Assignment 06

Training Program: MERN Stack Development

Trainer: Ahsan Javed

Topic: JavaScript Basics

Due Date: August 19, 2024

Assignment: Daily Expense Tracker Command-Line Application

Objective:
Create a command-line application using JavaScript that allows users to track their daily expenses. This application will help users manage their finances by adding, viewing, updating, and deleting expense entries.

Setup:

- Use any text editor, such as Visual Studio Code.
- Save your project in a file named `expenseTracker.js`.

Data Structure:

- Store each expense entry as an object in an array.
- Each object should have properties like `id`, `description`, `amount`, and `date`.

Features to Implement:

1. **Add Expense**:

   ◦ Prompt the user to enter the expense description, amount, and date.
   ◦ Add this data as a new object to the array.

2. **View Expenses**:

   ◦ Display all expenses with their IDs, descriptions, amounts, and dates.

3. **Update Expense**:

   ◦ Allow the user to update the description and amount of an existing expense by entering its ID.

4. **Delete Expense**:

   ◦   Allow the user to delete an expense by entering its ID.
5. **View Total Expenditure**:

   ◦   Calculate and display the total amount spent, based on the expenses recorded.
6. **Exit**:

   ◦   Provide an option for the user to exit the application.

User Interaction:

- Utilize `prompt()` for user inputs and `console.log()` for outputs.
- Create a user-friendly menu to navigate through options: Add, View, Update, Delete, Total Expenditure, and Exit.

Error Handling and Validation:

- Ensure the application can handle invalid inputs like non-existent IDs and incorrect data formats gracefully.

Documentation and Comments:

- Comment your code extensively to explain functions and logic.
- Include a brief user manual in the script comments detailing how to use the application.

Submission Guidelines

- Create a JS file and write code in it. Save it as **fname-lname-a-06.js**, where fname is your first name and lname is your last name.

- Send the file at ahsanjaved@skilovate.com with subject **Assignment 06**.