



 slington college
(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.

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.

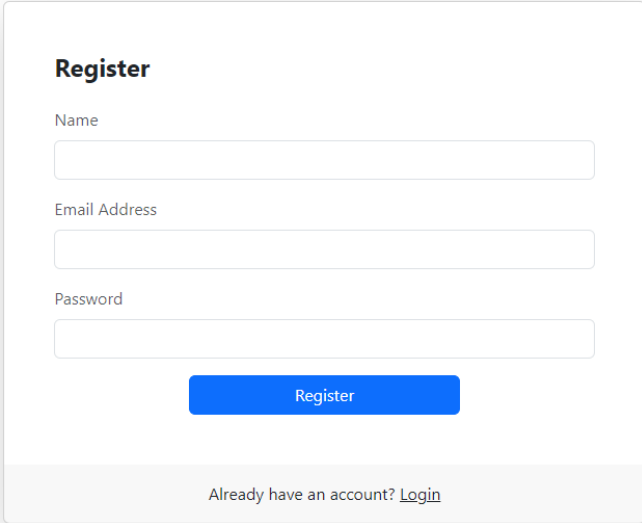
3. Key Features

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.

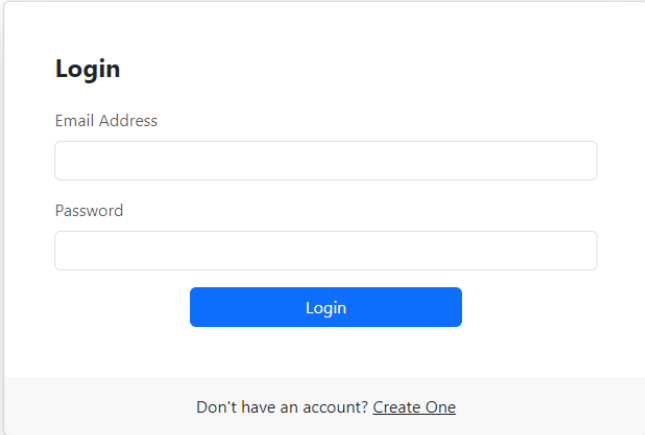


The image shows a registration form titled "Register". It contains three input fields: "Name", "Email Address", and "Password". Below the "Password" field is a blue button labeled "Register". At the bottom of the form, there is a link that says "Already have an account? [Login](#)".

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.



The image shows a login form with a white background and a light gray border. At the top, the word "Login" is written in bold. Below it, there are two input fields: "Email Address" and "Password". Each field has a small label above it. Below the "Password" field is a blue button with the word "Login" in white. At the bottom of the form, there is a link that says "Don't have an account? [Create One](#)".

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.

Budget Tracker

Dashboard

Abhishek JaiswalLogout

Total Income
NRS 15140

Total Expense
NRS 5870

Balance
NRS 9270

Search

Date Range

Type

Reoccurring

Category

Your Entries

#	Name	Amount	Type	Date	Reoccurring	Category	Actions	
1	Salary	15000	Income	2024-01-01	Monthly	Primary Income	Edit	Delete
2	Pen	50	Expense	2024-01-18	Daily	Utilities	Edit	Delete
3	Pen	50	Expense	2024-01-18	Daily	Utilities	Edit	Delete
4	Pen	50	Expense	2024-01-18	Daily	Utilities	Edit	Delete
5	Pen	50	Expense	2024-01-18	Daily	Utilities	Edit	Delete

Previous

1

Next

Add

Figure 3: Dashboard

Name

Amount

Date
mm/dd/yyyy

Type

Reoccurring

Category

Submit

Cancel

Figure 4: Data input form

Edit

Name

Amount

Date
01/01/2024

Income

Monthly

Primary Income

Submit

Cancel

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.

Total Income NRS 15140	Total Expense NRS 5870	Balance NRS 9270
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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.

The screenshot shows a web application interface for managing transactions. At the top, there is a search bar and four filter controls: 'Date Range', 'Type' (dropdown), 'Reoccurring' (dropdown), and 'Category' (dropdown). Below these filters is a table titled 'Your Entries'. The table has columns for '#', 'Name', 'Amount', 'Type', 'Date', 'Reoccurring', 'Category', and 'Actions'. The 'Actions' column contains 'Edit' and 'Delete' buttons for each entry. The table displays five entries: a salary of 15000, and four expenses of 50 each. Below the table is a pagination bar with 'Previous', '1', and 'Next' buttons, and an 'Add' button at the bottom right.

#	Name	Amount	Type	Date	Reoccurring	Category	Actions
1	Salary	15000	Income	2024-01-01	Monthly	Primary Income	Edit Delete
2	Pen	50	Expense	2024-01-18	Daily	Utilities	Edit Delete
3	Pen	50	Expense	2024-01-18	Daily	Utilities	Edit Delete
4	Pen	50	Expense	2024-01-18	Daily	Utilities	Edit Delete
5	Pen	50	Expense	2024-01-18	Daily	Utilities	Edit Delete

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.

This screenshot is identical to Figure 7, showing the same filters and table. However, a red box highlights the pagination bar at the bottom of the table, which includes 'Previous', '1', and 'Next' buttons, and an 'Add' button at the bottom right.

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.

Budget Tracker

Dashboard

Abhishek Jaiswal

Logout

Total Income

NRS 15140

Total Expense

NRS 5470

Balance

NRS 9670

Search

Date Range

Type

Recurring

Category

Your Entries

#	Name	Amount	Type	Date	Recurring	Category	Actions
1	Salary	15000	Income	2024-01-01	Monthly	Primary Income	<div>Edit</div> <div>Delete</div>
2	Pen	50	Expense	2024-01-18	Daily	Utilities	<div>Edit</div> <div>Delete</div>
3	Pen	50	Expense	2024-01-18	Daily	Utilities	<div>Edit</div> <div>Delete</div>
4	Pen	50	Expense	2024-01-18	Daily	Utilities	<div>Edit</div> <div>Delete</div>
5	Pen	100	Expense	2024-01-20	Monthly	Investment	<div>Edit</div> <div>Delete</div>

Previous

1

Next

Add

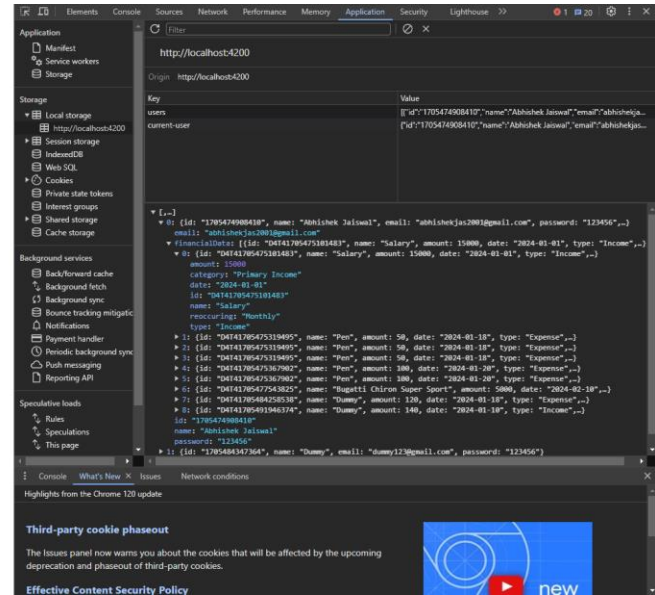


Figure 9: Data stored in local storage