

**COIMBATORE INSTITUTE OF TECHNOLOGY**  
*(Autonomous Institution Affiliated to Anna University)*



**19MAM57 –FULL STACK DEVELOPMENT LAB**

**TITLE : TRAVEL TOES – A TRAVEL EXPENSE MANAGER**

**SUBMITTED TO:**

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## **ABSTRACT:**

"TRAVEL TOES" is a travel expense management application that helps users plan and track their travel budgets with ease. The app features a user-friendly interface with login and signup options, followed by a home page where users can input travel details like destination, total budget, and duration to generate an expense planner. The expense tracker allows users to log daily expenses, categorize them, and visualize their spending through charts. A budget management page helps users monitor their remaining budget, customize insights with widgets, and track spending progress with a visual progress bar. Additionally, users receive helpful tips for better expense and budget management throughout the application.

## **MODULES WITH EXPLANATION:**

### **1. User Authentication Module:**

Manages secure user login and signup using JWT for session handling, ensuring personalized access to data and trips.

### **2. Travel Planning Module:**

Allows users to input travel details (destination, places, budget, days) and generates an expense planner, supporting multiple trips.

### **3. Expense Tracker Module:**

Users can add expenses by selecting dates, amounts, and categories (including manual entries). It provides a summary of daily and total expenses.

### **4. Expense Summary and Analytics Module:**

Summarizes daily and overall expenses with visualizations like line charts for spending trends and pie charts for category breakdowns.

### **5. Budget Management Module:**

Displays remaining budget based on tracked expenses and offers customizable widgets for insights like top spending categories. It includes a progress bar for budget tracking.

## **6. Custom Widget Module:**

Allows users to add, remove, and customize widgets for tracking budget and expenses, making the interface more personalized.

## **7. Spending Trends & Visualization Module:**

Provides real-time visual insights with line and pie charts to track spending trends and category allocations.

## **8. Tips and Recommendations Module:**

Offers tips for better expense and budget management based on user behavior and financial status throughout the app.

## **9. Downloadable Reports Module:**

Generates downloadable expense reports in PDF form, summarizing trip expenses and budget utilization.

## **10. Notifications and Reminders Module:**

Sends reminders for unlogged expenses and alerts when nearing budget limits, helping users stay on track with their finances.

## **SOFTWARES USED:**

### **1. Frontend:**

- **React.js:** Used for building the user interface, ensuring dynamic and efficient rendering of components.
- **HTML:** Provides the structure of the web pages and content.
- **CSS:** Styles the application to ensure a visually appealing and responsive design.

### **2. Backend:**

- **Node.js:** A runtime environment that executes JavaScript on the server, enabling communication between frontend and backend.

- **Express.js:** A lightweight framework that simplifies backend development by handling routing, middleware, and HTTP requests.

### 3. Database:

- **MongoDB:** A NoSQL database that stores user and trip data in a flexible format, offering scalability and ease of use for dynamic data management.

### 4. Charting Libraries:

- **Chart.js or D3.js:** These libraries are used for creating visualizations like line charts and pie charts to display spending trends and category breakdowns.


### 5. Others:

- **Git:** A version control system used to manage and track code changes, facilitating collaboration and development history management.

## GUI SCREENSHOTS:

### *SignUp Page:*

## Login Page:

 **TRAVEL TOES**

Home Expense Tracker Budget Management Signup **Login**


### Login

Login

New user? [Sign up here](#)

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## Home Page:

 **TRAVEL TOES**

Home Expense Tracker Budget Management Signup Login

## Welcome to Travel Toes

Your ultimate expense tracker and budget management tool.

Delete

Add Another City

Generate Expense Planner

To explore more, click on the below buttons:

Go to Expense Tracker

Go to Budget Management

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## Expense Tracker Page:



TRAVEL TOES

[Home](#) [Expense Tracker](#) [Budget Management](#) [Signup](#) [Login](#)

### Expense Tracker

Update Expense

### Daily Expense Summary

2024-10-03: Total Expenses = ₹560.00

◦ ₹560 - Food [Edit](#)

2024-10-10: Total Expenses = ₹1050.00

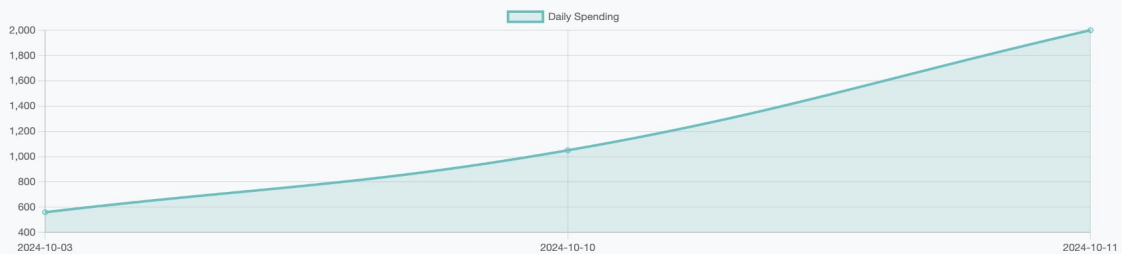
◦ ₹1050 - Accommodation [Edit](#)

2024-10-11: Total Expenses = ₹2000.00

◦ ₹2000 - Gave to frnd [Edit](#)

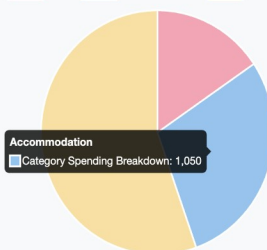
Add Next Date

### Spending Trends



### Category Spending Breakdown

Food Accommodation Gave to frnd



Total Expenses: ₹3610.00

### Tips for Better Expense Management

Create a daily budget and stick to it.

Track all your expenses in real time.

Limit impulse spending by categorizing expenses.

Review your spending at the end of each day.

Use cashback and rewards programs to save money.

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## **CURRENT STATUS OF THE PROJECT:**

- **Completed Features:**

- User login and signup functionality
- Home page for adding travel details and generating expense planner
- Expense tracker with date selection, category management, and daily expense summary
- Spending trends line chart and category spending breakdown pie chart
- Tips for better expense management

- **In Progress:**

- Budget manager page with trip selector and remaining budget calculation
- Customizable widget features for user insights

- **Upcoming Features:**

- Drag-and-drop interface for widget customization
- Progress bar with segmented categories and tooltips for detailed spending information
- Additional tips for better budget management

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