

King Saud University

College of Computer and Information Sciences  
Department of Information Systems

IS324: Modern Applications Development  
1st Semester 1444 H



**Money flow**

Your expense tracker

| Section #         | SN | NAME             | ID        |
|-------------------|----|------------------|-----------|
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## **Introduction:**

Being aware of our spending is the best way of utilizing our money. So, due to the importance of keeping track of the Inflow and Outflow of our daily and monthly expenses we are developing an expense tracker application called “Money Flow” using the programming language that we have been taking during this course: “Python”.

“Money Flow” helps people to monitor and categorize their expenses across the different places. Our app allows users to view their current balance and date and to search and display their previous transactions by type, category and period. Also, the users are able to make a new transaction and specify the source and the type of it. “Money Flow” will help the users to gain control of their finances so if they are trying to pay with an amount that exceeds their balances, the transaction would be rejected and they will be notified with an error message.

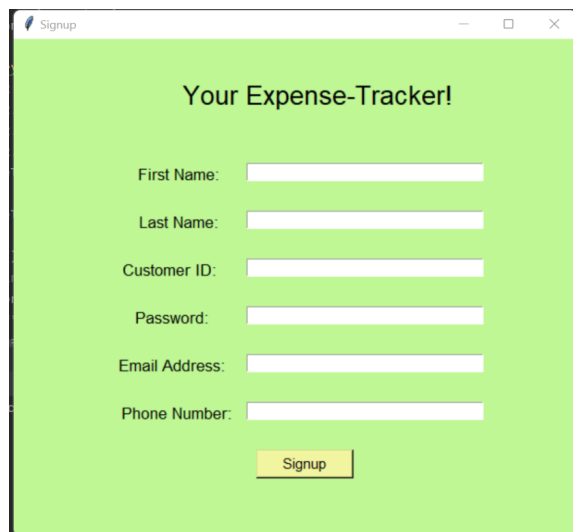
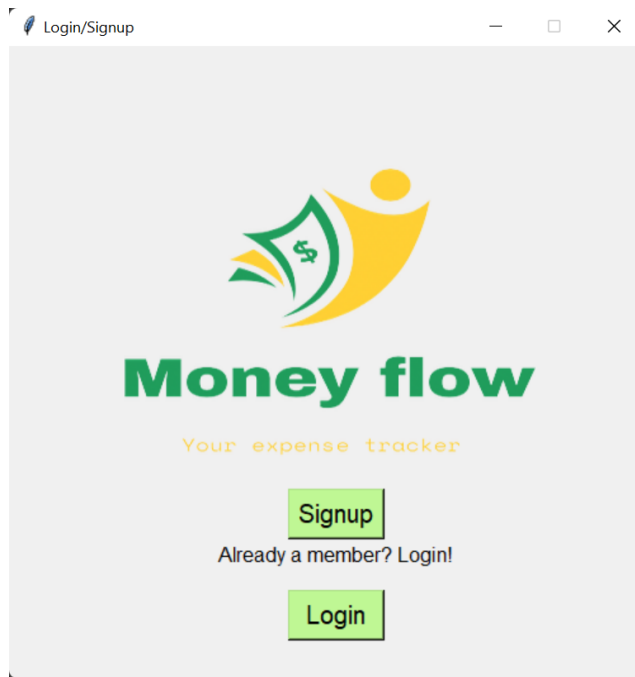
## **Challenges:**

Our first challenge was trying to understand and cover all requirements from the project brief. We found some of the method requirements to be unclear. Moreover, it was difficult to deal with the various validation methods, as well as retrieving and altering information from the central database. Fulfilling the requirements in a fluid and efficient manner proved to be tough, especially when it came to combining the code of all the collaborators.

## **Lessons Learned:**

- 1- how to use and implement multiple windows and navigate from window to another.
- 2- how to translate business requirements into an actual code and functions.
- 3- how to design and use GUI.
- 4- how to visualize a pie chart in python using Matplotlib library.

## Screenshots of the GUI:



e-buget

## Track Your Expenses With The Best Service!

e-Budget : 423851

Balance: 20

Date: 2022-11-06

Operation Source:

Operation Type: ☐ Income ☐ Outcome

Category of Income:

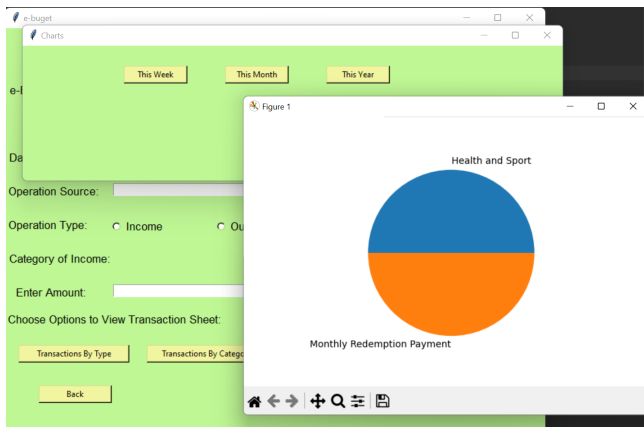
Enter Amount:

Choose Options to View Transaction Sheet:

Transactions By Category

Select Category:

| Customer ID | Type   | Category | Amount | Date       |
|-------------|--------|----------|--------|------------|
| 123123      | Income | Salary   | 20     | 2022-11-06 |



**Contribution:**

| <b>Student</b>          | <b>Task</b>                            |
|-------------------------|--|
| <b>Maysam Alzahrani</b> | <b>GUI , Signup window functions</b>   |
| <b>noura alruwais</b>   | <b>GUI , login window functions</b>    |
| <b>Shahad Alqasem</b>   | <b>GUI , e-budget window functions</b> |
| <b>Haifa Bin Slimah</b> | <b>GUI , e-budget window functions</b> |
| <b>shahad alatiq</b>    | <b>GUI , admin functions</b>           |