LONDON METROPOLITAN UNIVERSITY

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(इस्लिङ्टन कलेज)

Title

Budget Tracker

Assessment Type

Internship Evaluation Task

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1. Introduction

The Budget Tracker Application is a web-based financial management tool developed using Angular. It simplifies the process of managing your money by allowing you to easily keep tabs on both your earnings and expenditures. This application provides a straightforward and hassle-free way to enhance your financial tracking experience. The primary goal is to facilitate meticulous tracking of income and expenses, empowering users to make informed decisions about their financial well-being.

This application serves as a showcase of my skills and proficiency in Angular, offering a tangible demonstration of my expertise in coding practices. The strategic use of Angular, coupled with my overall coding knowledge, is apparent in the design, features, and functionality of the application. This showcase not only highlights my technical capabilities but also stands as a testament to my ability to apply coding best practices in a real-world context.

2. Tools Used

The application was crafted using a combination of versatile tools. Visual Studio Code served as the chosen text editor for its efficiency and user-friendly interface. Angular and Angular CLI were employed as the primary development frameworks, harnessing their robust capabilities. Furthermore, the application's CSS was created using Bootstrap, guaranteeing a responsive and aesthetically pleasing appearance. This strategic selection of tools contributes to the application's overall performance and aesthetics.

3. Key Features

The application is built according to the requirements provided in the task description. The key features of the application are:

3.1. User login/register and authentication

- **Register**

  Users can sign up for the application using the registration page. During the registration process, users need to enter their name, email address, and provide an individual password. It is not possible to register with an email address that is already in use.

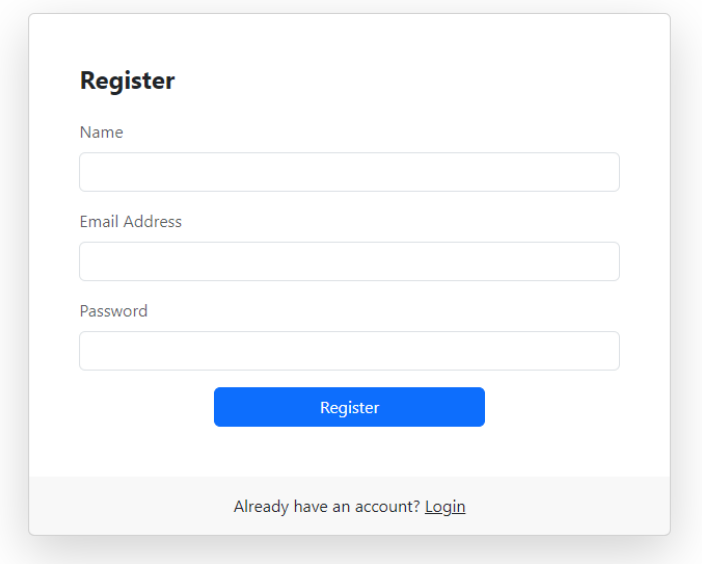

Figure 1: Register page

- **Login**

  Once signed up, users can immediately log in to the application using their email address and password, gaining direct access to its features and functionalities. This shortened login process provides a convenient and secure user experience.

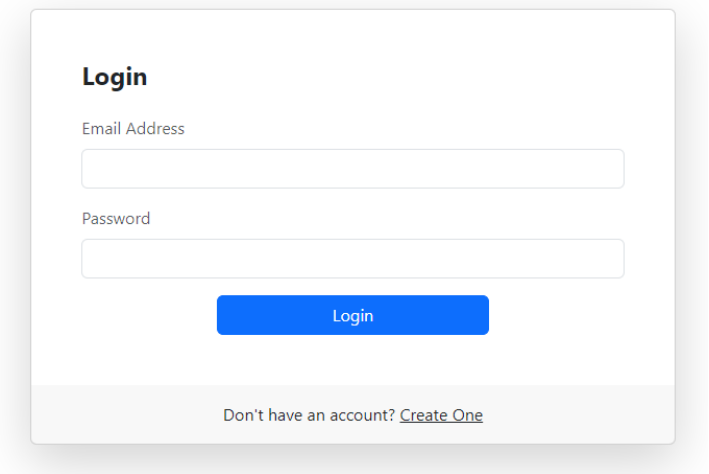

Figure 2: Login page

3.2. Authorization

Users are seamlessly directed to the dashboard upon successfully logging in, granting them immediate access to their financial information. The login process is designed to enforce strict security measures, allowing users to retrieve only their personal data. This careful implementation enhances the application's overall security, ensuring a private and tailored experience for each user.

3.3. Income and expense management

As the core functionality of the application, users have the ability to add, edit, and delete their income and expense data seamlessly. A user-friendly form simplifies the process of inputting this financial information. Subsequently, the data is presented in a tabular format, allowing users to conveniently view, edit, and delete their income and expense entries. This intuitive approach enhances the overall user experience in managing their financial data.

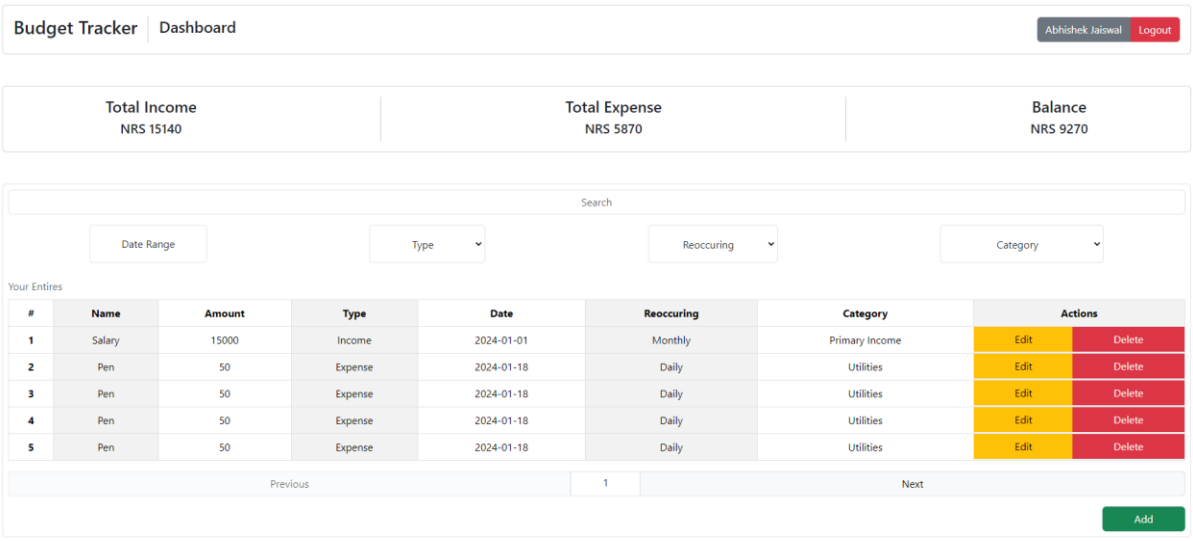

Figure 3: Dashboard

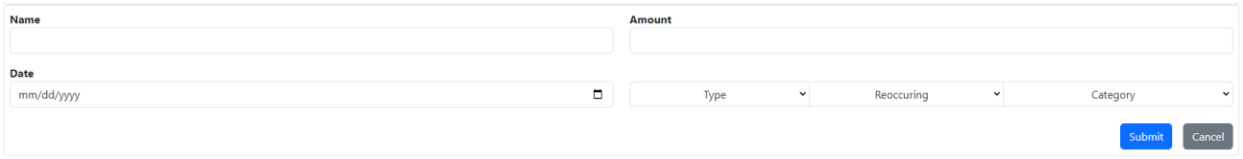

Figure 4: Data input form

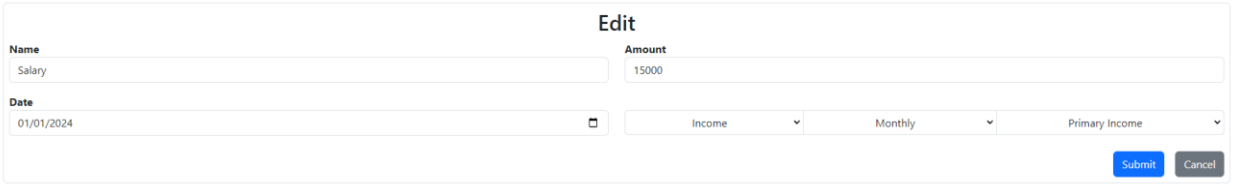

Figure 5: Edit form

3.4. Summary Statistics

Upon entering their financial data, the application consequently performs automatic calculations, presenting users with real-time totals for both income and expenses. The application also computes the final balance dynamically, providing users with immediate insight into their financial status. This automated calculation process ensures that users receive up-to-date and accurate information as they continue inputting their financial data, contributing to a more efficient and responsive user experience.

Figure 6: Summary statistics

3.5. Data filtering and search

Users have the capability to efficiently locate specific data within the application by utilizing a robust search functionality. Moreover, they can tailor their data viewing experience to meet their specific requirements through the application of various filters. These filters cover a complete range, including date range, type (income and expense), recurrence (daily, weekly, monthly, etc.), and category (utilities, primary income, food, etc.).

This user-friendly feature allows individuals to refine their data display, ensuring a more focused and personalized overview of their financial information. Whether users want to view transactions within a specific time frame, distinguish between income and expense entries, analyse recurring patterns, or categorize income and expenditures, the application's flexible filtering system provides a seamless and customizable experience, aligning with the unique preferences and needs of each user.

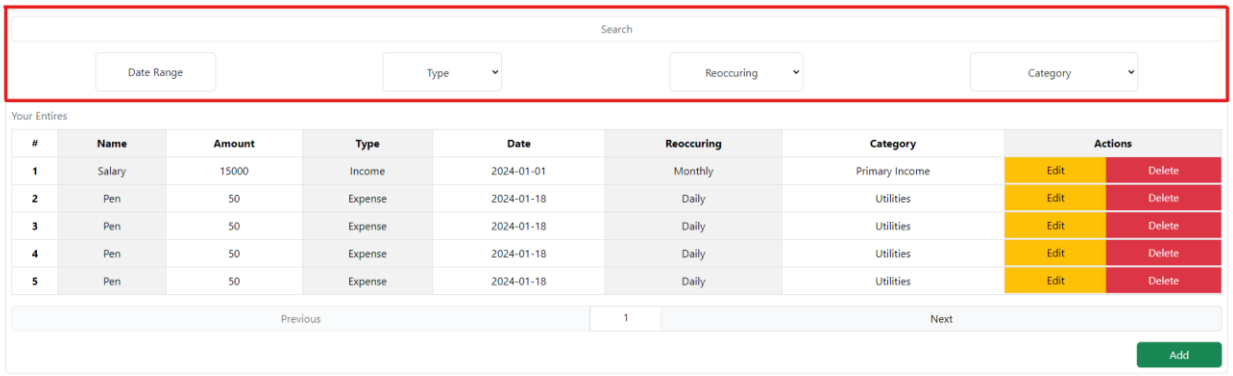

Figure 7: Filters

3.6. Paginated data

As per the requirements, the application successfully implements a paginated format for displaying data. This feature enhances the user experience by breaking down the information into manageable sections, allowing users to navigate through their data conveniently. The paginated display reflects a thoughtful design approach, ensuring that users can easily access and explore their financial information in a structured and user-friendly manner.

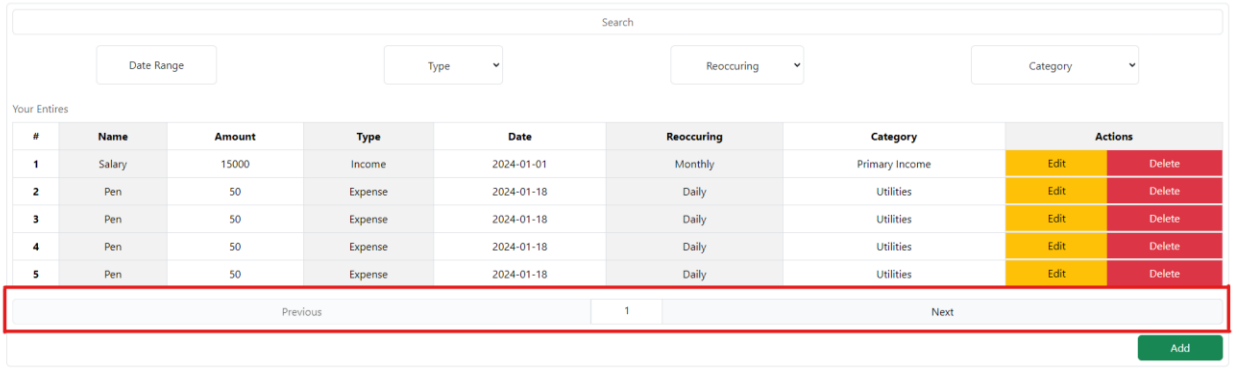

Figure 8: Pagination

3.7. Local storage

According to the specified requirement, the application adheres to a local storage approach for data management. This means that all user details, including financial data, are stored locally within the application.

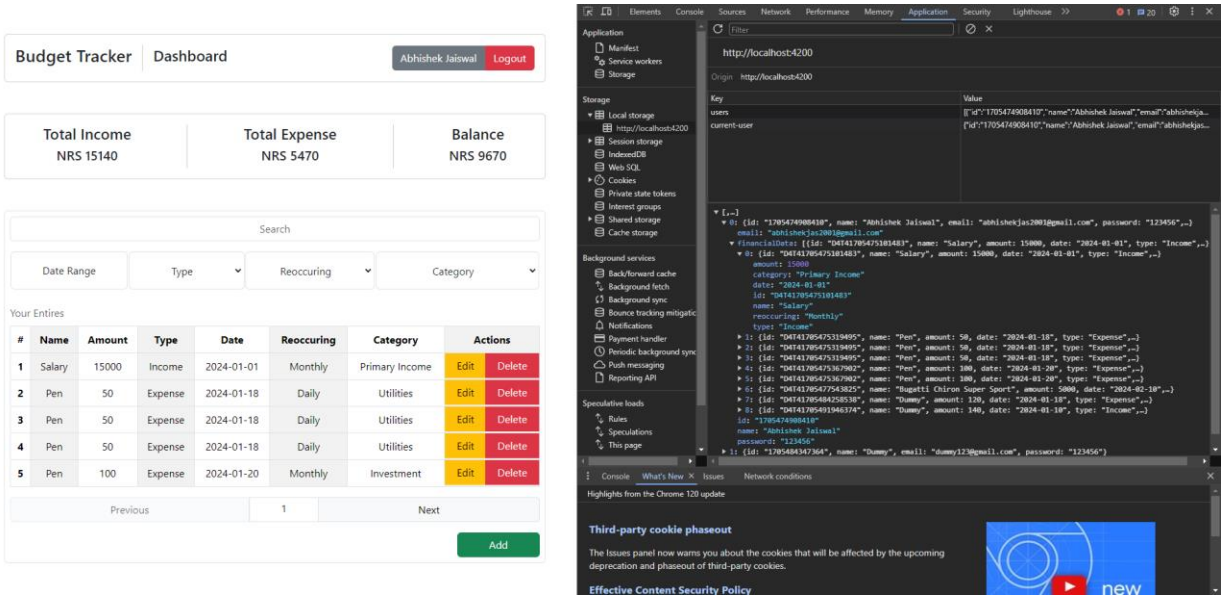

Figure 9: Data stored in local storage

4. Code Organization

The codebase of the Budget Tracker application is organized to maintain clarity, modularity, and ease of maintenance. The directory structure aims to enhance the developer experience. Below is key directories and their contents:

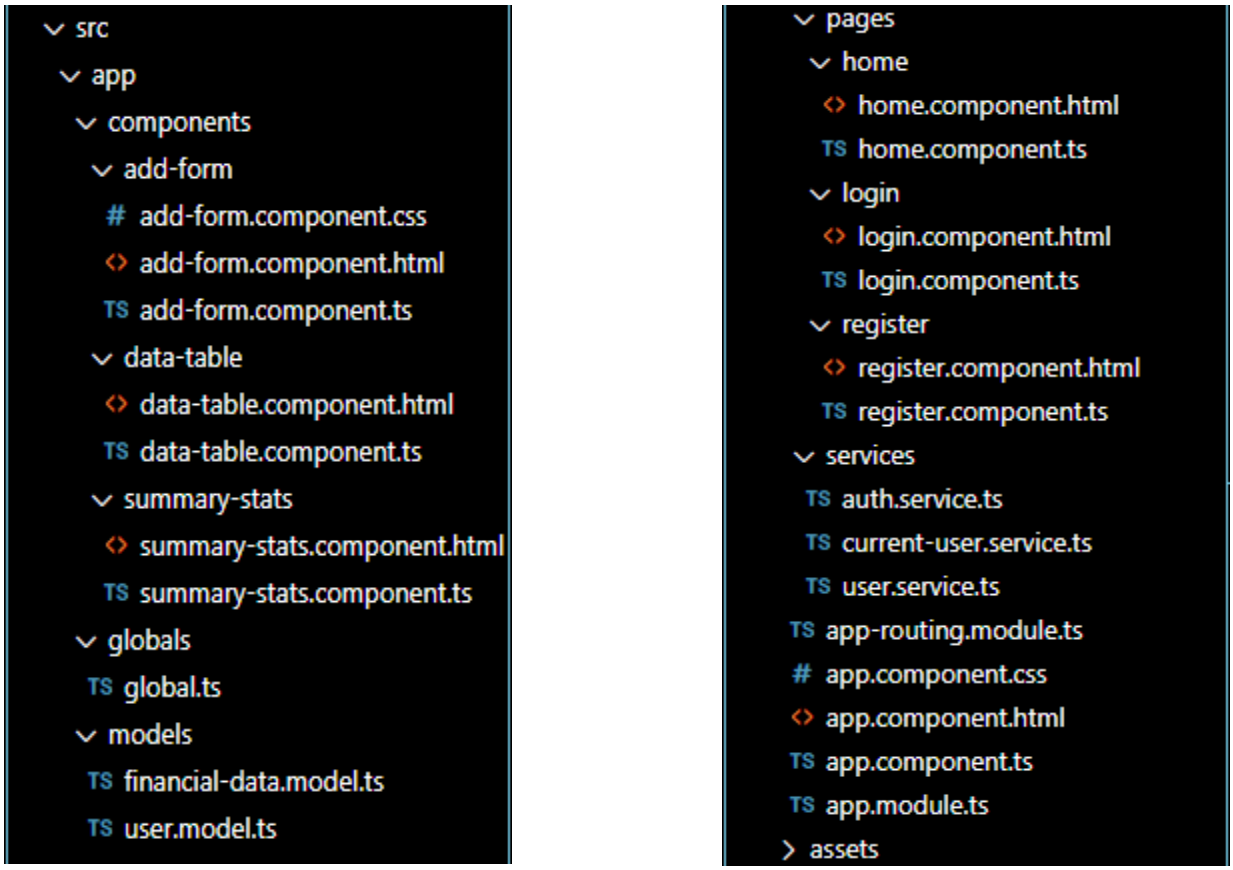

Figure 10: Folder Structure

5. Conclusion

In conclusion, through the deliberate use of Angular and my overall coding knowledge, the application's design, features, and functionality speak volumes about my capabilities. Through the development process, I aimed not only to meet the requirements but also to showcase a comprehensive understanding of Angular and demonstrate my capacity to apply coding best practices effectively. This task served as a valuable opportunity to exhibit my skills and growth in the field, and the resulting application stands as a testament to my capabilities in meeting and exceeding coding expectations.