

IT2010 – Mobile Application Development BSc (Hons) in Information Technology 2nd Year Faculty of Computing SLIIT

2025 – Lab Exam 03 Report

Student ID		IT23203280
Batch		WD 07.02
Marking Guide		
1.	Functionality: How well the core	4
	and bonus features are	
	implemented	
2.	Creativity & Usability: Clean and	2
	intuitive UI/UX design	
3.	Validation & Error Handling:	2
	Proper input validation, error	
	handling, and user feedback	
	implementation	
4.	Data Persistence: Proper use of	2
	SharedPreferences and Internal	
	Storage	
	Total Marks	10
Evaluator		

Description:

SmartBudget helps users manage their personal finances by tracking income, expenses, and savings. It features transaction management with categorization, monthly budget setup, and real-time budget tracking. Users can view category-wise spending summaries to analyze habits and improve budgeting.

The app supports **dark mode** for a better user experience in low-light environments. Data is stored using **SharedPreferences** to maintain user settings and transaction history across sessions. Bonus features include **data backup and restore** via internal storage and **push notifications** to alert users when nearing or exceeding their budget, along with optional daily reminders.

1:50



1:51 ▼◢ ▮



Track Your Finances

Easily record income and expenses with detailed categories. Stay on top of your financial journey!



SKIP

NEXT

1:52



Smart Budgeting

Set monthly budgets and get real-time insights. Never overspend again with smart notifications!



SKIP

NEXT

1:52 ▼⊿ 🗓



Visual Analytics

Understand your spending patterns with beautiful charts. Make informed financial decisions!



SKIP

GET STARTED

1:52 ▼⊿ 🗎

Enter Passcode

Enter 1234

SUBMIT

1:52 ▼⊿ 🗎

Total Balance

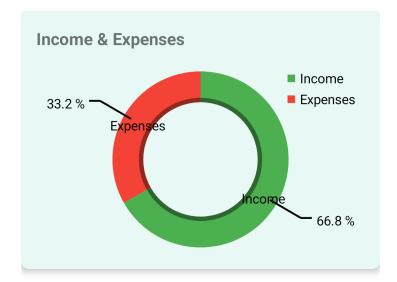
\$296.00

Total Income

\$588.00

Total Expense

\$292.00





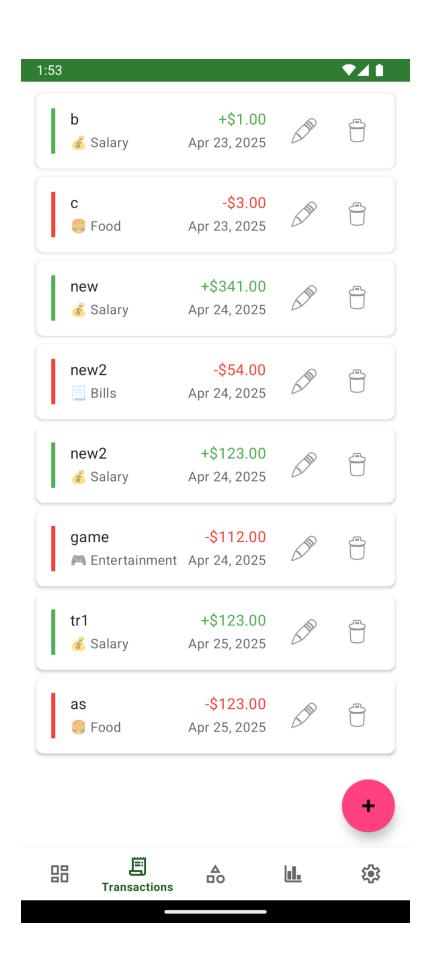
Dashboard

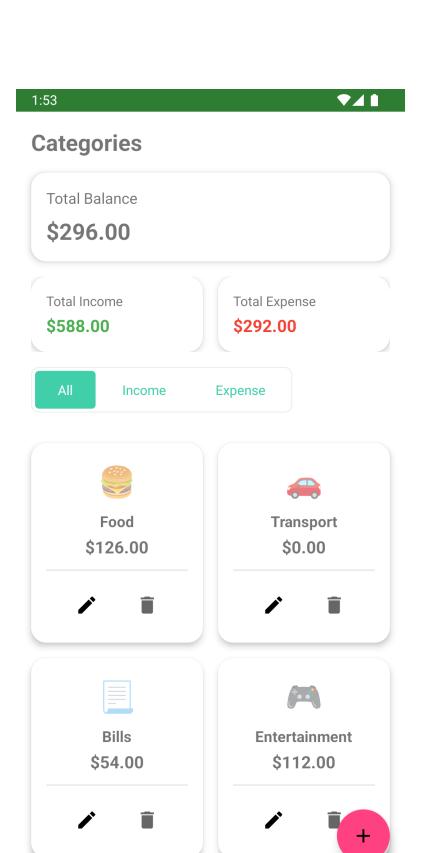










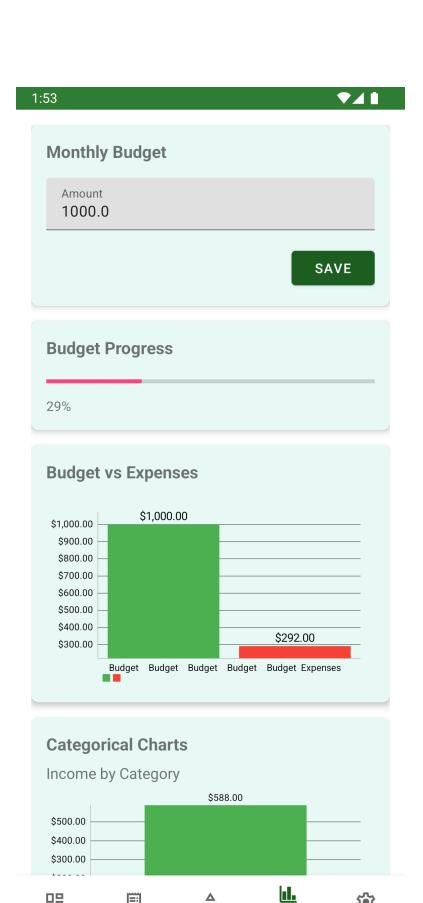


△

Categories

<u>ıl.</u>

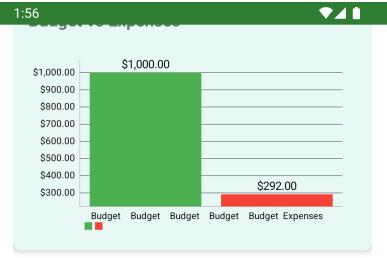
믊



△

Budget

믊





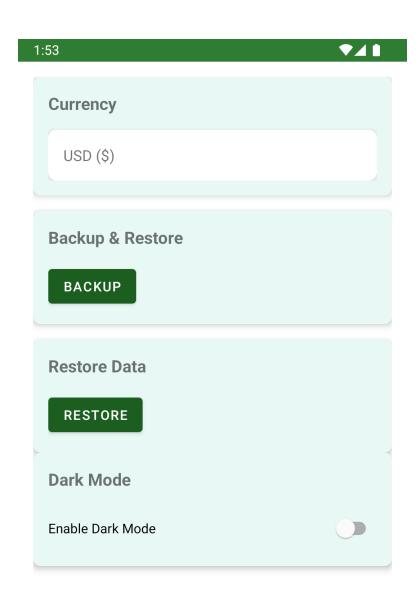












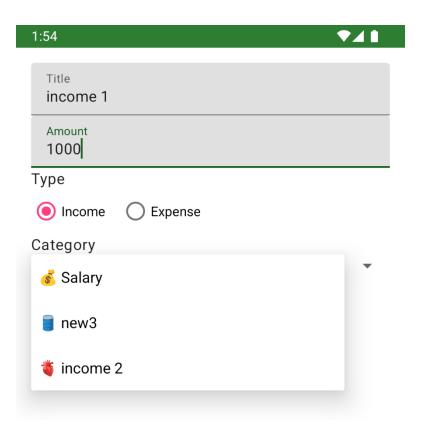








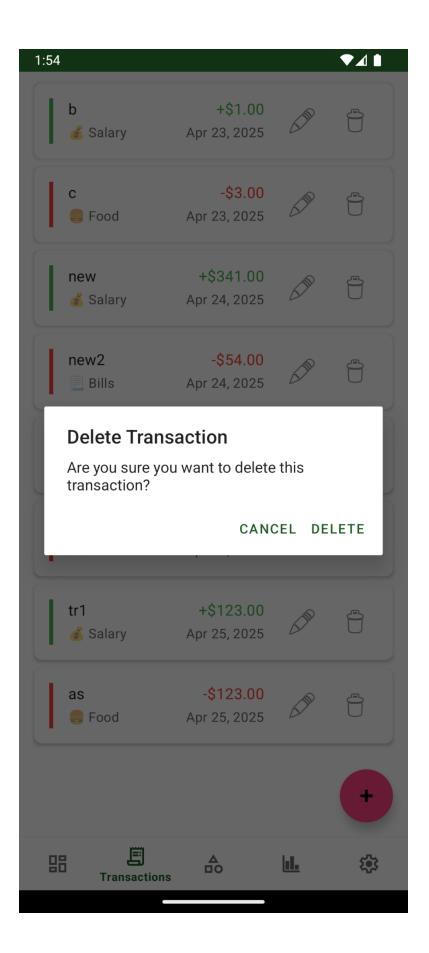


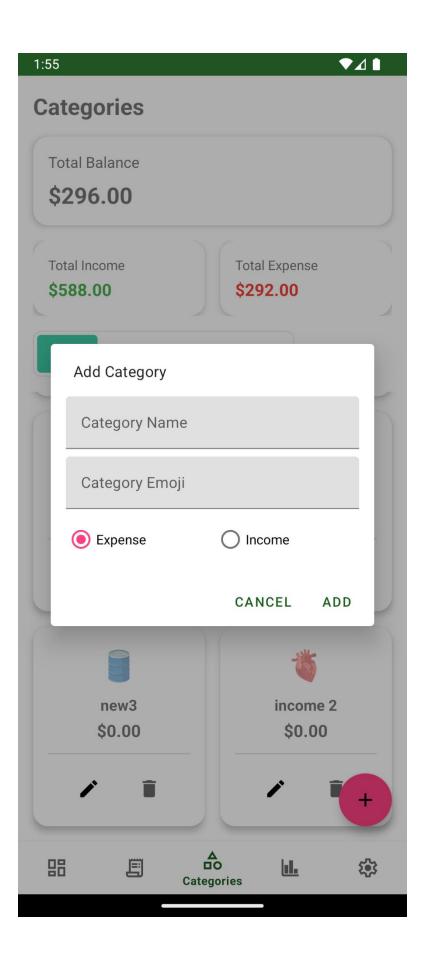


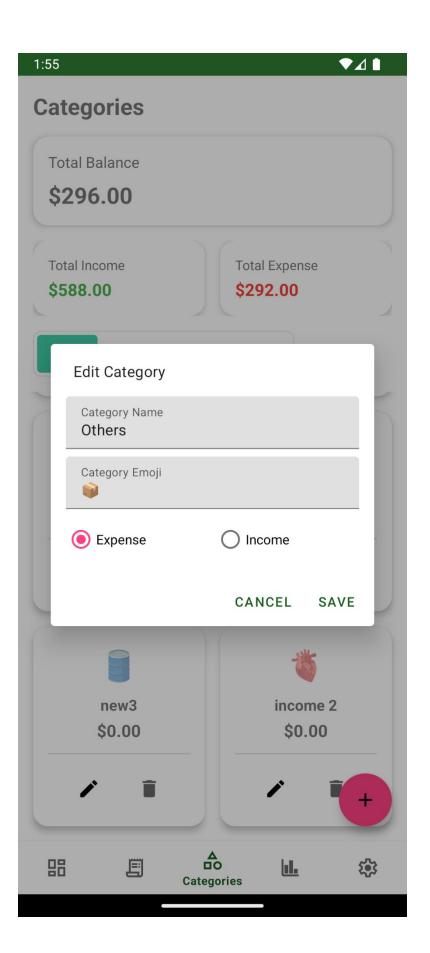
SAVE

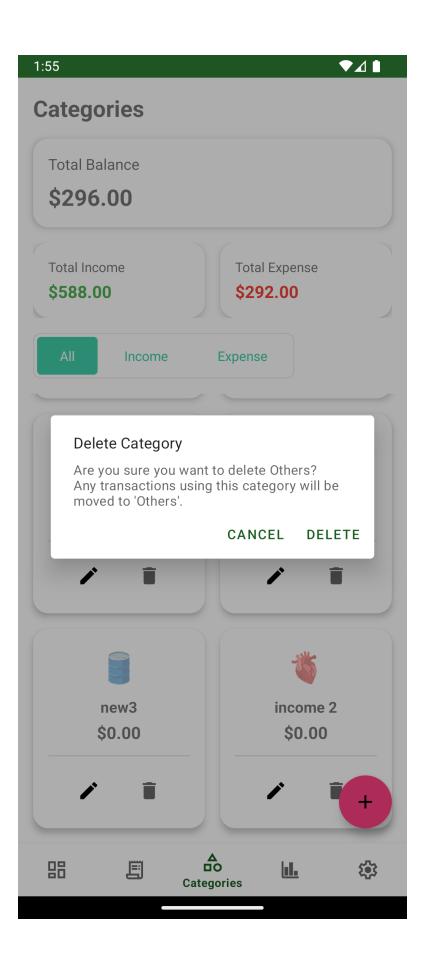
CANCEL

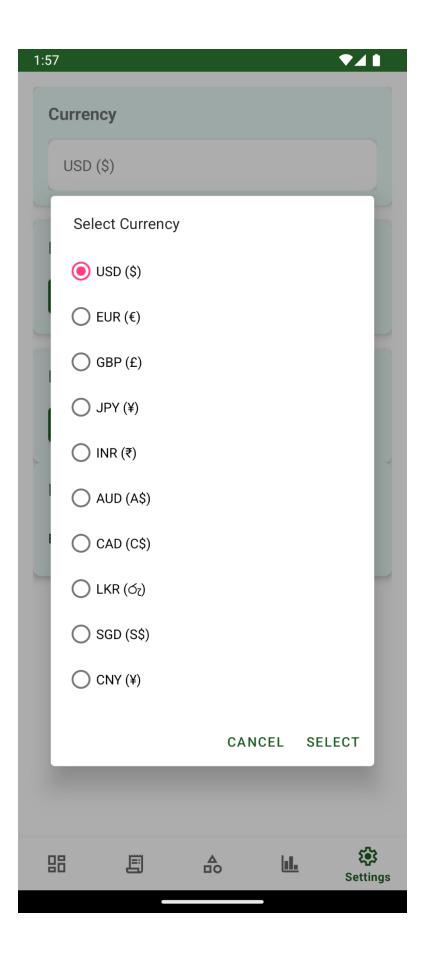


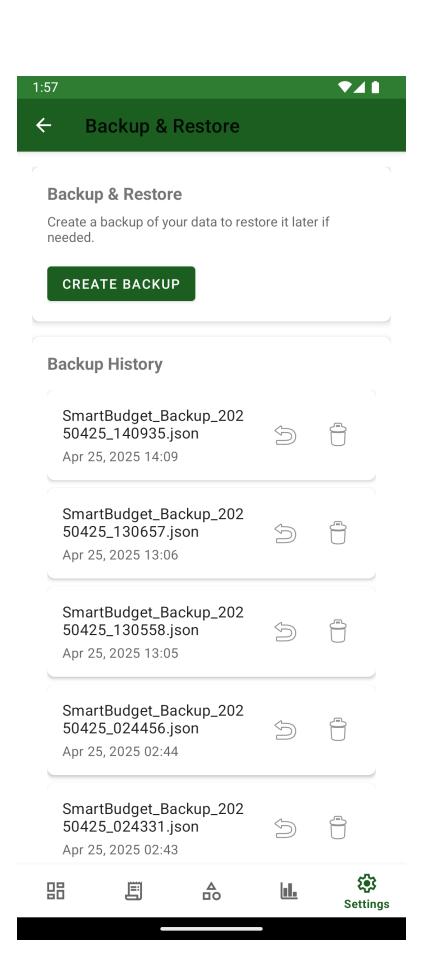


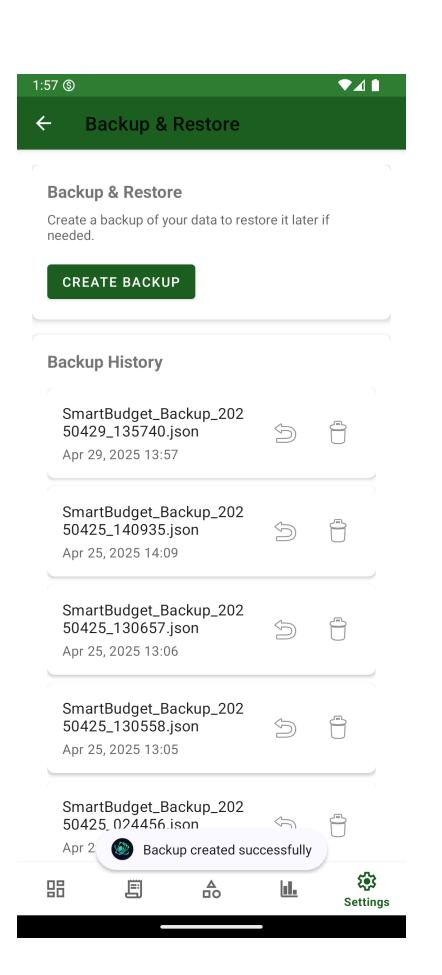


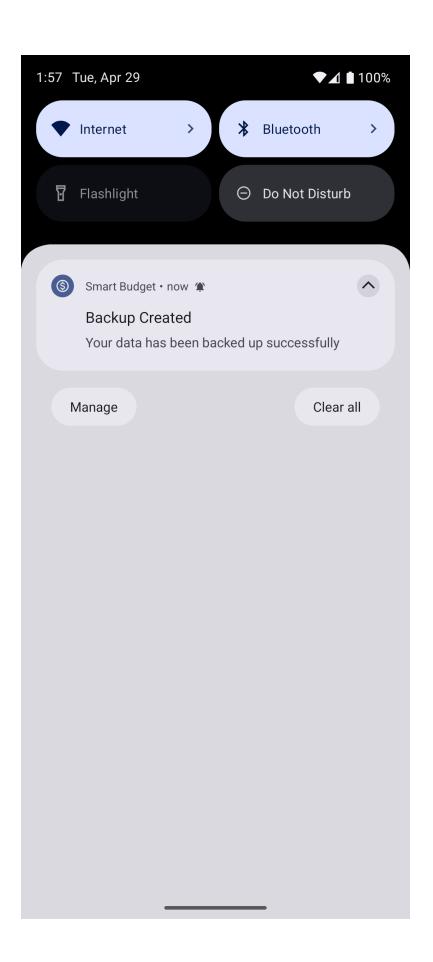


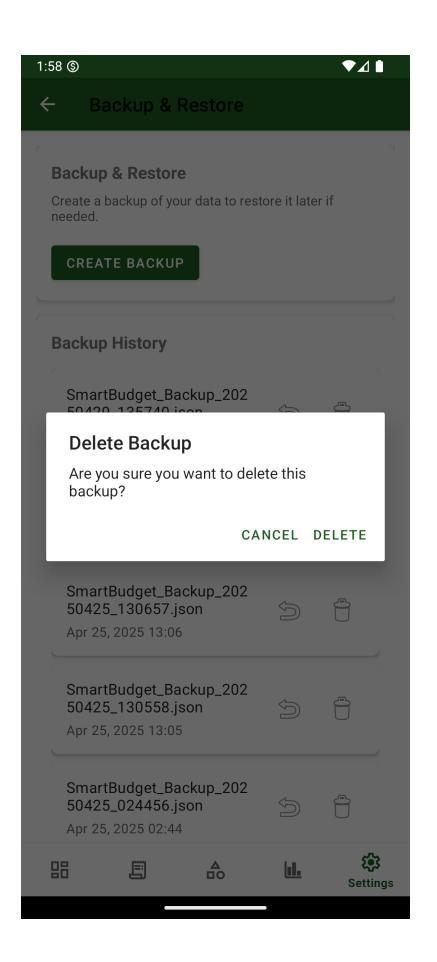


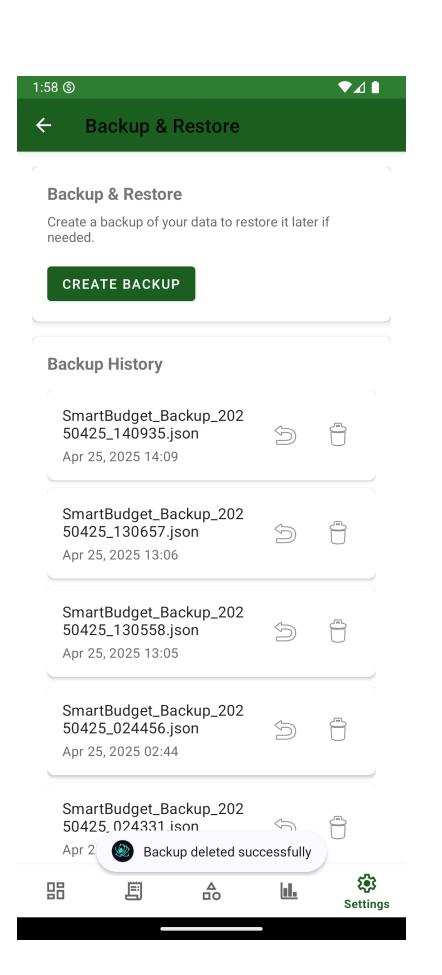


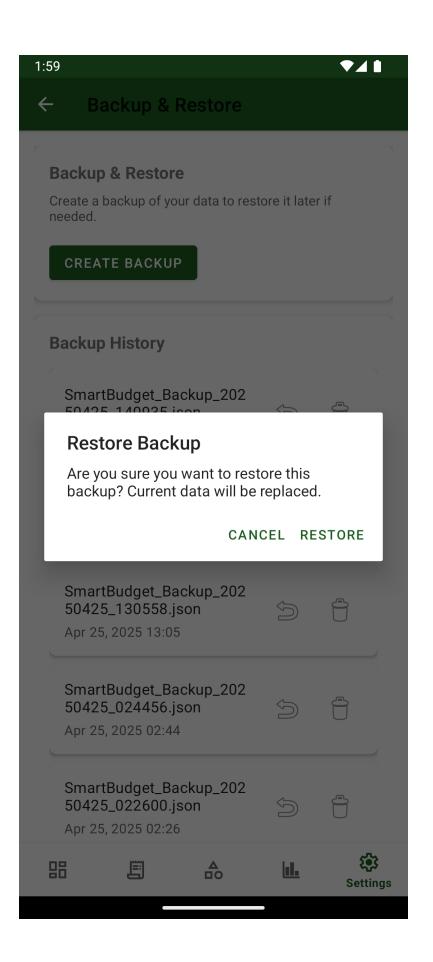


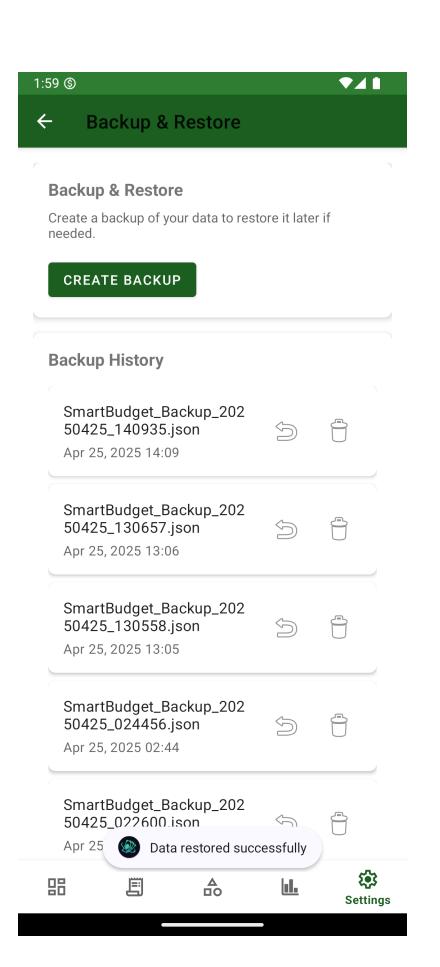


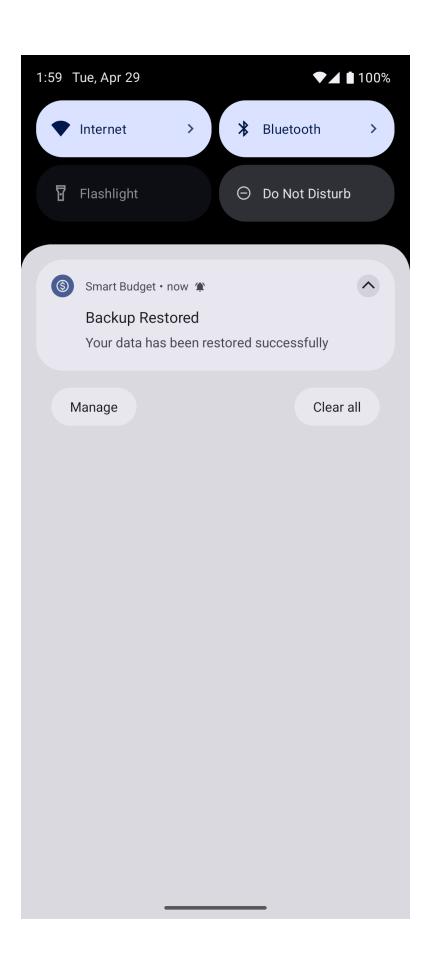


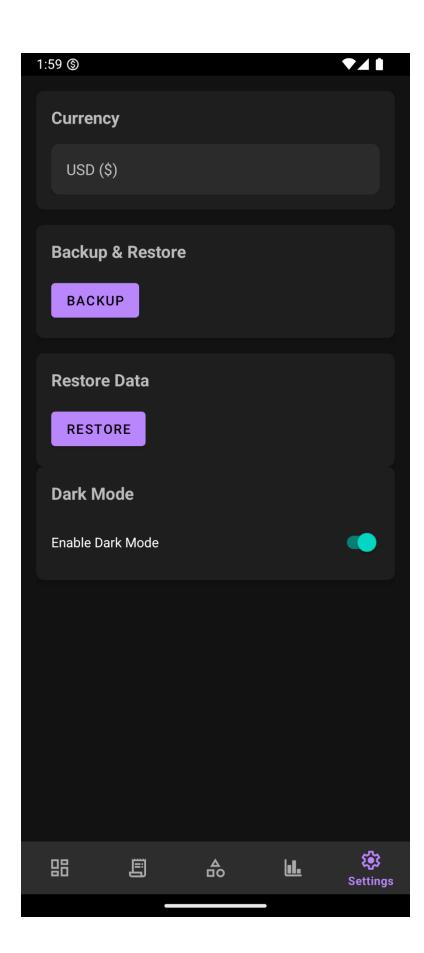


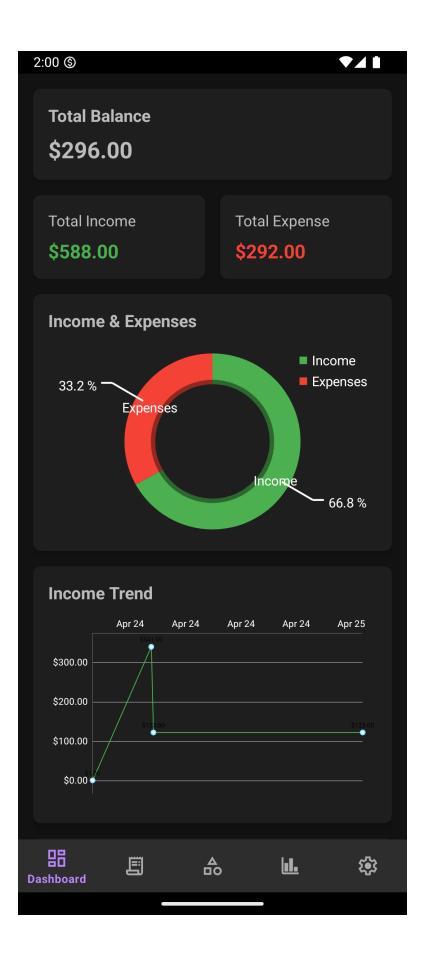


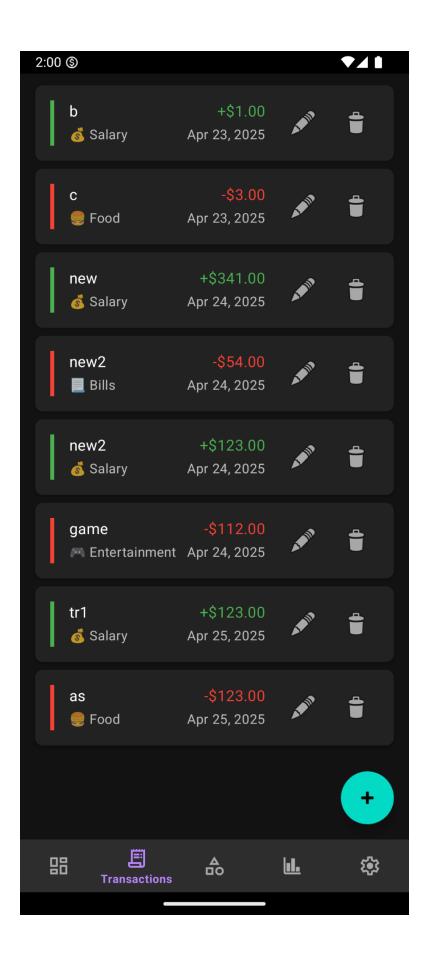


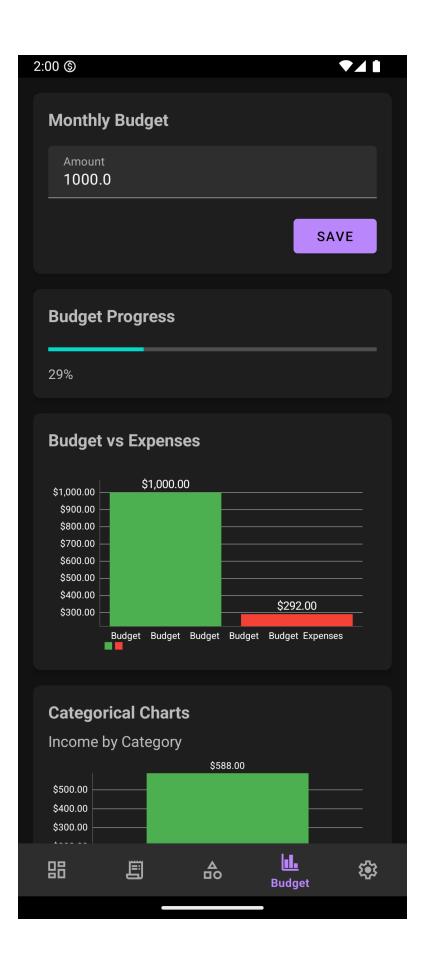


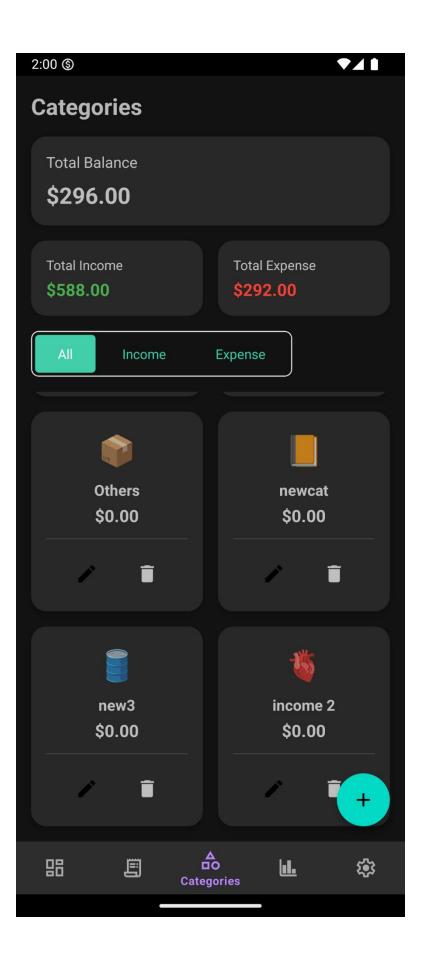










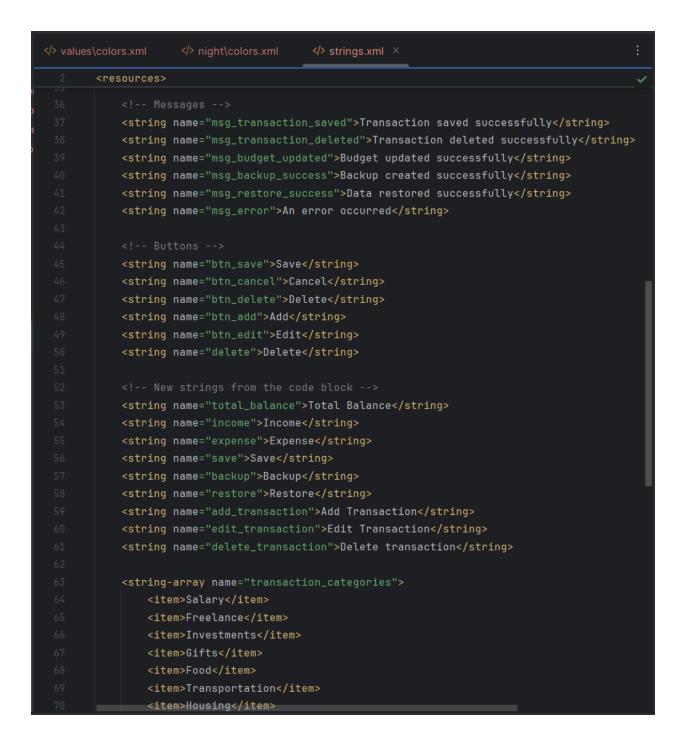


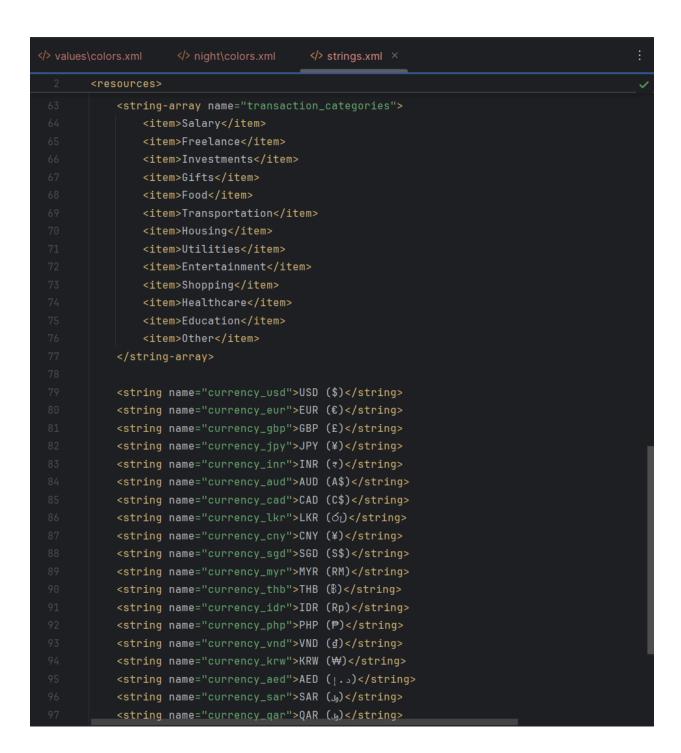


Content of xml files of Strings and Colors:

Strings

```
</>> strings.xml ×
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string name="app_name">Smart Budget</string>
    <string name="onboarding_image">Onboarding illustration/string>
    <string name="title_dashboard">Dashboard</string>
    <string name="title_transactions">Transactions</string>
    <string name="title_budget">Budget</string>
    <string name="title_settings">Settings</string>
    <string name="title_add_transaction">Add Transaction/string>
    <string name="title_edit_transaction">Edit Transaction/string>
    <!-- Transaction -->
    <string name="hint_title">Title</string>
    <string name="hint_amount">Amount</string>
    <string name="hint_category">Category</string>
    <string name="hint_date">Date</string>
    <string name="hint_type">Type</string>
    <string name="hint_currency">Select Currency</string>
    <string name="type_income">Income</string>
    <string name="type_expense">Expense</string>
    <string name="no_transactions">No transactions yet</string>
    <string name="hint_monthly_budget">Monthly Budget</string>
    <string name="budget_warning">Budget Warning: Less than 20% remaining</string>
    <string name="budget_exceeded">Budget Exceeded!</string>
    <string name="settings_currency">Currency</string>
    <string name="settings_backup">Backup & Restore</string>
    <string name="settings_restore">Restore Data</string>
    <string name="settings_notifications">Notifications/string>
```





```
strings.xml ×
<resources>
   <string-array name="transaction_categories">
        <item>Other</item>
    </string-array>
    <string name="currency_usd">USD ($)</string>
    <string name="currency_eur">EUR (€)</string>
    <string name="currency_gbp">GBP (£)</string>
    <string name="currency_jpy">JPY (\forall )</string>
    <string name="currency_inr">INR (₹)</string>
    <string name="currency_aud">AUD (A$)</string>
    <string name="currency_cad">CAD (C$)</string>
   <string name="currency_lkr">LKR (♂)</string>
   <string name="currency_cny">CNY (\(\xi\))</string>
    <string name="currency_sgd">SGD (S$)</string>
    <string name="currency_myr">MYR (RM)</string>
    <string name="currency_thb">THB (B)</string>
    <string name="currency_idr">IDR (Rp)</string>
    <string name="currency_php">PHP (₱)</string>
    <string name="currency_vnd">VND (d)</string>
    <string name="currency_krw">KRW (\(\forall )</string>
    <string name="currency_aed">AED (:.:)</string>
    <string name="currency_sar">SAR (اول)</string>
    <string name="currency_qar">QAR (المول)
    <string name="backup_description">Create a backup of your data to restore it later
    <string name="backup_history">Backup History</string>
    <string name="no_backups">No backups available</string>
    <string name="btn_create_backup">Create Backup</string>
    <string name="msg_backup_deleted">Backup deleted successfully</string>
</resources>
```

Colors

```
<?xml version="1.0" encoding="utf-8"?>
      <resources>
          <color name="purple_200">#FFBB86FC</color>
3
          <color name="purple_500">#FF6200EE</color>
          <color name="purple_700">#FF3700B3</color>
          <color name="teal_200">#FF03DAC5</color>
6
          <color name="teal_700">#FF018786</color>
          <color name="black">#FF000000</color>
8
9 🗆
          <color name="white">#FFFFFFF</color>
          <color name="green_500">#FF4CAF50</color>
10 ■
          <color name="red_500">#FFF44336</color>
          <color name="orange_500">#FFFF9800</color>
12 -
13
          <color name="card_background_light_green">#E8F9F5</color>
          <color name="chart_color_1">#FF6200EE</color>
17
          <color name="chart_color_2">#FF03DAC5</color>
          <color name="chart_color_3">#FF3700B3</color>
          <color name="chart_color_4">#FF018786</color>
20 ■
          <color name="chart_color_5">#FFBB86FC</color>
          <color name="dark_green">#1B5E20</color>
          <color name="dark_green_variant">#2E7D32</color>
          <color name="colorPrimary">@color/dark_green</color>
          <color name="colorAccent">#FF4081</color>
27 □
          <color name="background">#FFFFFF</color>
28
          <color name="surface">#FFFFFF</color>
          <color name="onBackground">#000000</color>
30
          <color name="onSurface">#000000</color>
31 ■
          <color name="income_green">#4CAF50</color>
32
          <color name="expense_red">#F44336</color>
          <color name="mint_green">#E8F9F5</color>
33
34
          <color name="light_mint">#E8F9F5</color>
          <color name="mint_accent">#40CFA9</color>
35 ■
```

```
</> values\colors.xml
                     </> night\colors.xml ×
       <?xml version="1.0" encoding="utf-8"?>
           <color name="purple_200">#FFBB86FC</color>
 3
           <color name="purple_500">#FF6200EE</color>
           <color name="purple_700">#FF3700B3</color>
           <color name="teal_200">#FF03DAC5</color>
 6
           <color name="teal_700">#FF018786</color>
           <color name="black">#FF000000</color>
           <color name="white">#FFFFFFF</color>
9
           <color name="green_500">#FF4CAF50</color>
10 ■
           <color name="red_500">#FFF44336</color>
12 -
           <color name="orange_500">#FFFF9800</color>
           <!-- Chart Colors -->
           <color name="chart_color_1">#FF6200EE</color>
16
           <color name="chart_color_2">#FF03DAC5</color>
           <color name="chart_color_3">#FF3700B3</color>
           <color name="chart_color_4">#FF018786</color>
           <color name="chart_color_5">#FFBB86FC</color>
19 

           <color name="colorPrimary">#90CAF9</color>
21
           <color name="colorAccent">#FF80AB</color>
22 \blacksquare
           <color name="background">#121212</color>
           <color name="surface">#1E1E1E</color>
25
           <color name="onBackground">#FFFFFF</color>
           <color name="onSurface">#FFFFFF</color>
26
       </resources>
```