

Sultan Qaboos University College of Science

Department of Computer Science

COMP4206 - Mobile Applications Development- Spring 2025

SpendaSaurus: Smart Budget Tracker

Part 1

Submitted to: Dr. Abdullah Al Hamdani

Member 1: Maryam Al'Obeidani (137875) Member 2: Al-Zahraa Al Abri (136364)

Date: 23rd March 2025

Table of Content

→ Project Overview and Objectives	3
Overview	3
Objectives	3
→ Target Audience and Stakeholders	3
User identification	3
Interviews	4
→ Comparative Analysis of Similar Mobile Applications / Websites	5
1- Al Masareef	5
2- YNAB (You Need a Budget)	5
Comparisons between similar apps and Spendasaurus	6
→ Application Features and Functionalities	7
1. Expense and Income Tracking	7
2. Budget Setting and Tracking	7
3. Financial Reports and Analytics	8
4. Quick Transaction Entry	8
→ Mobile Application Logo Design	9
→ Application Screen Design and Description	10
1. Home Screen	10
2. Add Transaction Screen	11
3. Budget Overview Screen	12
4. Reports Screen	13
5. Settings Screen	14
→ Database Design and Data Management	15
Types of Data Managed	15
Database Schema & Sample Data	15
1. Users Table	15
2. Transactions Table	16
3. Budgets Table	16
Data Exchange	17
Security Measures	17
Part B: Console Dart and Flutter mobile app implementation	18
ightarrow Console based dart application	18
ightarrow Flutter based mobile application	
Contribution Table	35

→ Project Overview and Objectives

Overview

Spendasaurus is a budget tracking app that makes it simple for users to control their spending and stick to their spending plans in a smart way using a captivating design that makes money management less daunting and more approachable for all.

Spendasaurus gives customers the ability to easily manage their finances with its user-friendly features, which include goal setting tools, spending analytics, and expense categorization. To help users stay on target, the app provides personalized budget recommendations, and encouraging reminders.

For students, shopaholics, and money-spending addicts, this app can be a great financial guide. Since everything is expensive, from food to stationary to subscriptions, people need an app to manage their spending effectively. For this reason, we developed this app to help address this problem.

Objectives

- 1. Track daily income & expenses.
- 2. Set budget goals & track progress.
- 3. Generate visual financial reports.
- 4. Generate financial plans as a guide.
- 5. Categorize transactions and spends.
- 6. Offer secure authentication.
- 7. Support multi-device synchronization.

→ Target Audience and Stakeholders

User identification

Spendasaurus is made for people and companies who want a fun and simple approach to keep an eye on their spending plans. The following are the main user groups:

- Students and young people: Who are learning financial responsibility, tracking allowances, and managing tight budgets.
- **Families:** To keep track of spendings and stick to spending limitations, households want a shared budgeting tool.
- Small business owners and independent contractors: These individuals must effectively distinguish between their personal and professional expenses.

Interviews

Stakeholder Interview 1: University Student

Interviewer: Currently, how do you handle your finances?

Student: I just manually check my bank account balance, that's it.

Interviewer: What difficulties do you face?

Student: My income is inconsistent since I spend a lot of money on entertainment and food.

Interviewer: Would overspending alerts be beneficial? Student: Sure, as long as they're not bothersome.

Interviewer: What characteristics might lead you to use an app for budgeting? Student: An enjoyable experience that also provides spending categories.

Interviewer: Is it useful to have financial goals?

Student: Indeed! I would be motivated to track my savings for a vacation or a device.

Interviewer: I appreciate your insights. Thank you for your time.

Student: You're welcome.

Stakeholder Interview 2: Small Business Owner

Interviewer: How do you manage your money?

Business Owner: A business spreadsheet plus an app for personal spending.

Interviewer: What are the biggest obstacles you face?

Business Owner: It takes a lot of time to manually track and separate company from personal

costs.

Interviewer: Would it be beneficial to be able to categorize expenses?

Business Owner: Definitely! Time would be greatly saved.

Interviewer: How are financial records reviewed?

Business Owner: For taxes, I require exportable reports and monthly summaries.

Interviewer: Would financial insights be helpful?

Business Owner: Definitely, but they must be clear and simple.

Interviewer: Fantastic! Reports, and unambiguous insights will be our main priorities. I

appreciate your time.

Business Owner: Anytime!

→ Comparative Analysis of Similar Mobile Applications / Websites

1- Al Masareef

- Structure:

It's a personal expense management application, specifically for users that speak Arabic, it helps in tracking daily expenses, allowing users to categorize them, and help them manage their debts. Furthermore, it supports data synchronization using Google Drive to provide additional privacy and data security.

- Main features:

- 1. Easy to use interface.
- 2. Monthly budgeting for different categories.
- 3. Debt tracking.
- 4. Time based financial reports.

- Limitations:

- 1. Designed for Arabic-speaking users only in which it limits the accessibility.
- 2. Limited financial planning tools.

- Reference:

AppsQueue. (n.d.). Al-Masareef. Retrieved from https://appsqueue.com/

2- YNAB (You Need a Budget)

- Structure:

This application highlights a proactive budgeting process that inspires users to allocate every dollar a job, with manual tracking and financial planning tools it serves as a good budgeting tracking app.

- Main features:

- 1. Goal based budgeting.
- 2. Synchronization across various devices.
- 3. Financially educating resources.

- Limitations:

- 1. The app is based on subscription that forms a challenge for financially tight users.
- 2. Using this application requires a bit harder learning journey.

- Reference:

Forbes. (2025). *Best Budgeting Apps of 2025*. Retrieved from https://www.forbes.com/advisor/banking/best-budgeting-apps/

Comparisons between similar apps and Spendasaurus

Feature	Al Masareef	YNAB	Spendasaurus
Budget inserting	Manual	Manual	Manual (with Al tracking)
User friendly interface	Simple interface	Requires learning	Fun and simple interface
Using cost	Free	Paid (as a subscription)	Free
Goal tracking	Financial goal tracking	Detailed plan	Smart tracking using Al
Financial insights	Basic reports	Manual planning	Simple , easy to digest insights
Language	Arabic	English	English

Improvements in Spendasaurus:

- Simple and fun user experience that doesn't require complex learning and helps engage the user in budgeting in an effective way.
- A Free app that anyone can use , without disturbance of advertisements and the hassle of subscriptions.
- Provides easy-to-understand financial insights.
- Uses English as a language since it's a universal language that most people use or know.

→ Application Features and Functionalities

1. Expense and Income Tracking

- Functionality:

Users are allowed to log their daily expenses incurred and income earned, categorize the transactions, generate a financial plan, and check the overall balance.

- Objective Alignment:

The feature directly supports the app's main purpose of helping users in managing their finances by providing real-time tracking of their spending and earning activities. It addresses the importance of monitoring cash flow to the users, which is essential for budgeting.

Stakeholder Need:

The intended users-those on a tight budget-with easy methods for logging and categorizing their expenses and income would be facilitated in particular in analyzing their spending patterns.

2. Budget Setting and Tracking

- Functionality:

This app allows users to set monthly or category-specific budgets and track their spending progress visually by means of progress bars.

- Objective Alignment:

Budget setting is central to the app's mission, which is to help users manage their finances. Tracking ensures that users stay within their budget limits, thereby helping them deal responsibly with their finances.

- Stakeholder Need:

Users who want to stick to a budget will find this feature helpful, as it provides clear goals and visual progress, motivating them to control spending and avoid overspending.

3. Financial Reports and Analytics

- Functionality:

The users can see detailed financial reports using charts and graphs, such as pie charts for spending breakdowns and bar charts for comparison of income against expenditures.

- Objective Alignment:

This functionality provides users with insights into their spending patterns, income sources, and areas of potential improvement. Viewing financial data assists in putting one's financial health in perspective and analyzing it, which is aligned with creating informed decision-making.

Stakeholder Need:

For potential investors or financial savers, or for people with limited budgets, knowledge of changes in the financial status and cash flow over the long-term becomes suitable.

4. Quick Transaction Entry

- Functionality:

The app allows for a simple and a fast way to add income or expense entries including category selection, amount input with notes, and way more.

- Objective Alignment:

Easy transaction logging backs the objective of the app as a utility for users that is easy and fast in managing their finances. It facilitates the assurance of transaction recording by the users without any hassles.

- Stakeholder Need:

This feature is useful for busy people who need a simple and quick way to record transactions, so as to save time and make sure that records are accurate.

→ Mobile Application Logo Design

- Elements and shapes:

The logo has a green background to reinforce the money theme, also it features a green T-Rex holding a money bill to symbolize financial management in a fun approachable way. The hat, glasses, and tie are elements added to enhance the feeling of responsibility and sophistication. In addition to that the shapes are designed in a rounded, adorable, friendly look to make the app more approachable.

- Colours:

In regards to colors, the green is used mostly since it's widely associated with money, wealth, and growth, that aligns with the app purpose. Additionally, the black is used to add a sense of professionalism, stability and trust, while the red and yellow, clear shade of blue is used to add contrast to the logo.

- Typography:

The Font used in the text should complement the logo and meet the app's goals, it should be modern, bold but slightly playful to add a fun touch, for example fonts like Poppins or Nunito can be used.

These logo design elements align with the core values of the application, since the colors and shapes will help in providing an enjoyable and stress free budgeting experience, it encourages financial responsibility, and gives the sense of a trustworthy user friendly application.

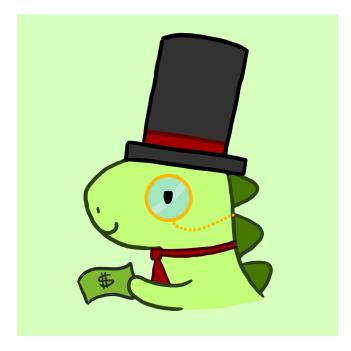


Figure 1: Spendasaurus app logo

→ Application Screen Design and Description

1. Home Screen

The Home Screen acts as your financial dashboard, giving you a clear overview of your current financial status. You can quickly see your total income, expenses, and remaining budget in the **Balance Overview**. The **Recent Transactions** section shows the latest entries of your spending and earnings, keeping you updated. There are also **Quick Action** buttons for easily adding new transactions or viewing detailed reports.

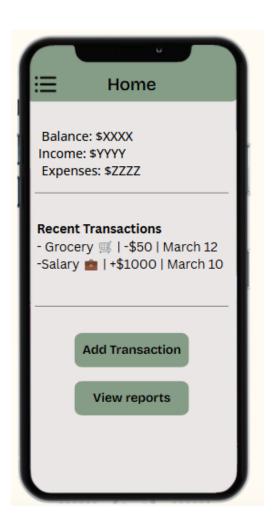


Figure 2: Home Screen page design

2. Add Transaction Screen

The Add Transaction Screen makes it simple to log your income or expenses. You can quickly enter the amount you've earned or spent in the **Amount Field**, then choose a category such as Food, Rent, or Salary using the **Category Selector**. The **Date Picker** lets you select when the transaction occurred, and the **Notes Field** gives you space to add any additional details. Once everything's filled out, hit the **Save Button** to record the transaction.

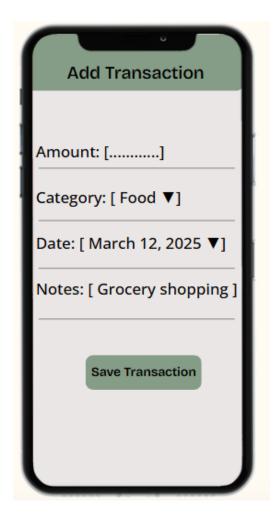


Figure 3: Add Transaction page design

3. Budget Overview Screen

The Budget Overview Screen helps you set and track your spending limits for the month. You can define your overall spending limit with the **Monthly Budget Setting**, and then view or manage the budget for specific categories like groceries or entertainment in the **Category Budgets** section. The **Progress Bars** show how much you've already spent in each category, keeping you on track. If you need to make adjustments, simply tap the **Edit Button** to modify your budget settings.

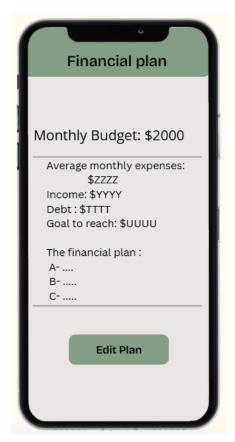


Figure 4: Budget Overview page design

4. Reports Screen

The Reports Screen provides an easy way to visualize your financial trends through charts and graphs. The **Pie Chart** breaks down your spending by category, giving you a clear picture of where your money is going. The **Bar Chart** compares your income versus expenses over time, helping you spot trends. You can use the **Filter Options** to select different data ranges, such as weekly, monthly, or yearly. And if you need a copy of your report, the **Export Button** lets you generate a downloadable version.



Figure 5: Reports Screen page design

5. Settings Screen

The Settings Screen is where you can customize your app experience and adjust security settings. Here, you can view your **User Profile**, including your username and email. The **Currency Selector** lets you pick your preferred currency for all financial entries. If you prefer a darker interface, the **Dark Mode Toggle** allows you to switch between light and dark modes. To enhance security, you can set a PIN or enable **Biometric Authentication**. Finally, the **Logout Button** lets you sign out of the app when you're done.

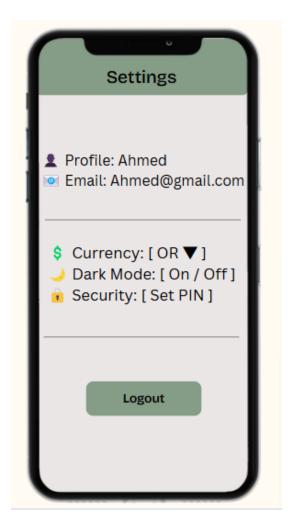


Figure 6: Settings Screen page design

→ Database Design and Data Management

Types of Data Managed

The Smart Budget Tracker app manages several key types of data to help users stay on top of their finances.

User Data: This includes personal information such as user profiles, authentication credentials, and individual preferences. It ensures that each user has a personalized experience, from login details to tailored settings.

Transaction Data: The app keeps a detailed record of all income and expenses, including categories for each transaction and the corresponding timestamps. This helps users track their spending habits and manage their finances effectively.

Budget Data: Users can set monthly budget limits and define spending caps for specific categories. This data is crucial for staying within financial boundaries and ensuring that users can track their progress toward meeting their budgeting goals.

Database Schema & Sample Data

1. Users Table

Column Name	Data Type	Description
user_id	INT (Primary Key)	Unique user ID
name	VARCHAR(50)	User's full name
email	VARCHAR(100) (Unique)	User's email
password_hash	VARCHAR(255)	Hashed password
currency	VARCHAR(10)	User's preferred currency

Sample Data:

user_id	name	email	password_hash	currency
1	Ahmed	Ahmed@gmail.com	\$2y\$10\$abcd1234	OR

2. Transactions Table

Column Name	Data Type	Description
transaction_id	INT (Primary Key)	Unique transaction ID
user_id	INT (Foreign Key)	Links to Users table
amount	DECIMAL(10,2)	Transaction amount
category	VARCHAR(50)	Category (e.g., Food, Rent)
type	ENUM ('income', 'expense')	Transaction type
date	DATE	Transaction date
notes	TEXT (Optional)	Additional details

Sample Data:

transaction_id	user_id	amount	category	type	date	notes
101	1	50.00	Food	expense	2025-03-12	Grocery shopping
102	1	1000.00	Salary	income	2025-03-10	March salary

3. Budgets Table

Column Name	Data Type	Description
budget_id	INT (Primary Key)	Unique budget ID
user_id	INT (Foreign Key)	Links to Users table
category	VARCHAR(50)	Budget category
amount	DECIMAL(10,2)	Allocated budget amount
start_date	DATE	Budget start date
end_date	DATE	Budget end date

Sample Data:

budget_id	user_id	category	amount	start_date	end_date
201	1	Food	500.00	2025-03-01	2025-03-31
202	1	Rent	800.00	2025-03-01	2025-03-31

Data Exchange

The Smart Budget Tracker app relies on either Firebase or an SQL database to store and manage user information securely. Data is exchanged between the app and the database using REST APIs or GraphQL, ensuring smooth and efficient communication. To optimize data transmission, the app uses JSON format, which is lightweight and efficient, allowing quick and reliable communication between the app and backend systems.

Security Measures

Several security protocols are in place to protect user data. User passwords are hashed using bcrypt, making it nearly impossible for attackers to retrieve original credentials. JWT (JSON Web Tokens) authentication ensures secure login sessions, minimizing unauthorized access. All data exchanges are protected by SSL (Secure Sockets Layer) encryption, securing data transmission against potential interception. Additionally, Role-Based Access Control (RBAC) limits access to sensitive actions based on user roles, ensuring that only authorized users can perform specific tasks. For enhanced security, biometric authentication, such as fingerprint or facial recognition, is integrated, providing users with a seamless and secure way to access the app.

Part B: Console Dart and Flutter mobile app implementation

→ Console based dart application

The Smart Budget Tracker is a Dart-based console application designed to help users easily manage their personal finances. It allows users to create profiles, track their income and expenses, and set up budgets—all through a simple text-based menu.

The app is built using object-oriented programming with three main classes: User, Transaction, and Budget. Each transaction is categorized as either income or expense using an enum, making it easier to analyze and sort later on.

Users can:

- > Add and view their personal profiles.
- > Log financial transactions with categories, notes, and dates.
- > Set budgets for specific categories over a defined time period.
- > Update or delete existing transactions.
- > Search and filter records to find specific transactions or users.
- View all transactions related to a user.
- > Get a guick summary of total income and expenses.

All records are stored in memory using Dart's List data structure, and each entry is given a randomly generated ID for easy reference. The app also checks for valid inputs and gives clear feedback to guide the user through each step.

Overall, this console application provides the essential tools for basic budget tracking and fulfills the requirements outlined in Part A of the project. It's a solid starting point for building more advanced mobile or graphical versions in the future.

```
==== Smart Budget Tracker Console App =====
```

- 1- Add User
- 2- Display Users
- 3- Add Transaction
- 4- Display Transactions
- 5- Add Budget
- 6- Display Budgets
- 7- Delete Transaction
- 8- Update Transaction
- 9- View Transactions by User
- 10- Calculate Income & Expenses Summary
- 11- Search User by Name
- 12- Filter Transactions by Category
- 13- Exit

Enter name: alaa

Enter email: alaa@gmail.com

Enter currency: OR

User added successfully with ID: 56

```
==== Smart Budget Tracker Console App =====
1- Add User
2- Display Users
3- Add Transaction
4- Display Transactions
5- Add Budget
6- Display Budgets
7- Delete Transaction
8- Update Transaction
9- View Transactions by User
10- Calculate Income & Expenses Summary
11- Search User by Name
12- Filter Transactions by Category
13- Exit
Choose an option: 2
User ID: 56, Name: alaa, Email: alaa@gmail.com, Currency: OR
```

```
==== Smart Budget Tracker Console App =====
1- Add User
2- Display Users
3- Add Transaction
4- Display Transactions
5- Add Budget
6- Display Budgets
7- Delete Transaction
8- Update Transaction
9- View Transactions by User
10- Calculate Income & Expenses Summary
11- Search User by Name
12- Filter Transactions by Category
13- Exit
Choose an option: 3
Enter User ID: 56
Enter amount: 200
Enter category: food
Enter type (income/expense): expense
Enter date (YYYY-MM-DD): 2025-04-05
Enter optional notes: Ramadan
Transaction added successfully with ID: 9778
```

```
==== Smart Budget Tracker Console App =====
1- Add User
2- Display Users
4- Display Transactions
5- Add Budget
6- Display Budgets
9- View Transactions by User
10- Calculate Income & Expenses Summary
11- Search User by Name
12- Filter Transactions by Category
Choose an option: 4
ID: 9778, User: 56, Amount: 200.0, Category: food, Type: expense, Date: 2025-04-05 00:00:00.000, Notes: Ramadan
===== Smart Budget Tracker Console App =====
1- Add User
2- Display Users
3- Add Transaction
4- Display Transactions
5- Add Budget
6- Display Budgets
7- Delete Transaction
8- Update Transaction
9- View Transactions by User
```

10- Calculate Income & Expenses Summary

Enter start date (YYYY-MM-DD): 2025-04-08

Enter end date (YYYY-MM-DD): 2025-04-15

Budget added successfully with ID: 3293

12- Filter Transactions by Category

11- Search User by Name

Choose an option: 5

Enter category: food

Enter budget amount: 300

Enter User ID: 56

13- Exit

```
===== Smart Budget Tracker Console App =====

1- Add User

2- Display Users

3- Add Transaction

4- Display Transactions

5- Add Budget

6- Display Budgets

7- Delete Transaction

8- Update Transaction

9- View Transactions by User

10- Calculate Income & Expenses Summary

11- Search User by Name

12- Filter Transactions by Category

13- Exit

Choose an option: 6
```

```
==== Smart Budget Tracker Console App =====
1- Add User
2- Display Users
3- Add Transaction
4- Display Transactions
5- Add Budget
6- Display Budgets
7- Delete Transaction
8- Update Transaction
9- View Transactions by User
10- Calculate Income & Expenses Summary
11- Search User by Name
12- Filter Transactions by Category
13- Exit
Choose an option: 3
Enter User ID: 56
Enter amount: 100
Enter category: shopping
Enter type (income/expense): expense
Enter date (YYYY-MM-DD): 2025-04-06
Enter optional notes: Eid
Transaction added successfully with ID: 6202
```

```
==== Smart Budget Tracker Console App =====
```

- 1- Add User
- 2- Display Users
- 3- Add Transaction
- 4- Display Transactions
- 5- Add Budget
- 6- Display Budgets
- 7- Delete Transaction
- 8- Update Transaction
- 9- View Transactions by User
- 10- Calculate Income & Expenses Summary
- 11- Search User by Name
- 12- Filter Transactions by Category
- 13- Exit

Enter Transaction ID to delete: 6202

Transaction deleted successfully.

```
===== Smart Budget Tracker Console App =====
1- Add User
2- Display Users
3- Add Transaction
4- Display Transactions
5- Add Budget
6- Display Budgets
7- Delete Transaction
8- Update Transaction
9- View Transactions by User
10- Calculate Income & Expenses Summary
11- Search User by Name
12- Filter Transactions by Category
13- Exit
Choose an option: 8
Enter Transaction ID to update: 9778
New amount (leave blank to keep '200.0'):
New category (leave blank to keep 'food'): shopping
New type (income/expense, leave blank to keep 'expense'): income
New date (YYYY-MM-DD, leave blank to keep current):
New notes (leave blank to keep existing):
Transaction updated successfully.
```

```
==== Smart Budget Tracker Console App =====
1- Add User
2- Display Users
3- Add Transaction
4- Display Transactions
5- Add Budget
6- Display Budgets
9- View Transactions by User
10- Calculate Income & Expenses Summary
11- Search User by Name
Choose an option: 9
Enter User ID to view transactions: 56
ID: 9778, User: 56, Amount: 200.0, Category: shopping, Type: income, Date: 2025-04-05 00:00:00.000, Notes: Ramadan
==== Smart Budget Tracker Console App =====
1- Add User
2- Display Users
3- Add Transaction
4- Display Transactions
5- Add Budget
6- Display Budgets
7- Delete Transaction
```

8- Update Transaction

11- Search User by Name

Choose an option: 10

13- Exit

9- View Transactions by User

Financial Summary for alaa:

Total Income: 200.00 OR

Total Expenses: 0.00 OR

10- Calculate Income & Expenses Summary

Enter User ID to calculate summary: 56

12- Filter Transactions by Category

```
==== Smart Budget Tracker Console App =====
1- Add User
2- Display Users
3- Add Transaction
4- Display Transactions
5- Add Budget
6- Display Budgets
7- Delete Transaction
8- Update Transaction
9- View Transactions by User
10- Calculate Income & Expenses Summary
11- Search User by Name
12- Filter Transactions by Category
13- Exit
Choose an option: 11
Enter part of username to search: \alpha
Matching users:
User ID: 56, Name: alaa, Email: alaa@gmail.com, Currency: OR
```

```
==== Smart Budget Tracker Console App =====
1- Add User
2- Display Users
3- Add Transaction
4- Display Transactions
5- Add Budget
6- Display Budgets
7- Delete Transaction
8- Update Transaction
9- View Transactions by User
10- Calculate Income & Expenses Summary
11- Search User by Name
12- Filter Transactions by Category
13- Exit
Choose an option: 12
Enter category to filter: food
No transactions found for category 'food'.
```

```
===== Smart Budget Tracker Console App =====

1- Add User
2- Display Users
3- Add Transaction
4- Display Transactions
5- Add Budget
6- Display Budgets
7- Delete Transaction
8- Update Transaction
9- View Transactions by User
10- Calculate Income & Expenses Summary
11- Search User by Name
12- Filter Transactions by Category
13- Exit
Choose an option: 12
Enter category to filter: shopping
Transactions in category 'shopping':
ID: 9778, User: 56, Amount: 200.0, Category: shopping, Type: income, Date: 2025-04-05 00:00:00.000, Notes: Ramadan
```

```
==== Smart Budget Tracker Console App =====
```

- 1- Add User
- 2- Display Users
- 3- Add Transaction
- 4- Display Transactions
- 5- Add Budget
- 6- Display Budgets
- 7- Delete Transaction
- 8- Update Transaction
- 9- View Transactions by User
- 10- Calculate Income & Expenses Summary
- 11- Search User by Name
- 12- Filter Transactions by Category
- 13- Exit

Error: Invalid choice, try again.

```
==== Smart Budget Tracker Console App =====
```

- 1- Add User
- 2- Display Users
- 3- Add Transaction
- 4- Display Transactions
- 5- Add Budget
- 6- Display Budgets
- 7- Delete Transaction
- 8- Update Transaction
- 9- View Transactions by User
- 10- Calculate Income & Expenses Summary
- 11- Search User by Name
- 12- Filter Transactions by Category
- 13- Exit

Error: Invalid choice, try again.

```
==== Smart Budget Tracker Console App =====
```

- 1- Add User
- 2- Display Users
- 3- Add Transaction
- 4- Display Transactions
- 5- Add Budget
- 6- Display Budgets
- 7- Delete Transaction
- 8- Update Transaction
- 9- View Transactions by User
- 10- Calculate Income & Expenses Summary
- 11- Search User by Name
- 12- Filter Transactions by Category
- 13- Exit

No transactions available to delete.

```
===== Smart Budget Tracker Console App =====

1- Add User

2- Display Users

3- Add Transaction

4- Display Transactions

5- Add Budget

6- Display Budgets

7- Delete Transaction
```

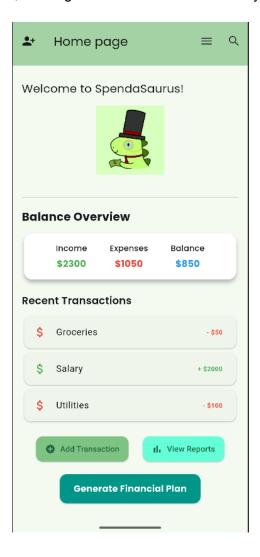
- 8- Update Transaction9- View Transactions by User
- 10- Calculate Income & Expenses Summary
- 11- Search User by Name
- 12- Filter Transactions by Category
- 13- Exit

Exit...

→ Flutter based mobile application

Spendasaurus is a fun yet useful mobile application designed with Flutter to make money management easier for users. The app's bright UI, which draws inspiration from a green T-Rex mascot, is intended to make budgeting feel more like a game than a burden. A vibrant summary of the user's financial situation, including total income, expenses, and current balance, is displayed on the main screen in a tidy, contemporary design. Users can instantly check their most recent financial activities thanks to the page's recent transactions section.

Users can create a customized financial plan, receive comprehensive financial data, and add new transactions using interactive buttons. With reusable components, responsive layouts, and themed typography utilizing the Poppins font for a simple and approachable look, the code is organized around Flutter's Material Design. Spendasaurus is both practical and enjoyable to use because of its scrollable layout, which guarantees seamless usability across devices.



Contribution Table

Name	Contribution
Maryam	Report - flutter based mobile application
Al-Zahraa	Report - console dart base application