Name: Group B 57

Student Reference Number:

Module Code: PUSL2021	Module Name: Computing Group Project
Coursework Title: Expenses Tracker Application	
Deadline Date: 24/03/2024	Member of staff responsible for coursework: Chamindra Attanayake

Programme:
Computer Security
Computer Science
Technology Management

Please note that University Academic Regulations are available under Rules and Regulations on the University website www.plymouth.ac.uk/studenthandbook.

Group work: please list all names of all participants formally associated with this work and state whether the work was undertaken alone or as part of a team. Please note you may be required to identify individual responsibility for component parts.
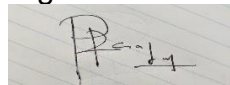
Gajasinghe Gajasinghe -10898764
Deshitha Bandara - 10899245
Rajakaruna Gunawardhana - 10899273
Kavindu Kamalhewa - 10899292

We confirm that we have read and understood the Plymouth University regulations relating to Assessment Offences and that we are aware of the possible penalties for any breach of these regulations. We confirm that this is the independent work of the group.

Signed on behalf of the group:

Individual assignment: *I confirm that I have read and understood the Plymouth University regulations relating to Assessment Offences and that I am aware of the possible penalties for any breach of these regulations. I confirm that this is my own independent work.*

Signed:

Use of translation software: failure to declare that translation software or a similar writing aid has been used will be treated as an assessment offence.

I *have used/not used translation software.

If used, please state name of software……………………………………………………………………

Overall mark _____%   Assessors Initials _____   Date_____

CONTENT

Source Codes:

https://github.com/MAKGunawardhana/PUSL2021_Web_SC

https://github.com/MAKGunawardhana/PUSL2021_MP_CSharp-_SC

Introduction

The purpose of a daily spending tracker system is to monitor an organization's income and expenses daily. The revenue is divided by this approach according to daily costs. If they surpass the daily expenditures, the system will compute the users' revenue and generate fresh daily expenses. After each month, the daily spending monitoring system will provide a report that displays revenue expenses as a doughnut chart. With the help of the cost tracker software, users can effectively manage their spending and steer toward financial stability by keeping track of all their expenses. It is simpler to observe how much money people spend when they track their expenditures on a weekly, monthly, and yearly basis.

Background

Technologies used in this project:

- ASP.NET MVC
A Microsoft open-source program. Its online development framework incorporates the best elements of the current ASP.NET platform, the most recent concepts and methods from agile software development, and the advantages of MVC architecture.

- Microsoft SQL Server
Microsoft created the relational database management system (RDBMS) known as MS SQL Server. The primary purpose of this product is to store and retrieve data as needed by other applications. It can be executed via a network on a different computer or the same one.

- Syncfusion
it's a platform for desktop, web, and mobile development frameworks that helps developers launch many products more quickly, and Bold Line offers a wide range of enterprise solutions, including support desk software and data analysis and visualization.

- XAMPP
With Apache, MySQL (MariaDB), PHP, and Perl, XAMPP is a free and open-source web server solution stack. For testing web applications before deploying them to production servers, it offers a local development environment. With its flexibility and ease of setup, XAMPP is a popular cross-platform tool among developers.
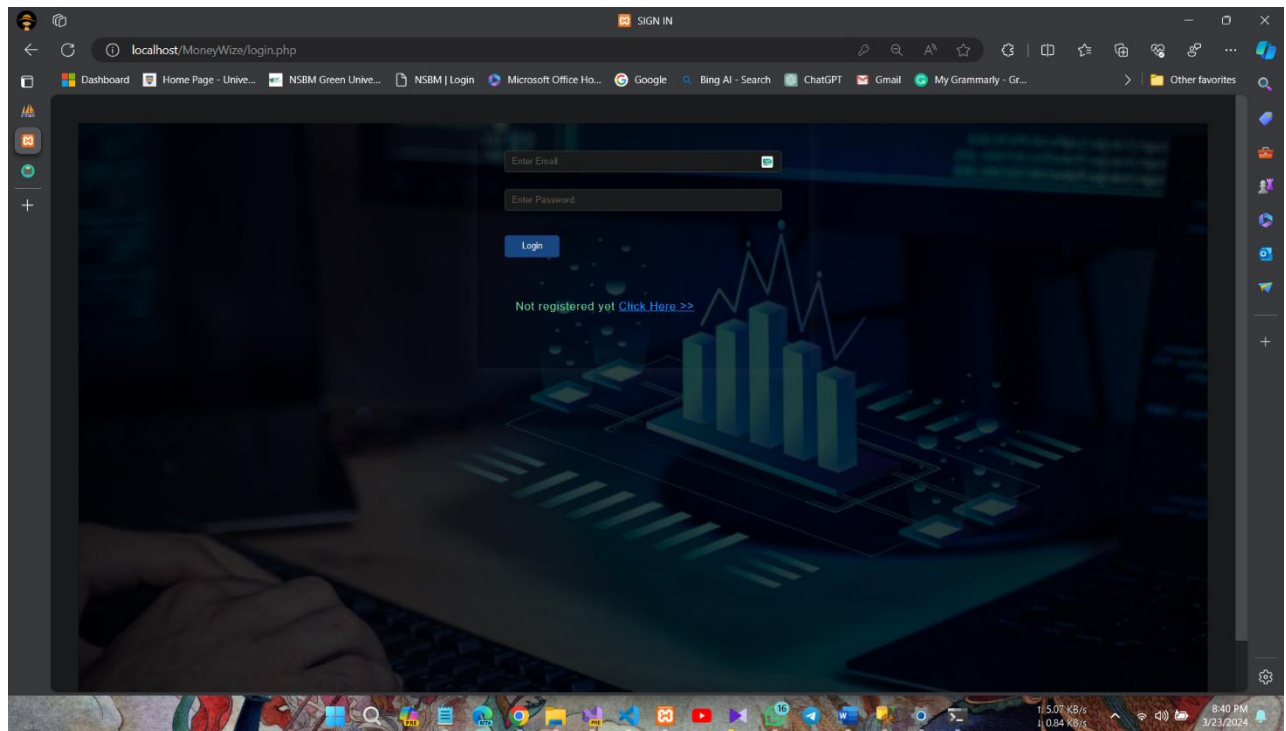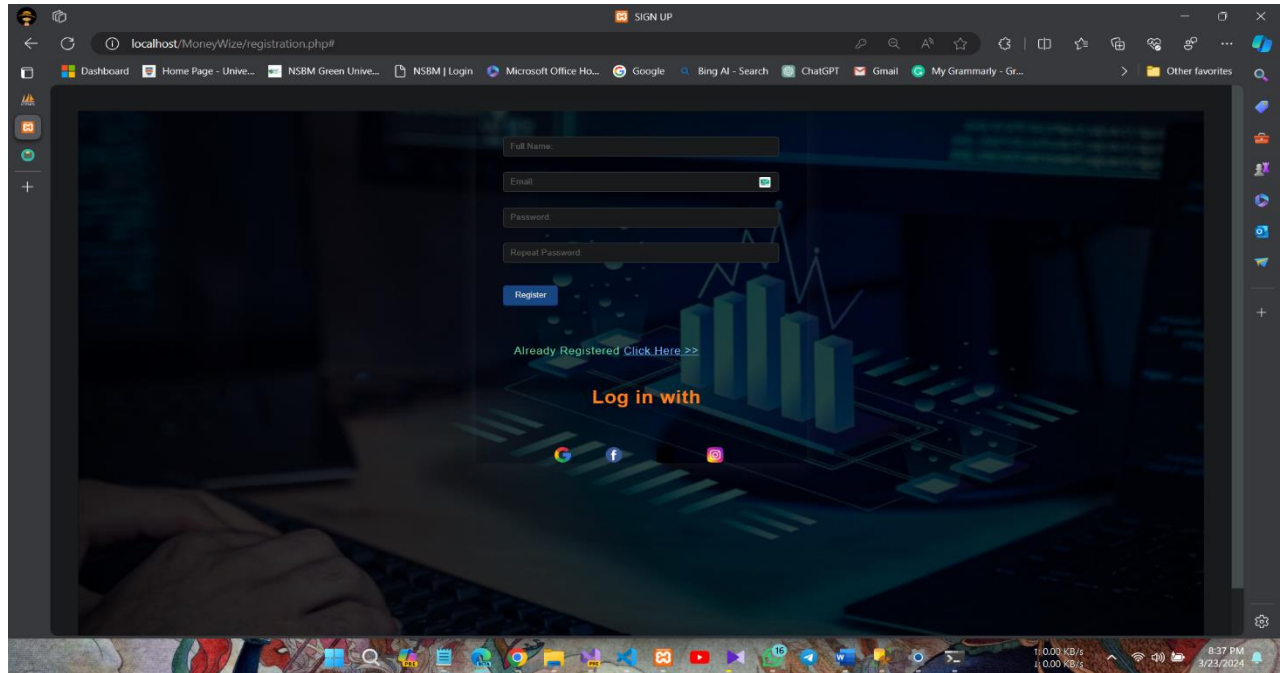
- Visual Studio Code
Visual Studio Code (VS Code) is a potent and free source code editor. Many programming languages are supported, such as TypeScript, JavaScript, Node.js, C++, C#, Java, Python, PHP, Go, and.NET.

Literature Review
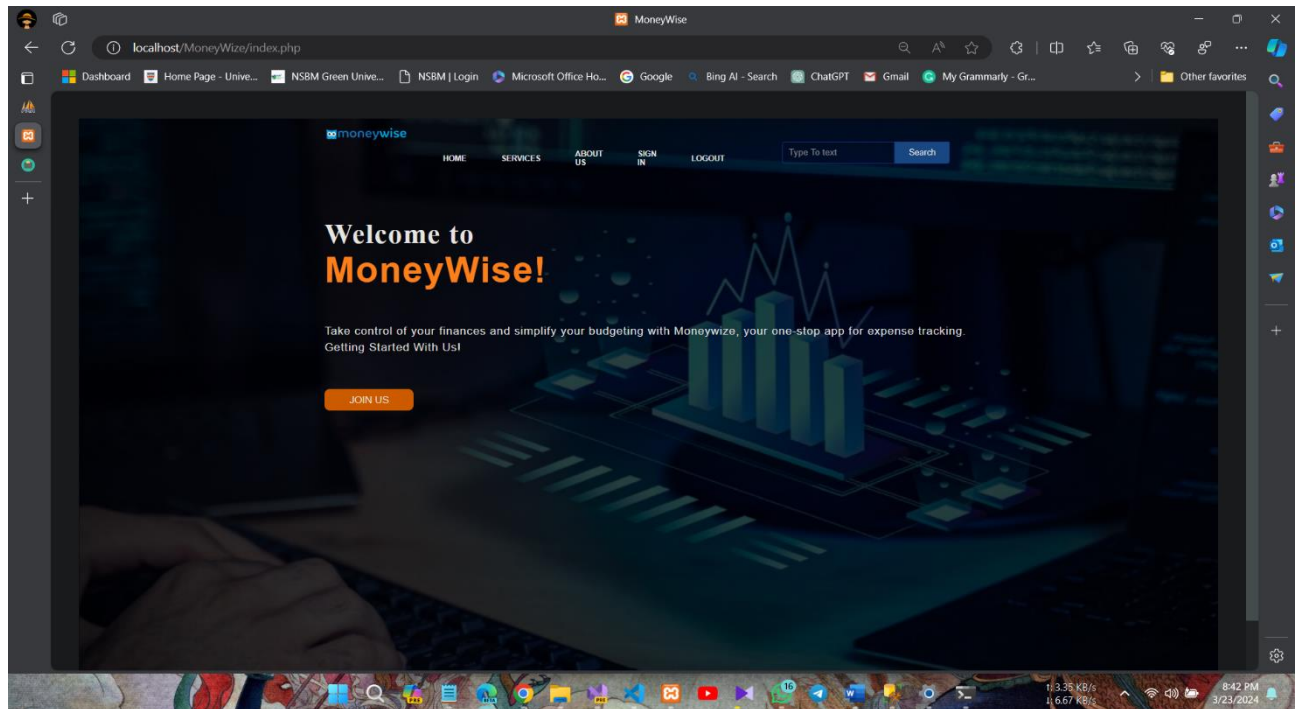
Accurate sources on research we study:

- Sign Up and Sign In of the users:

  This application is the same as all the others. Your login will be shown on the enlistment application alternatives. Users should join this application if they are using it for the first time.
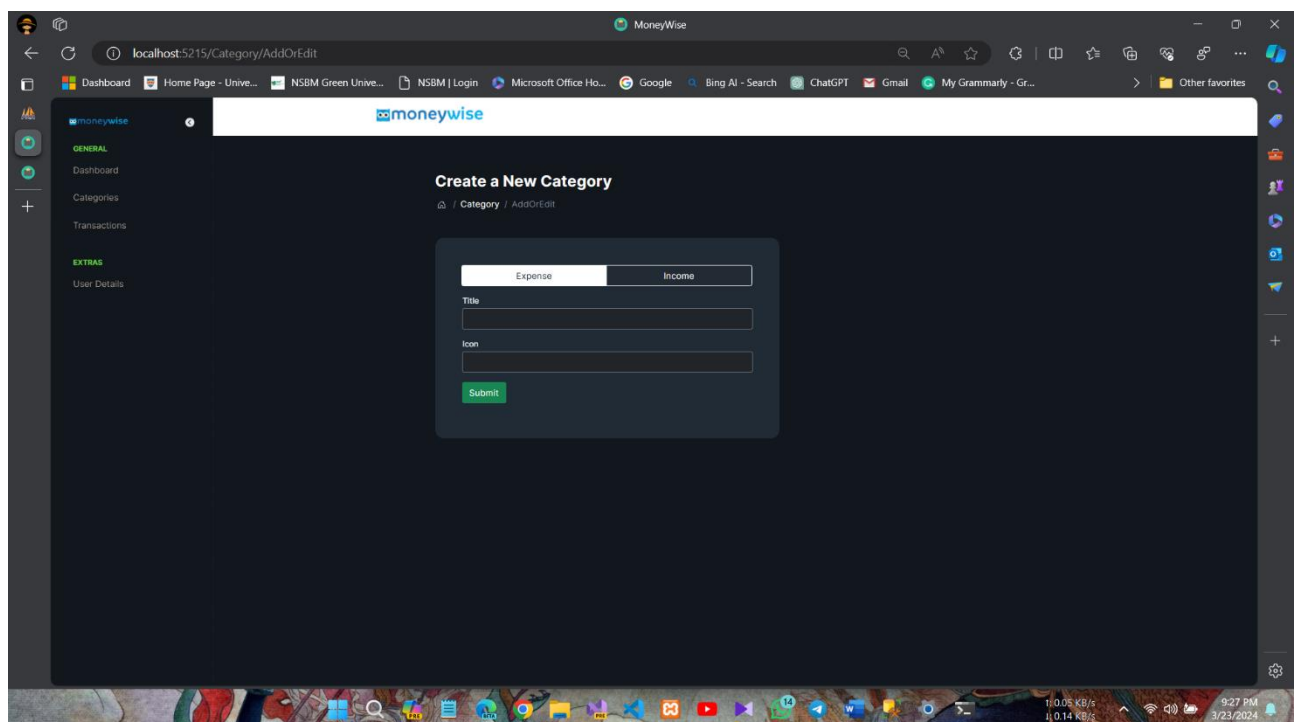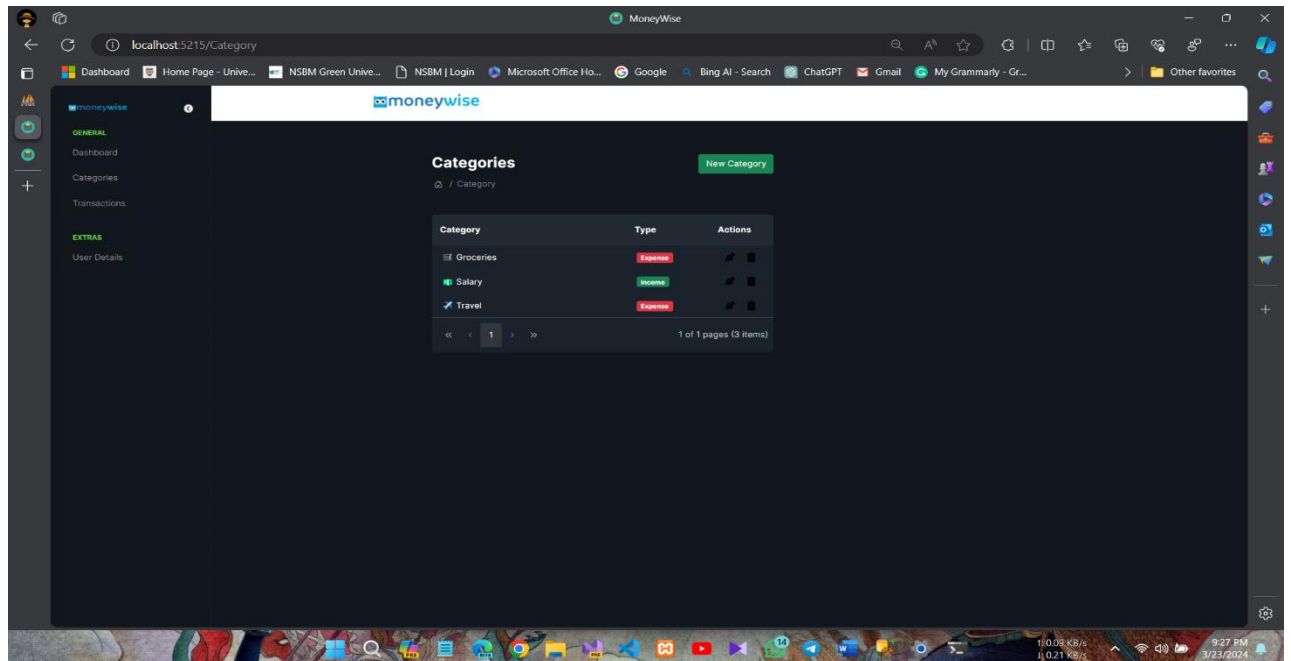
- Home

The home page offers users a smooth and user-friendly experience as the entry point to the MoneyWise digital platform. Focus on users in design, it provides simple navigation with quick access to important functionality. Basic navigation bar for quick access to key parts. Those are Home, Services, About, Sign in, and Logout. Then the user clicks on "Join Us", user can access the MoneyWise expense management application.
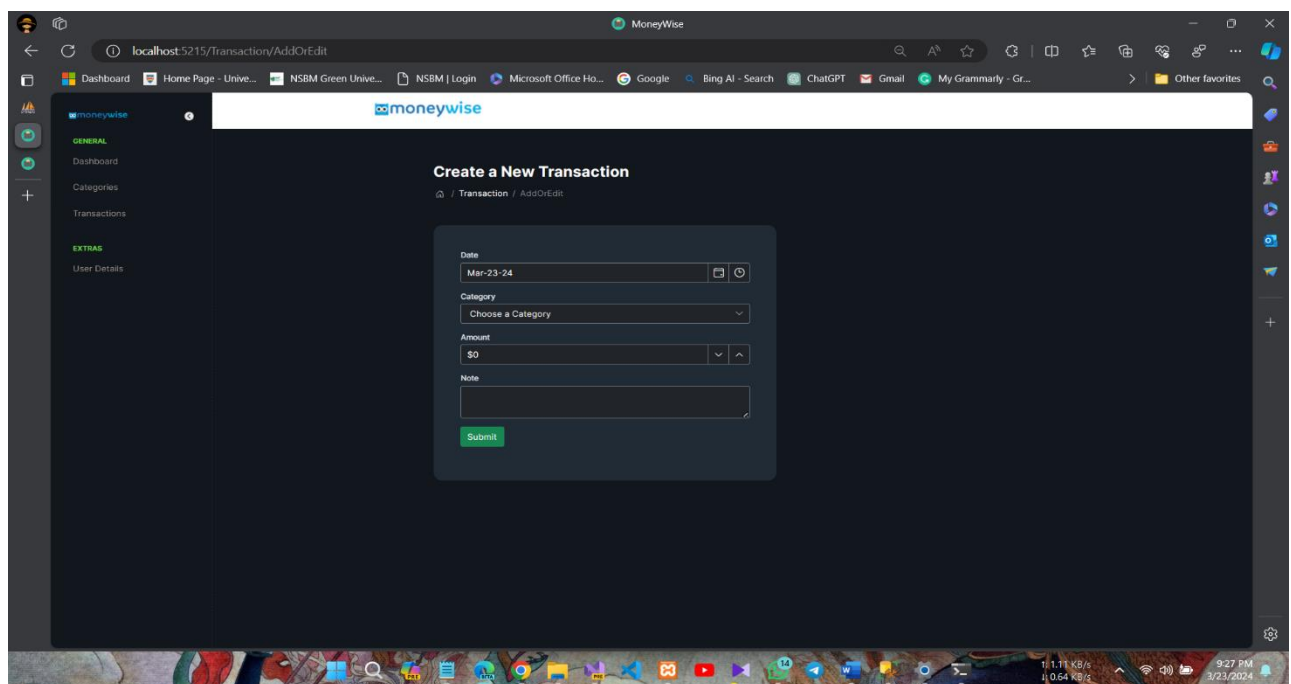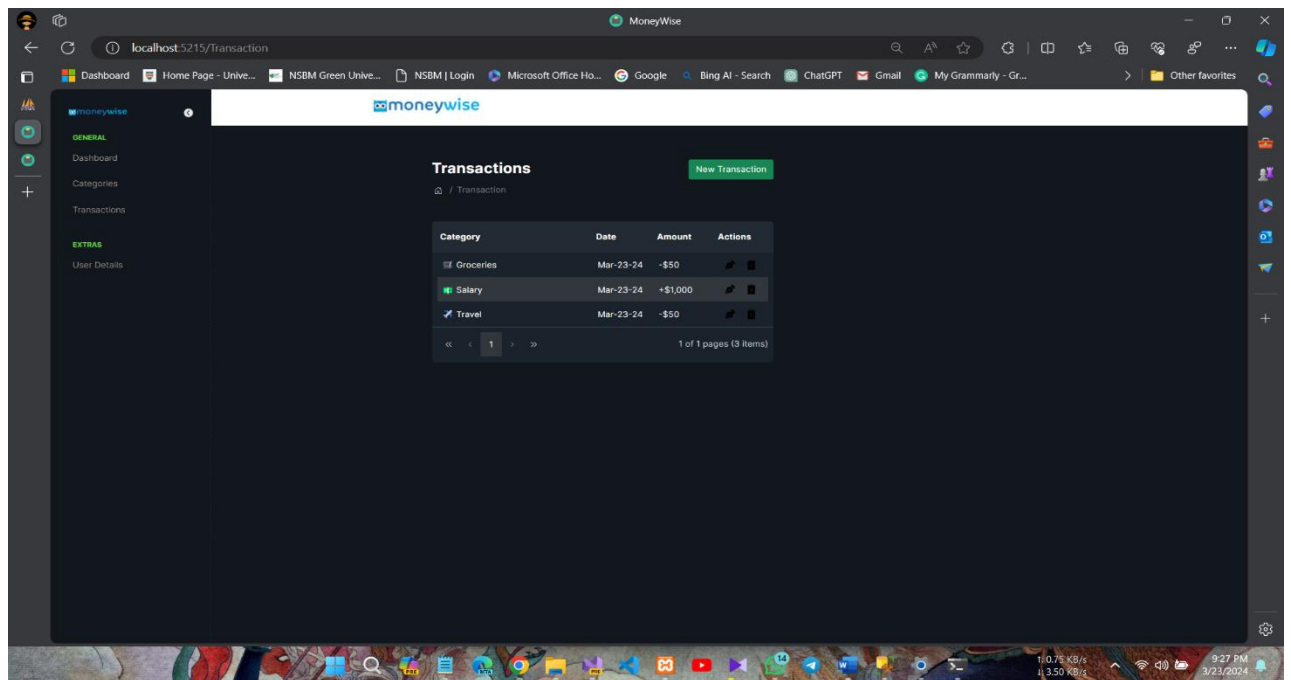
- Adding Income and Expenses

  You may choose the category or kind of revenue or spending using this application. Every programme user can contribute revenue and costs based on their own need. Every record has to provide the item's date of occurrence, its specifics, etc.
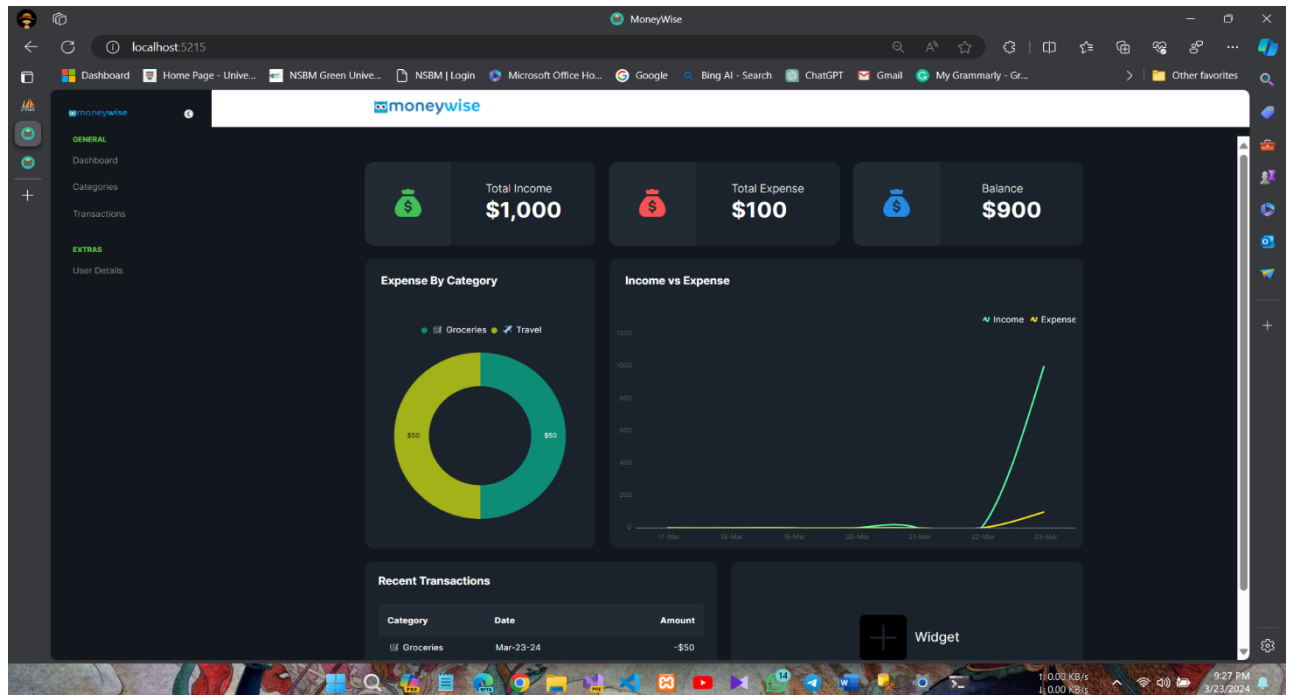
- Transactions

  For the purpose of keeping track of income, expenses, and categorization information, this module mostly relies on the database.

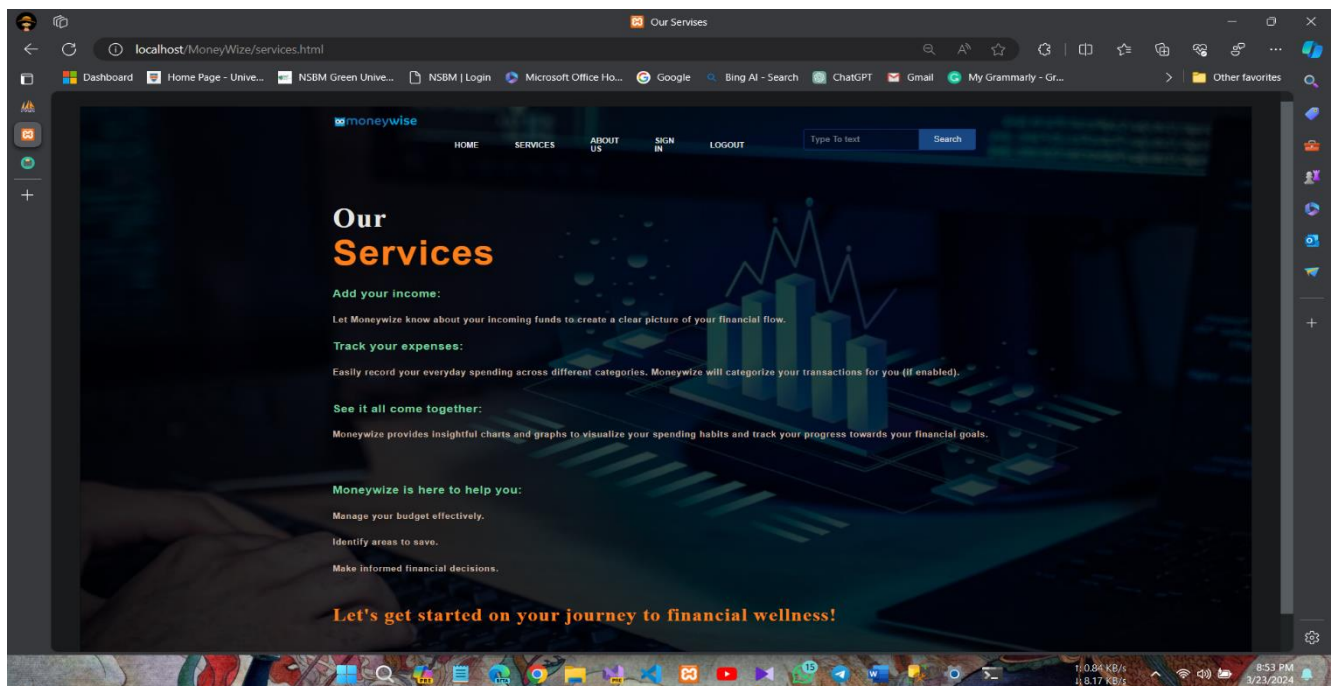

- Management View - Category by Date Wise

Expenses are categorized and dated before being recorded in this module. By compiling all income and expense details, a summary of transaction categories is generated based on our various expenditures.

Proposed System

Users entering data into the proposed system have three options: transactions, expenses, and income. The user will be presented with a variety of categories and subtypes if they choose income or expense. Nevertheless, only items can be added to the transactions. In the database, these data will be kept according to their unique categorization. If the user chooses, they can subsequently make changes to the saved data. In this sense, "modification" includes updating data, adding descriptions, and altering wish list items, among other things. Users may also add filters to display only the desired material, and they can choose to see the results.

Here I attached a user interview: https://liveplymouthac-my.sharepoint.com/personal/10899273_students_plymouth_ac_uk/_layouts/15/stream.aspx?id=%2Fpersonal%2F10899273%5Fstudents%5Fplymouth%5Fac%5Fuk%2FDocuments%2FUser%20Interview%2Emp4&referrer=StreamWebApp%2EWeb&referrerScenario=AddressBarCopied%2Eview

Technical Specification

- This tracker has various options to keep records such as Travelling, Food, Salary, etc.

- In the fast-paced and costly world we live in today, there is a strong desire to earn money quickly, yet by the end of the month, we find ourselves struggling financially. Often, we unknowingly waste money on unnecessary items and expenses. Therefore, we have devised a strategy to prioritize our financial gains.

- Users can create custom categories for expenses such as Food, Clothing, Rent, and Bills. They are required to input the amount spent in each category and can also include additional information in the extra data field to specify the expense.

Conclusion

Users may monitor their spending with the help of the suggested personal expense tracker, which streamlines the budget management process and ultimately saves time and energy. It will only take a few seconds to improve your money-saving techniques. Keeping track of your everyday spending helps you set financial objectives for the future in addition to saving money. The goal of the Expense Tracker project is to assist us in tracking our everyday expenses and maintaining an accurate record of our money. Because our project does not require human calculations to determine revenue and costs each month, it is more efficient than other income and spending trackers currently on the market. This procedure is made simpler by this user-friendly programme.

References

- (No date) *Computer Science & Engineering-accredited by NBA, New Delhi* ... Available at: https://www.geethashishu.in/department_entry/department/25/75.pdf (Accessed: 24 March 2024).
- International Journal of Computer Techniques IJCT (2016) *[IJCT v3i2p25] authors: Mr.S.Jagadeesan,M.Sc, MCA., m.phil., me[cse]., s.rubiya*, *Academia.edu*. Available at: https://www.academia.edu/27638849/_IJCT_V3I2P25_Authors_Mr_S_Jagadeesan_M_Sc_MCA _M_Phil_ME_CSE_S_Rubiya (Accessed: 24 March 2024).
- (No date a) *Amazon.com: Android Application Development For Dummies:* ... Available at: https://www.amazon.com/Android-Application-Development-Dummies-Felker/dp/047077018X (Accessed: 24 March 2024).