

Trackify, Organize your finances

Sadiq Alhumood - Joseph Lee

Trackify - Smart Finance Tracker

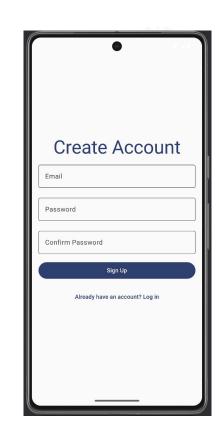
Trackify is a finance management app that helps users take control of their spending and saving habits. With features like transaction tracking and insightful charts, users can manage their finances effectively.

The Journey

Login Page

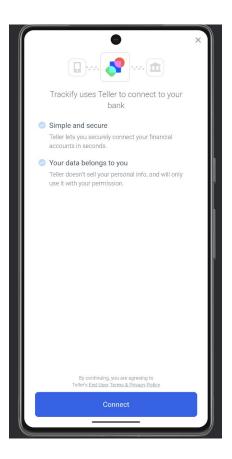
Firebase

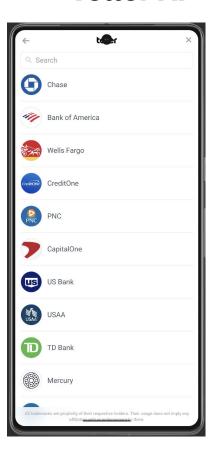
- Launches coroutine to perform Firebase Authentication
- On success, navigates to main screen
- Coroutines asynchronous programming in Kotlin
- Manage background tasks





Teller API Interface



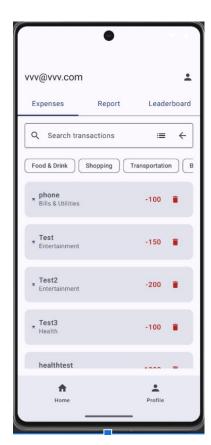


Teller Connect

- ConnectActivity class integrating Teller Connect
- Integrates Teller SDK for securely linking financial accounts
- Handles Teller Connect lifecycle events
- onSuccessRegistration saved accessToken in shared Preferences and Firestore (with the currently authenticated user)

TransactionViewModel to Fetch Transactions

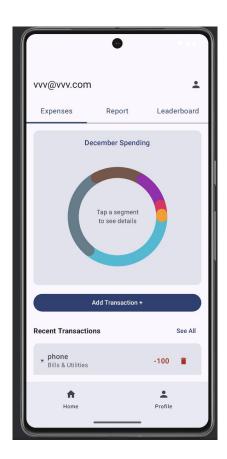
- Main feature fetch transaction data from Teller API
- Stores locally in Room database for offline functionality
- TellerAPI Service fetch account and transaction data
- State Management:
 - allTransactions list of all transactions
 - recentTransactions 3 most transactions
 - transactionTotals income, expenses total
- Helper functions such as updateTransactionLists for latest sync to transaction data



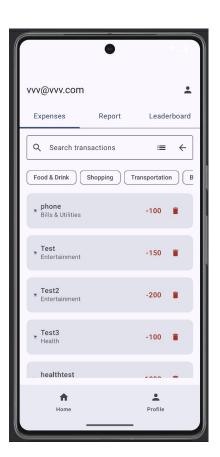
Pie Chart

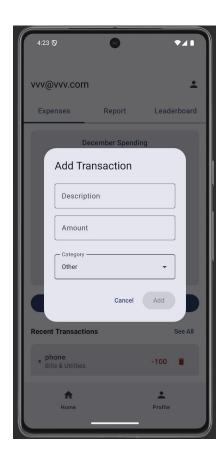
Compose Canvas

- Filters transactions by the current month
- Calculates total amount spent and categorizes the spending
- Canvas iterates through categoryData to draw each segment as arc
- pointerInput to detect touches upon touch, information on expenses, percentage spent on that category is displayed
- Called into the ExpensesScreen to display the chart



Transactions





- Technologies Used: Compose, Room, ViewModel, Flow.
- All Transactions: Displays a scrollable list of transactions.
- Real-Time Updates: Merges and observes manual and backend transactions.
- Add Transaction Button: Opens a dialog to capture and save transactions.

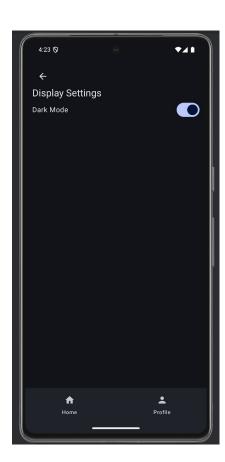
Report Page

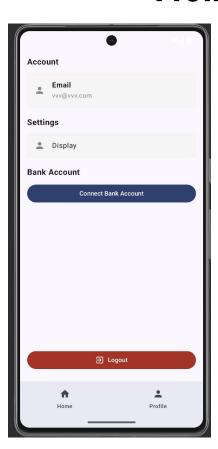
- Dynamic Period Selection: Users can toggle between weekly and monthly financial reports.
- Visual Financial Summary: Highlights total income, spending, and savings with color-coded UI.
- Data Source: Transactions are fetched from Room Database and computed live.
- Composable Components: Leverages LazyColumn, TabRow, and Card for interactive and modern UI.





Profile





- Profile Management:
- Display user email and account status.
- Connect bank account via external activity.
- logout with navigation back to the login page.
- Dark Mode Settings:
- Toggle between light and dark themes.
- Persistent theme preference stored using SharedPreferences.

Github Repo

- Final Code
- Final Report
- Final Presentation
 - This Presentation :)

Demo Time