

DON BOSCO INSTITUTE OF TECHNOLOGY KURLA, MUMBAI

A PROJECT REPORT ON

“Expense Ease”



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**DEPARTMENT OF INFORMATION TECHNOLOGY
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CERTIFICATE

This is to certify that the project entitled “**Expense Ease**” is a bonafide work of **Narendra Dukhande, Saifuddin Syed, Sanchita Warade and Lenoy Geo Thomas**, submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of “**SE IT**” in “**Java Mini Project**”.

(GUIDE SIGNATURE)

(HOD SIGNATURE)

Approval Certificate

This project report entitled website on [] by Narendra Dukhande, Saifuddin Syed, Sanchita Warade and Lenoy Geo Thomas is approved for the degree of Bachelor of Engineering in Information Technology.

Examiners

1.-----

Name:-

Date:-

Place:-

Declaration

I declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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Date:

Abstract

This project is based on the daily expenses or income tracking system. This project aims to create an easy , faster and smooth tracking system between the expense and the income for the user. This project also offers some opportunities that will help the user to sustain all the financial activities like digital automated diaries. So, for a better expense tracking system we have developed our project that will help the users a lot. Most of the people cannot track their expenses and income one way they face a money crisis, in this case daily expense tracker can help the people to track the expense-income day to day and making tension free. Money is the most valuable portion of our daily life and without money we will not last one day on earth. So, using an expense tracker application is important to load a happy family. Daily expense tracker helps the user to avoid unexpected expenses and bad family situations. The project will save time and provide a responsible lifestyle. This system is made and supervised by the experts and has satisfied the users.

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Problem Statement

- The current lack of an efficient and user-friendly expense tracking solution poses a significant challenge for individuals and businesses alike.
- Manual recording and management of expenses often lead to errors, oversights, and time-consuming processes.
- This results in financial mismanagement, missed budgeting opportunities, and hindered decision-making.
- A comprehensive digital expense tracker is needed to address these issues and streamline the expense management process.

The system that we have developed is keeping the aim for: **“Providing an intuitive and user-friendly platform for tracking expenses of the user and their income.”**

Project Scope

Scope of our project lies in :

- The scope of the expense tracker project includes the development of a user-friendly desktop application that allow users to effortlessly record, categorize, and track their expenses.
- The application enables user to input expense details, including date, amount, category, and description.
- It also provides automated features such as expense categorization, customizable budgets, insightful visualizations, and regular expense summaries.
- It also provides the user the borrow/lend category .

Review of Literature

The significance of incorporating an expense tracker is underscored by its multifaceted benefits in personal finance management. In essence, the project's ultimate objective is to empower users to take charge of their financial well-being by providing a comprehensive and user-friendly platform for tracking expenses and income. This empowerment is achieved through the fusion of technology and expert guidance, aiming to deliver a practical solution that contributes to a more secure and informed financial future.

The defined project scope entails employing Scene Builder for the frontend, focusing on components such as the login page and dashboard. On the backend, JavaFX coding is utilized within Visual Studio Code, IntelliJ IDE, complemented by database management using MySQL. The benefits of the expense tracker encompass effective personal finance management, assistance in budgeting and long-term planning, insightful analysis of spending patterns, enhanced financial control, awareness, and the alleviation of financial stress. The expense tracker not only supports the cultivation of improved spending habits but also enhances financial awareness, ultimately leading to reduced stress associated with financial matters.

In summary, the project's overarching aim is to provide a robust and intuitive expense tracking platform, leveraging both technology and expert guidance to facilitate financial empowerment and promote a secure and well-informed financial future for the users.

Relevant Literature on Existing Scenario

In recent years, the landscape of expense trackers has witnessed a significant transformation driven by technological advancements and changing user expectations. The prevalent use of smartphones and the availability of sophisticated mobile applications have revolutionized how people manage their finances. Expense tracker apps have become pervasive, evolving to offer a comprehensive array of features that extend far beyond basic expense recording. These modern applications seamlessly integrate with users' bank accounts and financial institutions, providing real-time transaction tracking, automated categorization of expenses, and valuable insights into spending patterns. This not only enhances accessibility but also ensures that financial information is always up to date. Moreover, integration with other financial platforms has become a norm, offering users a holistic view of their financial health by linking to investment portfolios, retirement accounts, credit cards, and loans. Artificial intelligence (AI) and machine learning have emerged as significant players in expense tracking. Advanced algorithms analyze spending habits and offer personalized financial advice, even predicting future expenses based on historical data. Data privacy and security have also gained paramount importance, prompting expense tracker platforms to employ robust encryption, two-factor authentication, and other security measures to safeguard users' sensitive financial data. Some platforms have shifted to subscription-based models, allowing users to access additional features or enjoy an ad-free experience for a recurring fee. Customization and a seamless user experience are emphasized, allowing users to tailor the app according to their preferences, categorizing expenses based on their lifestyle and financial goals. In essence, the contemporary scenario of expense trackers is defined by their integration with cutting-edge technology, enhanced functionality, security, and a personalized approach, providing users with a multitude of options to choose from to suit their specific financial management needs and preferences. For the most up-to-date developments, checking the latest sources or app stores is recommended.

Proposed Solution

Expense Ease: Expense Tracker System

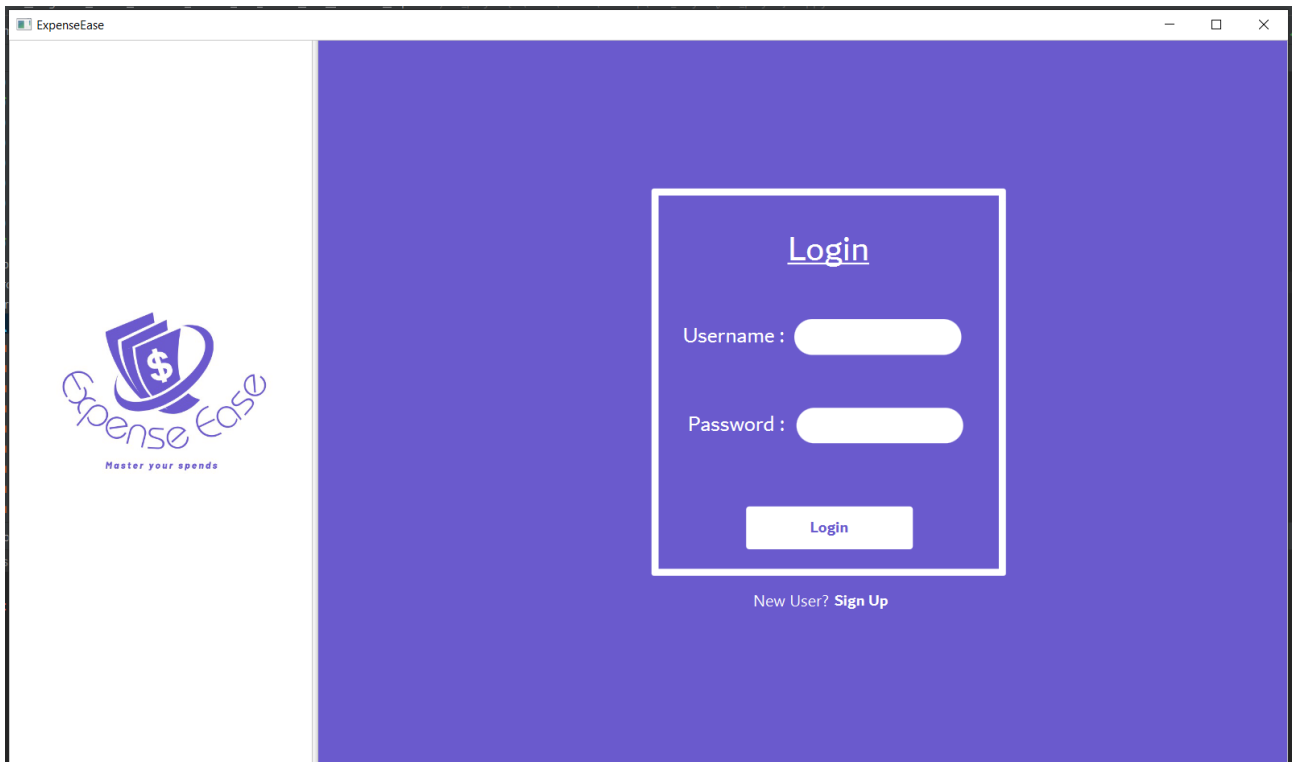


‘ A software developed as a desktop application to computerize the daily expenses of an individual and helps an individual to manage their financial transactions, expenses and budget. ’

- Keeping track of the expenses helping the user to manage his budget accordingly
- Various Expense categories
- Keeping track of the savings of the user
- Adding transactions
- Customizable budget , so that if w
- Graphical representation of the expenses

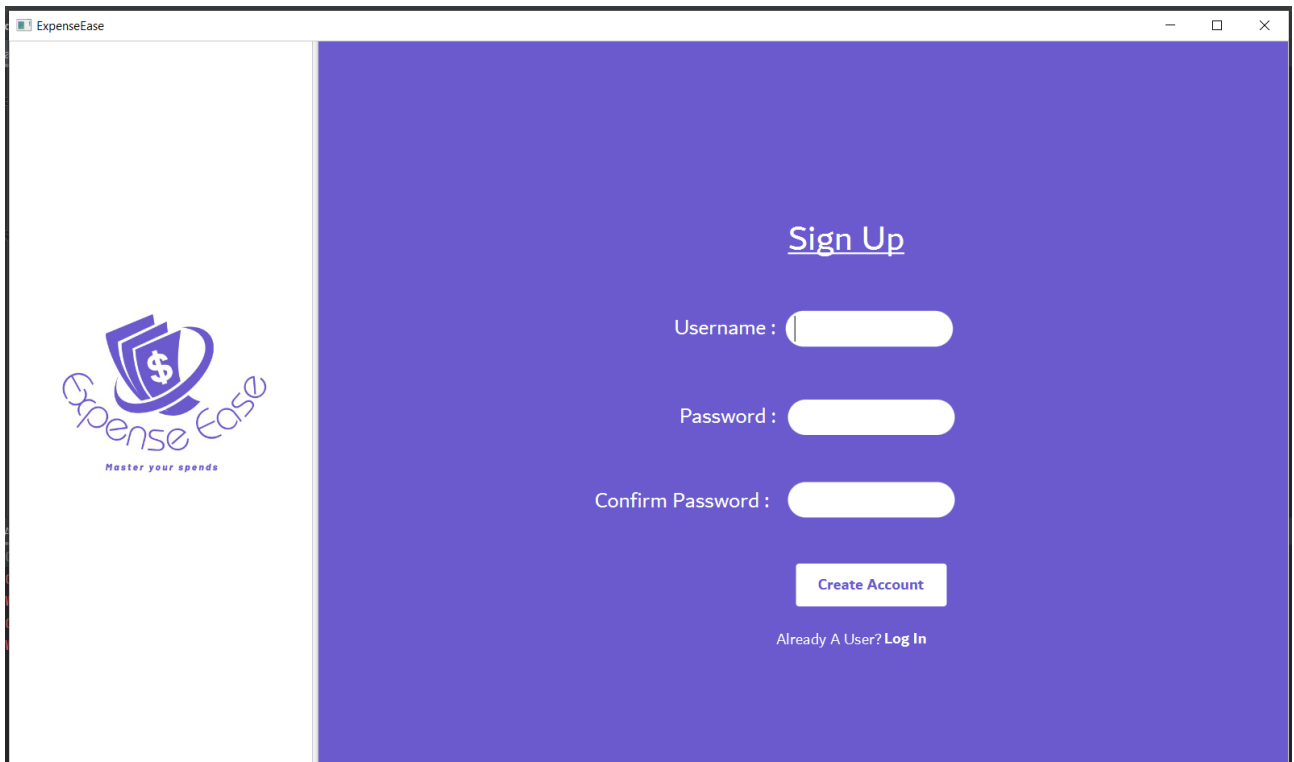
System and Implementation

Login Page :



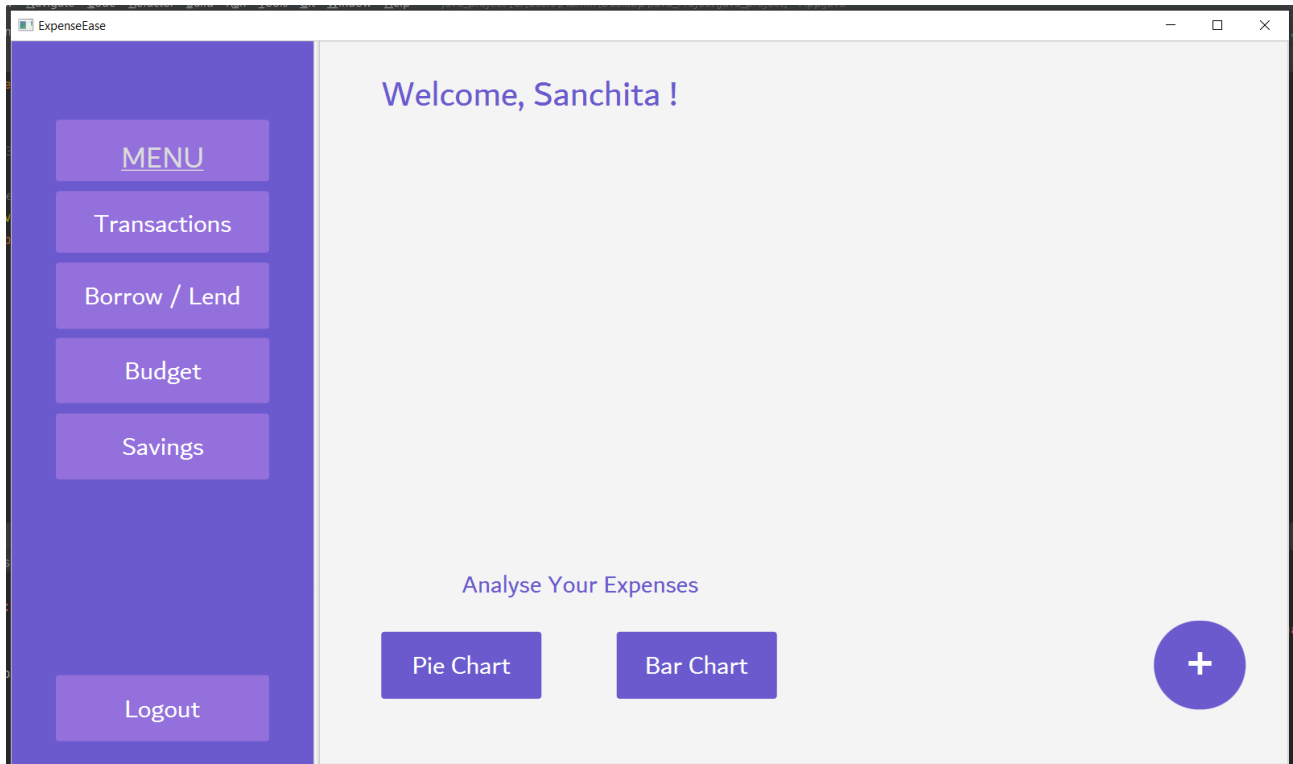
A screenshot of the ExpenseEase login page. The page is divided into two main sections: a white sidebar on the left and a purple main area on the right. The sidebar contains the ExpenseEase logo, which features a stylized blue and purple shield with a dollar sign, and the text "ExpenseEase" in a blue script font, with the tagline "Master your spends" in a smaller blue font below it. The main purple area contains a white-bordered box with the heading "Login" in blue. Below the heading are two input fields: "Username :" and "Password :". Below these fields is a white "Login" button. At the bottom of the main area, there is a link that says "New User? Sign Up".

Sign Up :

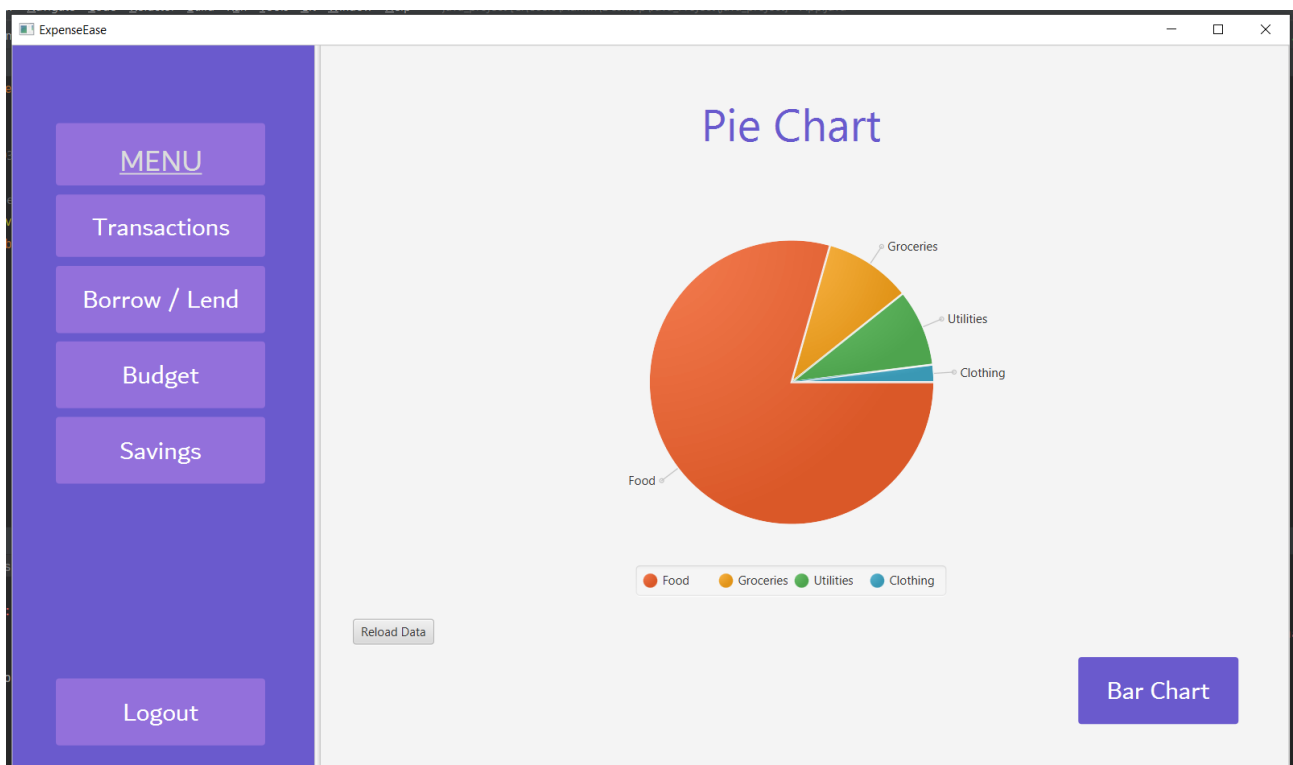


A screenshot of the ExpenseEase sign up page. The layout is identical to the login page, with a white sidebar on the left containing the ExpenseEase logo and tagline. The main purple area contains a white-bordered box with the heading "Sign Up" in blue. Below the heading are three input fields: "Username :", "Password :", and "Confirm Password :". Below these fields is a white "Create Account" button. At the bottom of the main area, there is a link that says "Already A User? Log In".

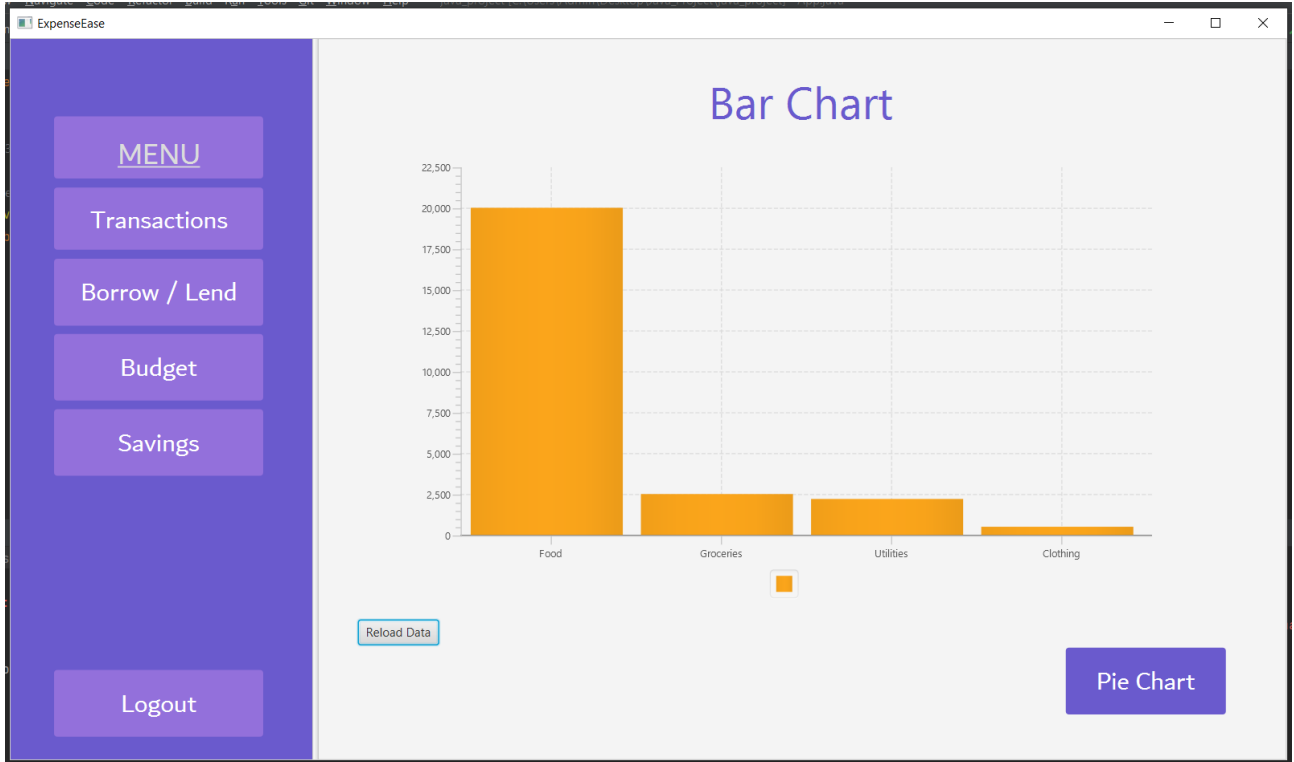
Dashboard :



Piechart :



Bar Chart :



Transaction :

[illegible]

Add Transactions :

MENU

Transactions

Borrow / Lend

Budget

Savings

Logout

Add Transaction

Date :

Type :

Category :

Amount :

Add

Borrow/Lend :

MENU

Transactions

Borrow / Lend

Budget

Savings

Logout

Borrow / Lend

Previous Records :

Due Date	Type	Description	Amount
2023-10-05	Borrowed	Borrowed from Lucas	1800
2023-10-06	Lent	Lent to Rachel	2100

Add new record :

Date :

Due Date:

Type :

Description:

Amount :

Add

Budget :

MENU

Transactions

Borrow / Lend

Budget

Savings

Logout

Budget

Category	Expense limit
Transportation	7000
Utilities	7500
Shopping	7500
Groceries	7500
Travel	7500
Electronics	7500
Dining out	7500
Healthcare	7500
Education	7500
Food	7500

Add Category

Edit/Delete a Budget :

Enter Category:

Enter Expense Limit:

Delete

Apply Changes

Add Category :

MENU

Transactions

Borrow / Lend

Budget

Savings

Logout

Add Category

Category Name :

Expense Limit :

Add Category

Savings :

The image shows a web application interface for managing savings. On the left is a dark blue sidebar menu with white text links: MENU, Transactions, Borrow / Lend, Budget, Savings (highlighted), Logout, and Add New Transaction. The main area has a light blue header with the title "Savings". Below the header is a table with two columns: Date and Savings. The table contains three rows of data: 2023-09-17 with 3000, 2023-09-28 with 2800, and 2023-09-29 with 1900. To the right of the table is a form titled "Edit Savings :". It includes a date input field, a numeric input field labeled "Savings :", and an "Edit" button. At the bottom right of the main area is an "Add Saving" button.

Add Savings :

ExpenseEase

MENU

Transactions

Borrow / Lend

Budget

Savings

Logout

Add Savings

Date :

Amount :

Add Saving

Conclusion

The project outlined in the provided text aims to develop a user-friendly interface that facilitates effortless recording, categorization, and monitoring of expenses for individuals. This initiative is designed to benefit a broad spectrum of users, enhancing their financial tracking and decision-making capabilities.

Moreover, the project has served as a valuable learning experience for the individuals involved. It has provided opportunities for growth, both in terms of technical knowledge and personal development. The challenges encountered throughout the project have played a crucial role in shaping the team's understanding of collaboration and teamwork. It has instilled essential lessons on effective group dynamics and human interaction, essential aspects of successful project execution.

Additionally, the project has offered insights into the technical issues faced by faculty and has deepened the team's understanding of organizational workings. This first hand exposure has broadened their perspective, allowing them to appreciate the intricacies and complexities involved in managing projects within an organizational framework.

The acknowledgment of the challenges and growth opportunities presented during the project showcases the team's commitment to continuous improvement and their gratitude for the collective effort that made the project successful.

This project would not have been possible without all of us supporting and helping each other, teaching us about the importance of teamwork and also the guidance of our project guide.

References

- 1) <https://apps.microsoft.com/store/detail/my-expenditures/9NS3KV8RGC8R?> – Expense Tracker App reference
- 2) <https://www.youtube.com/watch?v=ThTgN90PA44> - Connecting Java Project with MySQL Workbench
- 3) <https://www.udemy.com> -
/course/javafx-master-class-create-a-expense-tracker-application-UI-design-reference
- 4) <https://stackoverflow.com/questions/tagged/java-javafx> - JavaFX Tutorial
- 5) https://youtu.be/9XJicRt_FaI?si=4FFrAZm54LXQyKWH –
JavaFx Youtube Tutorial

Apps referred : Expense Spy, Money Manager Pro, Expense.io, Spendee