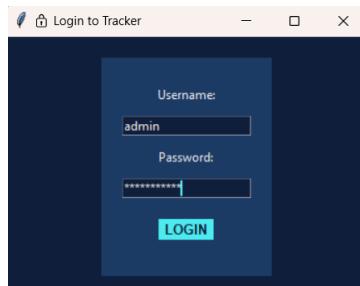


EXPENSES MANAGEMENT TRACKER

- The purpose of the Expense Management System is to provide users with a secure, organized, and user-friendly platform for recording and analyzing their monthly expenses. Through its Tkinter graphical interface and SQLite database, the system allows users to conveniently add, edit, and delete transactions while keeping their financial records accurate and up to date. It categorizes expenses into food, transportation, utilities, shopping, and others to help users easily monitor where their money goes each month. The system also offers visual representations of spending patterns through graphs, enabling users to clearly identify trends and make informed financial decisions. With built-in password hashing and reliable data storage, the system ensures both privacy and long-term accessibility of user information. Overall, it helps individuals better understand their financial behavior and promotes responsible money management.

GUI OF EXPENSES MANAGEMENT TRACKER

LOG-IN WINDOW – for security of the tracker



The screenshot displays the Expenses Management Tracker application interface. On the left, the 'Data Entry (Bills & Monthly Total)' section includes fields for 'Month (YYYY-MM)', 'Water Bill (₱)', 'Electricity Bill (₱)', and 'Categorized Spending Total (Read-Only)'. It features buttons for 'SAVE EXPENSES', 'UPDATE RECORD', 'CLEAR FIELDS', 'DELETE SELECTED', and 'LOGOUT'. On the right, the 'Monthly Costs (Select a Month to Update)' section shows a table of monthly expenses categorized by Water, Electricity, Others, and Total. Below this is a 'Trend Analysis' chart titled 'Total Monthly Expenses Trend' showing the fluctuation of total monthly expenses from January to November 2025.

Month	Water	Electricity	Others	TOTAL
2025-11	₱565.00	₱3,433.87	₱11,300.00	₱15,298.87
2025-10	₱678.09	₱3,213.78	₱12,800.00	₱16,691.87
2025-09	₱650.00	₱3,321.09	₱11,700.00	₱15,671.09
2025-08	₱710.00	₱3,432.10	₱12,370.00	₱16,512.10
2025-07	₱600.00	₱3,687.88	₱11,670.00	₱15,957.88
2025-06	₱670.32	₱3,610.91	₱10,998.00	₱15,379.23
2025-05	₱630.00	₱4,431.42	₱12,732.00	₱17,793.42
2025-04	₱650.00	₱3,368.31	₱11,275.00	₱15,293.31
2025-03	₱710.00	₱2,596.77	₱10,775.00	₱14,081.77
2025-02	₱590.00	₱2,004.79	₱11,975.00	₱14,569.79

Data Entry (Bills & Monthly Total)

Month (YYYY-MM): 2025-11

Water Bill (₱): [redacted]

Electricity Bill (₱): [redacted]

Categorized Spending Total (Read-Only): 11300.00 Manage Spending

DATA ENTRY: inputting the *Month, Water Bills, Electricity Bills, and Categorized Spending Total*

The screenshot shows a mobile application interface for managing expenses. At the top, there's a header for "Manage Other Expenses for 2025-11". Below it is a modal window titled "+ Add New Transaction" with fields for Category (Food & Groceries), Description, and Amount (₱). A large blue button at the bottom right says "SAVE NEW TRANSACTION". To the right of the modal is a table titled "Existing Transactions (Select to Edit)" with columns for ID, Category, Description, and Amount. The table contains four rows of data. At the bottom left is a summary bar with a blue background containing the text "Categorized Spending Total (Read-Only): 11300.00" and a green "Manage Spending" button. A callout box points from the "Manage Spending" button to a note below it: "shows total amount of other expenses".

TRANSACTIONS TABLE (Monthly Costs) – to read/ see the data transactions by month

Monthly Costs (Select a Month to Update)

Month	Water	Electricity	Others	TOTAL
2025-11	₱565.00	₱3,433.87	₱11,300.00	₱15,298.87
2025-10	₱678.09	₱3,213.78	₱12,800.00	₱16,691.87
2025-09	₱650.00	₱3,321.09	₱11,700.00	₱15,671.09
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2025-03	₱710.00	₱2,596.77	₱10,775.00	₱14,081.77
2025-02	₱590.00	₱2,004.79	₱11,975.00	₱14,569.79

Save Expenses

SAVING EXPENSES BUTTON: its function is to create/ save the data directly to the database (*sqlite*). You read/ see the transactions at the table.

Update Record

UPDATE RECORD BUTTON: its function is to update the existing data. To update the record, you need to choose a month in the transactions table that you want to update and tap it. The existing data is automatically appears on the data entry to update. If you are finish updating the data, you may tap the button to update it.

 **CLEAR FIELDS**

CLEAR FIELDS BUTTON: its function is to clear the fields of the data entry to start another transaction.



DELETE SELECTED

DELETE SELECTED BUTTON: its function is to delete a specific transaction. To delete a specific transaction, you need choose first a month in the transactions table that you want to delete and tap it. Then tap the button to delete it.

 **LOGOUT**

LOG-OUT BUTTON: its function is to log-out the system.



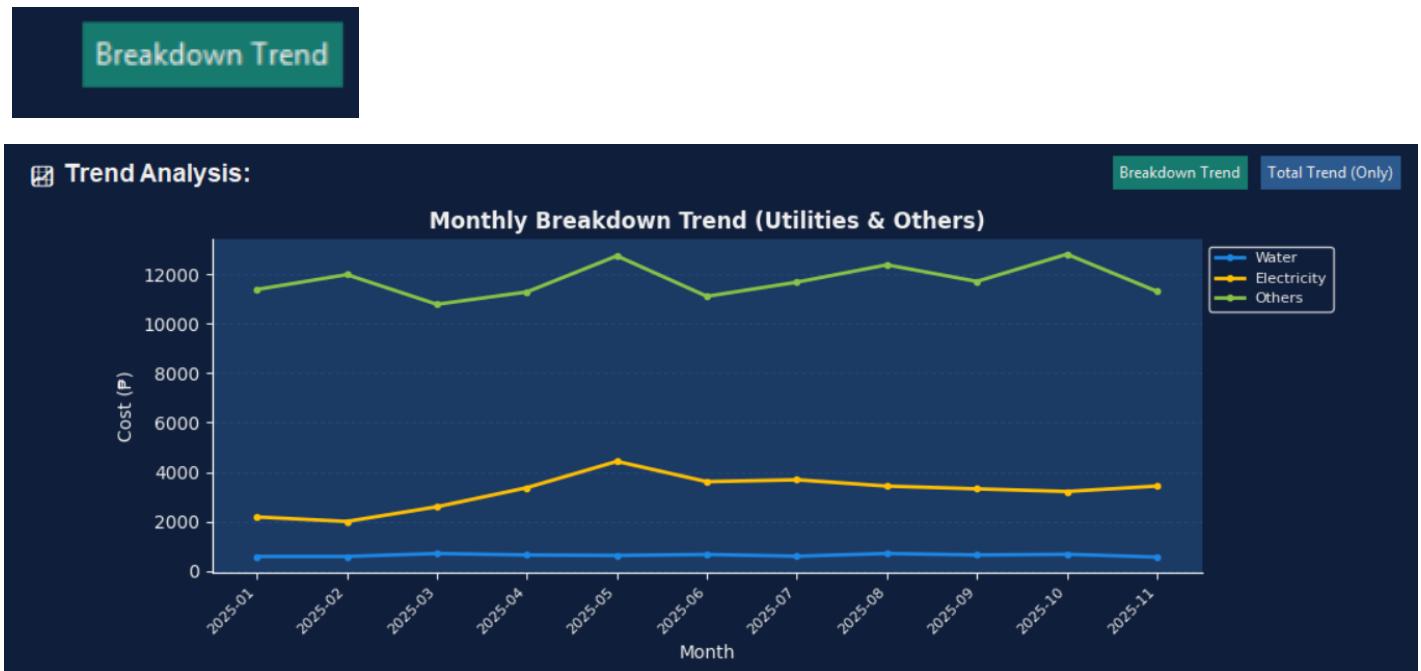
SORT BY BUTTON: to show the orders by month, by highest total, and by lowest total in the transaction table.

TREND ANALYSIS:

GRAPH OF TOTAL MONTHLY EXPENSES: show the graph of total expenses per month



GRAPH OF ELECTRICITY, WATER AND CATEGORIZED EXPENSES: show the graph of water, electricity and categorized expenses per month. Have a *legend* to show colors per expenses.



THE SELECTED SDG AND HOW IT CONNECTS TO THE PROJECT

The selected Sustainable Development Goal (SDG) for this project is ***SDG 12: Responsible Consumption and Production***. This goal is fundamentally linked to the application's core function, which is to track personal finances as a means of controlling consumption. The tracker connects budgeting directly to environmental responsibility by requiring users to document their non-utility expenditures in the "Others" category. This detailed entry process forces a user to confront their buying habits, increasing awareness of their consumption footprint. Crucially, when the system detects an increase in overall spending, it provides a specific SDG tip that encourages responsible consumer choices, such as prioritizing durable, local, or second-hand items. By making consumption transparent and providing actionable advice, the application aims to shift user behavior toward more sustainable and less wasteful purchasing patterns, thus directly supporting the principles of SDG 12.