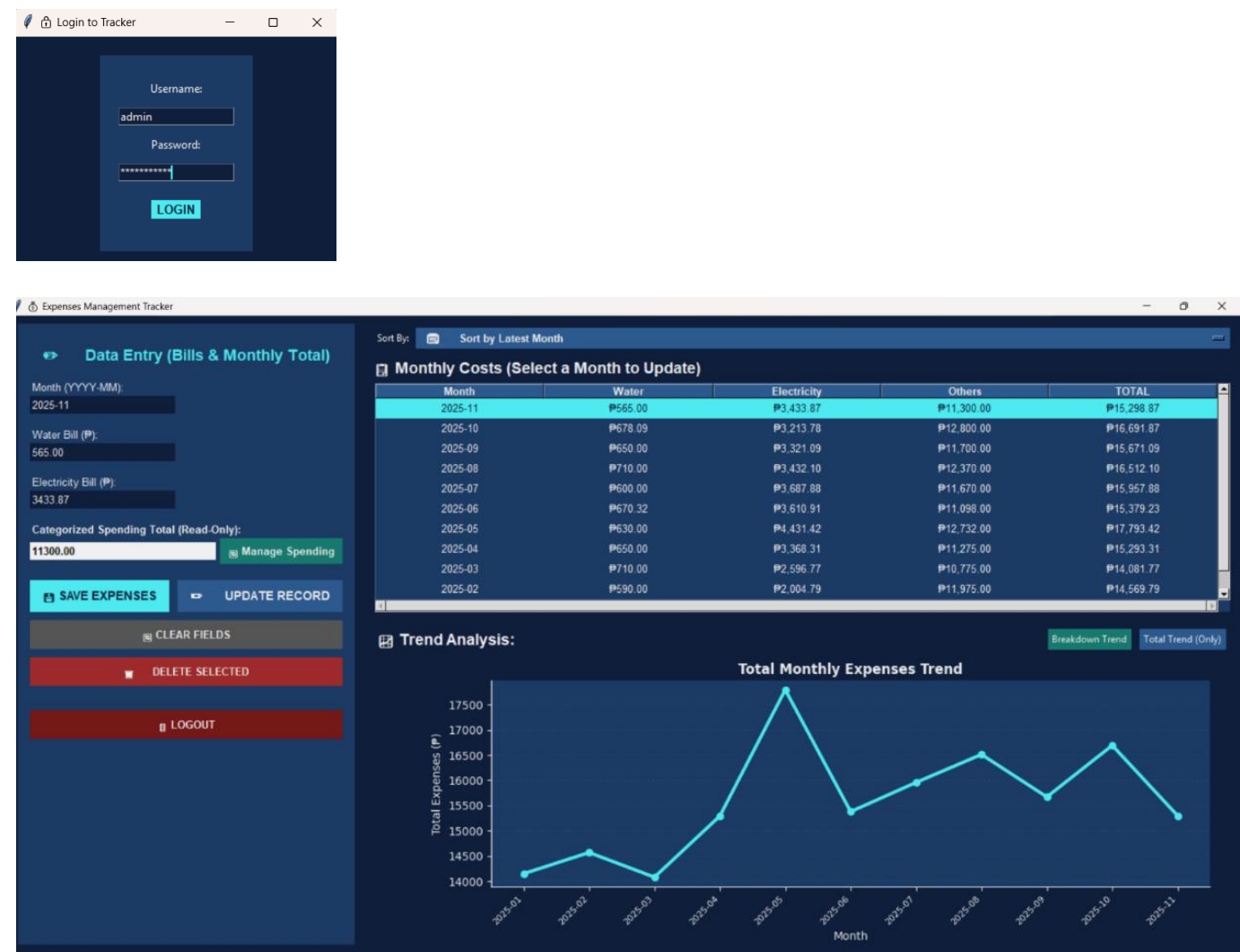*BORILLO, EMMAN M.   BSIT – 2111*

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

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

MANAGING OTHER EXPENSES BUTTON: inputing the other transactions categories *(Food & Groceries, Transport, Healthcare, Sustainable Goods, Wasteful Spending And Entertainment)* and then save it and calculates the overall total of other transactions of expenses for the choosed month.

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
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	₱11,098.00	₱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

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 BUTTON: its function is to update the existing data. To update the record, you need to 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 BUTTON: its function is to clear the fields of the *data entry* to start another transaction.

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.

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

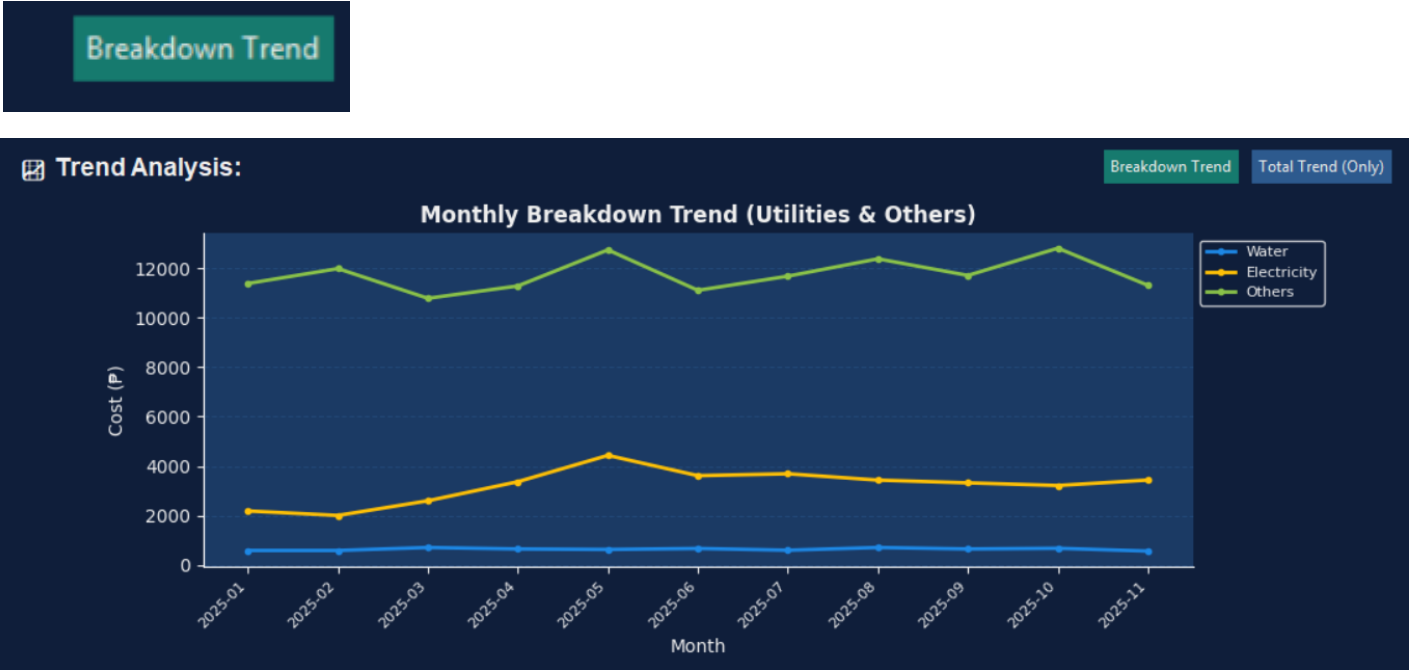**SORT BY BUTTON:** to show the orders by month, by highest total, and by lowest total in the transaction table.

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.