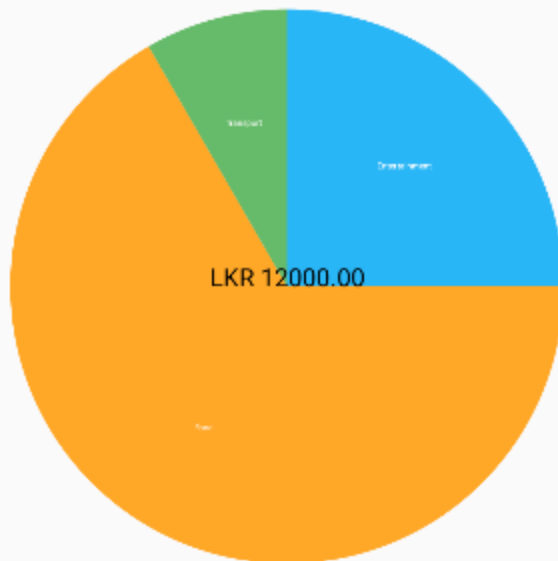
Category-wise Spending Analysis




WEEKLY

MONTHLY

CUSTOM

Total Spending: LKR 12000.00



 Budget Warning  • now 
You've used 240.0% of your budget.

Budget

◀ April 2025 ▶

Monthly Budget

LKR 5,000

240.0%

You're approaching your budget limit

Spent

LKR 12,000

Remaining

LKR -7,000

SET BUDGET

Expenses by Category

11:45



Set Monthly Budget

Enter budget in LKR

Save Budget

11:46    



Backup and Restore

Last Backup: Not Available

Enable Auto Backup



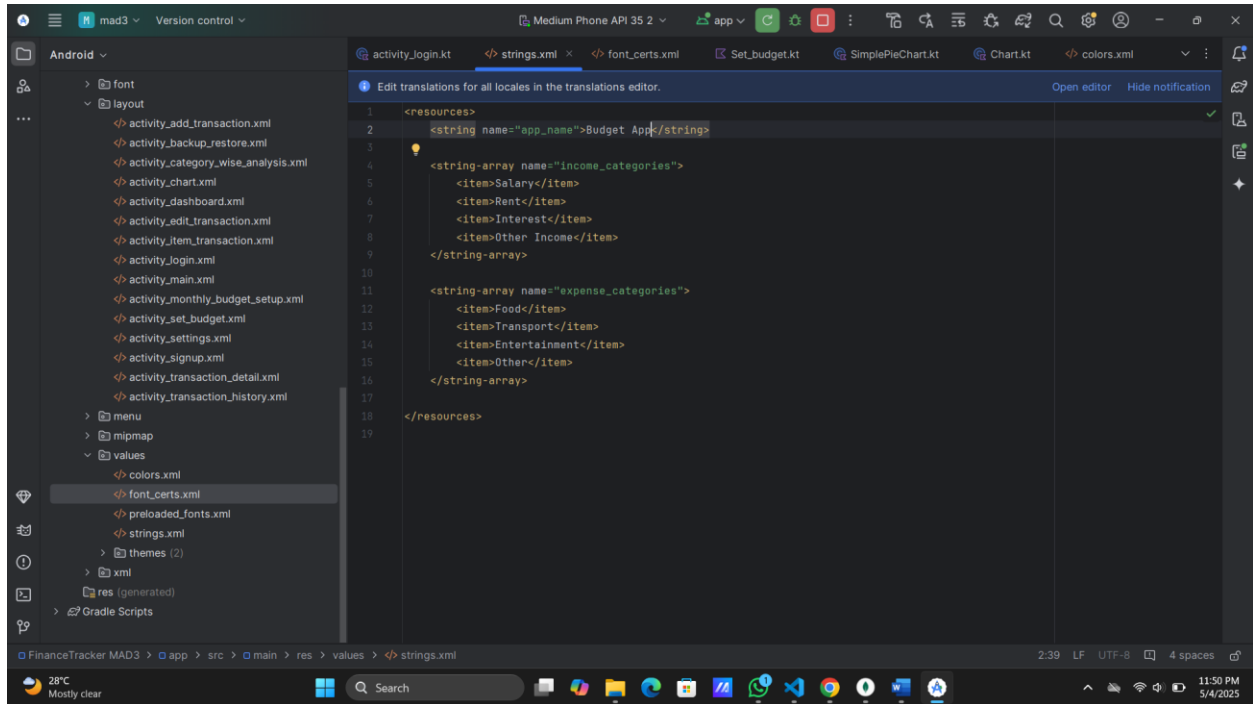
Backup Now

Restore Backup

Cancel

Content of xml files of Strings and Colors:

Strings



The screenshot shows the Android Studio IDE with the 'strings.xml' file open in the 'values' directory. The file contains the following XML code:

```
1 <resources>
2   <string name="app_name">Budget App</string>
3
4   <string-array name="income_categories">
5     <item>Salary</item>
6     <item>Rent</item>
7     <item>Interest</item>
8     <item>Other Income</item>
9   </string-array>
10
11   <string-array name="expense_categories">
12     <item>Food</item>
13     <item>Transport</item>
14     <item>Entertainment</item>
15     <item>Other</item>
16   </string-array>
17
18 </resources>
19
```

The IDE interface includes a project explorer on the left showing the file structure, a toolbar at the top, and a status bar at the bottom indicating the file path and encoding.