

React.js Mini Project

Expense Management System

Course: Web Development / React.js

Project Type: Practical / Mini Project

Time Duration: As per instructor

Total Marks: As per evaluation scheme

Instructions to Students

1. Read all tasks carefully before starting the project.
 2. This project must be developed using **React.js**.
 3. The application should be simple, user-friendly, and beginner-level.
 4. Proper component structure must be followed.
 5. All functionalities must work correctly.
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Project Title

Expense Management System Using React.js

Student Tasks (Functional Requirements)

Task 1: Create Project Interface

- Create a main screen with the title “**Expense Management System**”.
 - Design a simple and clean layout.
 - Divide the screen into:
 - Expense input section
 - Expense display section
 - Total expense section
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Task 2: Add Expense Functionality

- Create a form to add a new expense.
 - The form must include:
 - Expense Name
 - Expense Amount
 - Expense Date
 - Expense Category
 - Add a button labeled “**Add Expense**”.
 - When clicked, the expense should be added to the list.
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Task 3: Input Validation

- Do not allow empty input fields.
 - Ensure the amount entered is greater than zero.
 - Display a simple error message for invalid input.
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Task 4: Display Expense List

- Display all added expenses in a list format.
 - Each expense should show:
 - Name
 - Amount
 - Date
 - Category
 - If no expenses exist, show a message “**No expenses found**”.
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Task 5: Delete Expense

- Add a **Delete** button for each expense.
 - When clicked, the selected expense should be removed from the list.
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Task 6: Edit Expense (Optional)

- Allow the user to edit an existing expense.
- Updated expense details should replace the old data.

Task 7: Calculate Total Expense

- Display the total amount of all expenses.
 - The total should update automatically when:
 - An expense is added
 - An expense is deleted
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Task 8: Filter Expenses

- Provide an option to filter expenses by:
 - Date
 - Category
 - Display only the filtered expenses.
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Task 9: Sort Expenses

- Allow sorting of expenses by:
 - Amount
 - Date
 - Sorting should update the list instantly.
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Task 10: Store Data Locally

- Save expense data in browser local storage.
 - Expenses should remain after page refresh.
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Task 11: Clear All Expenses

- Add a **Clear All** button.
 - Ask for confirmation before removing all expenses.
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Task 12: Responsive Design

- Ensure the application works on:
 - Mobile screens
 - Tablet screens
 - Desktop screens
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Task 13: User Feedback Messages

- Show messages for:
 - Successful expense addition
 - Expense deletion
 - Errors or invalid input
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Task 14: Accessibility Basics

- Use proper labels for input fields.
 - Buttons should have clear names.
 - Application should be keyboard accessible.
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Evaluation Criteria (Suggested)

- Correct implementation of functionalities
 - Proper use of React components and state
 - Clean UI design
 - Code readability
 - Error handling and validation
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Submission Guidelines

- Submit complete React project folder.
 - Include:
 - Source code
 - Screenshots of application
 - SRS document (if required)
 - Late submissions may not be accepted.
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End of Question Paper

Best of luck.