TravelPlanner – Project Report

Student Information

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B.Tech in Computer Science and Engineering

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Subject: Web Technologies with .NET

1. Introduction

The TravelPlanner web application is designed to simplify and digitalize the process of planning trips. It allows users to register, log in, and manage their travel itineraries in an organized and interactive manner. Users can add, edit, or delete trips, view trip details such as destination, dates, and activities, and explore sample demo trips included in the application. The system is implemented using ASP.NET Core MVC for the backend, SQLite for data storage, and Bootstrap for a responsive and modern user interface.

2. Objectives

• Develop a web-based trip management system using ASP.NET Core MVC.
• Provide secure authentication and session management.
• Enable CRUD operations for trips and itineraries.
• Use SQLite for local data storage and easy setup.
• Demonstrate MVC architecture for academic and real-world use.

3. Technologies Used

Component	Technology
Frontend	HTML, CSS, Bootstrap
Backend	ASP.NET Core MVC (C#)
Database	SQLite
Authentication	BCrypt password hashing
.NET Framework	.NET 8.0 SDK
IDE	Visual Studio 2022 / Visual Studio Code

4. System Features

• User Authentication (Login & Signup)
• Demo Account: Email - demo@travelplanner.com | Password - demo123
• Create, Edit, View, and Delete Trips
• Manage daily itineraries and notes

• Responsive UI with Bootstrap
• SQLite database with auto-seeding
• Sample trips: Paris Getaway, Tokyo Adventure, New York Explorer

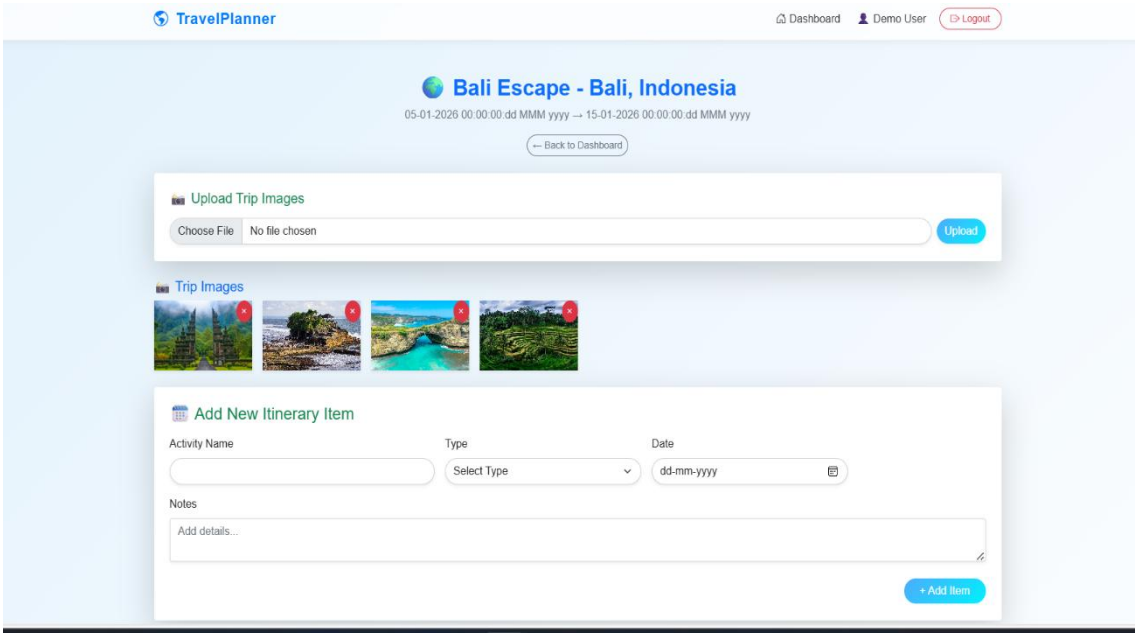
5. How to Run the Project

1. Install .NET 8 SDK.
2. Open the project folder in Visual Studio or VS Code.
3. Open the terminal in the project directory.
4. Run the command: dotnet run
5. Open the displayed localhost link in your browser.
6. Login with demo credentials: demo@travelplanner.com / demo123
7. Explore, add, or edit trips.

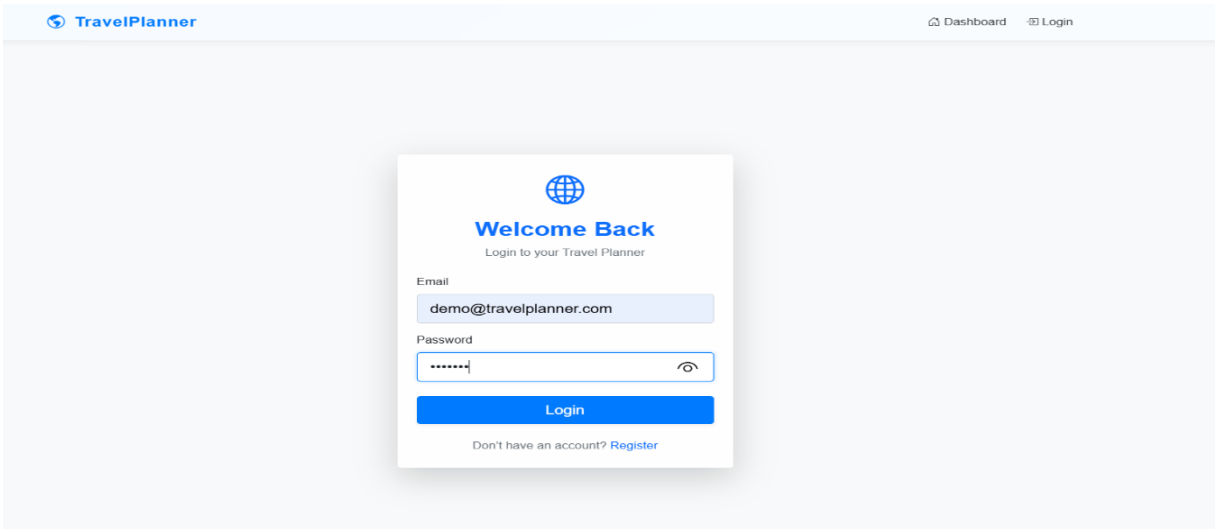
6. Database Information

The application uses SQLite as its local database (travelplanner.db). It automatically creates the database and inserts sample data on first run. It contains one demo user and trips like Paris Getaway, Tokyo Adventure, and New York Explorer.

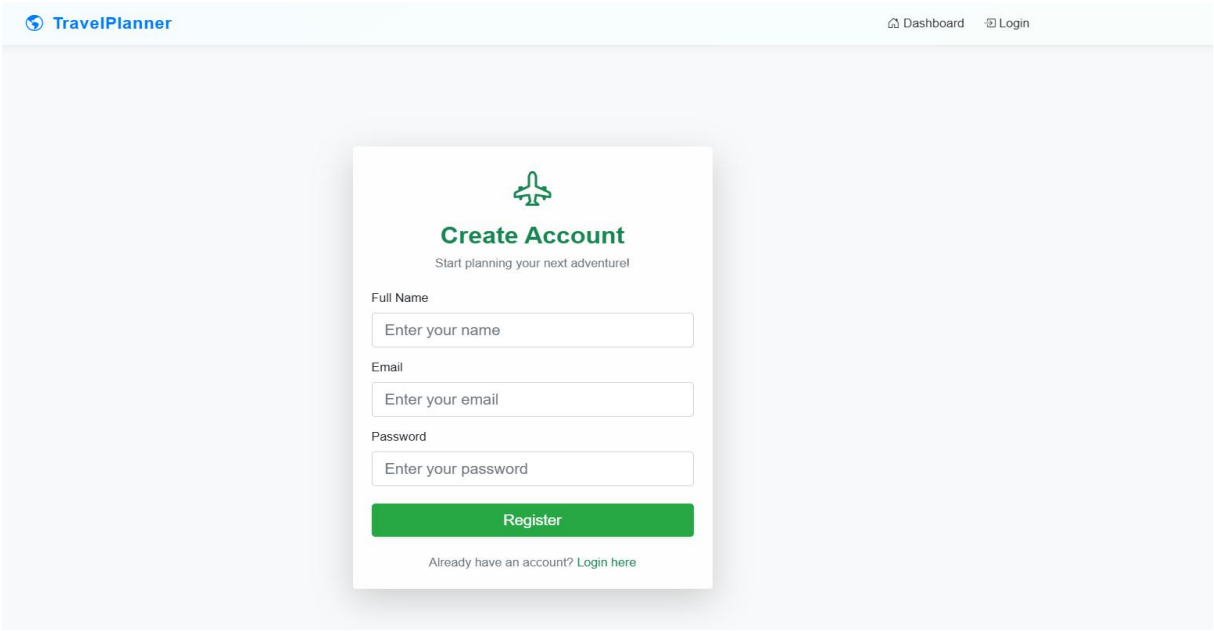
7. Screenshots



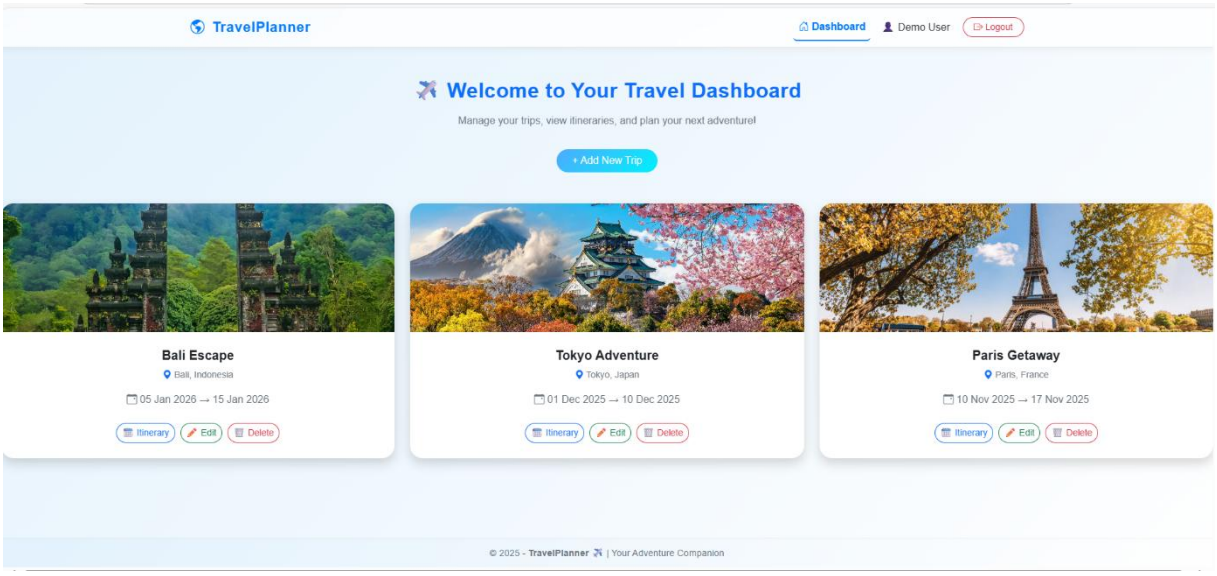
(Itinerary page of a trip)



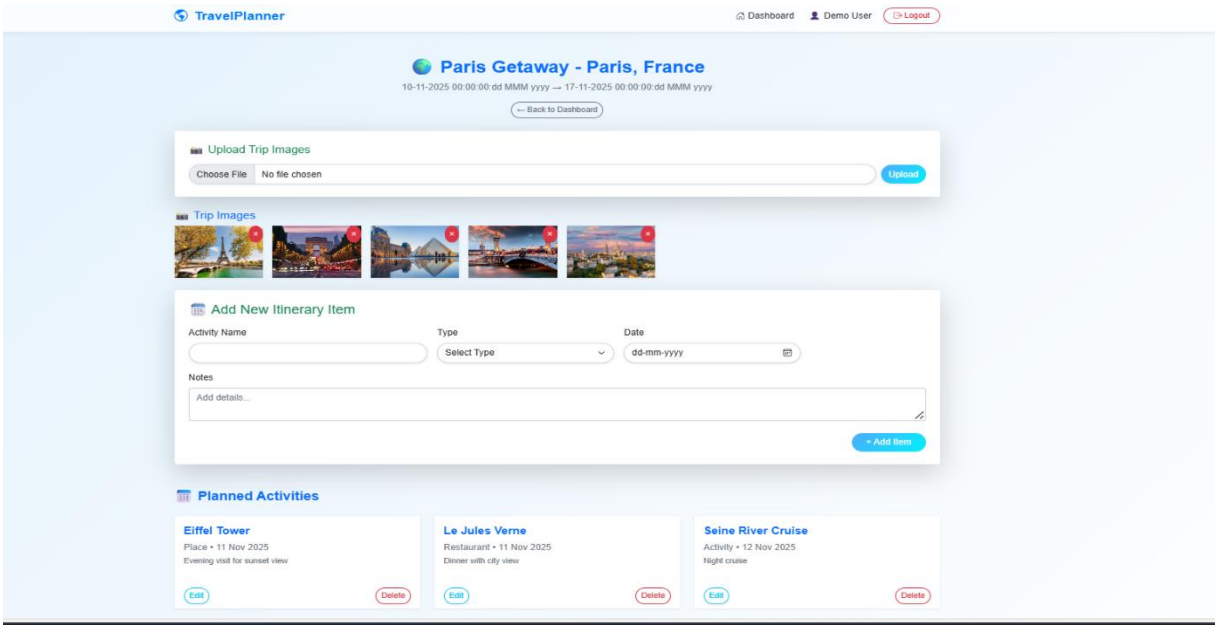
(Login page)



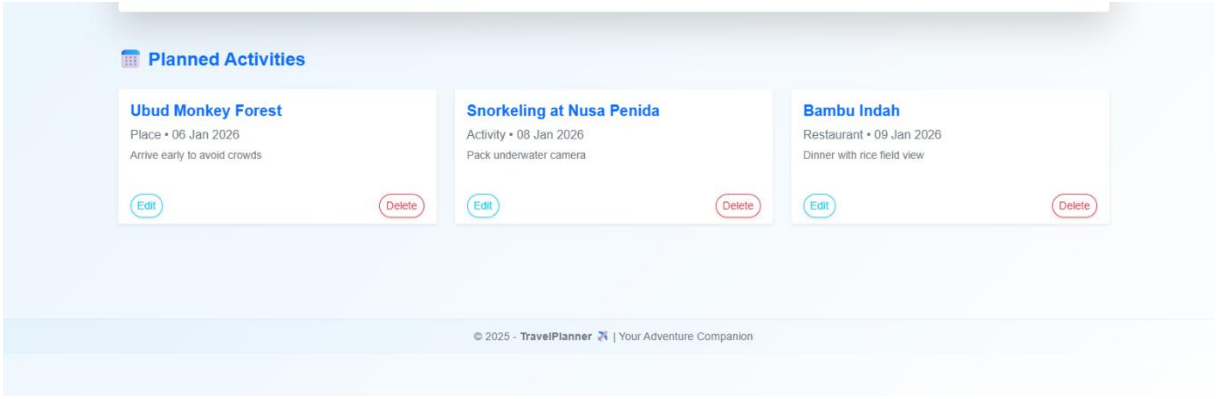
(Registration Page)



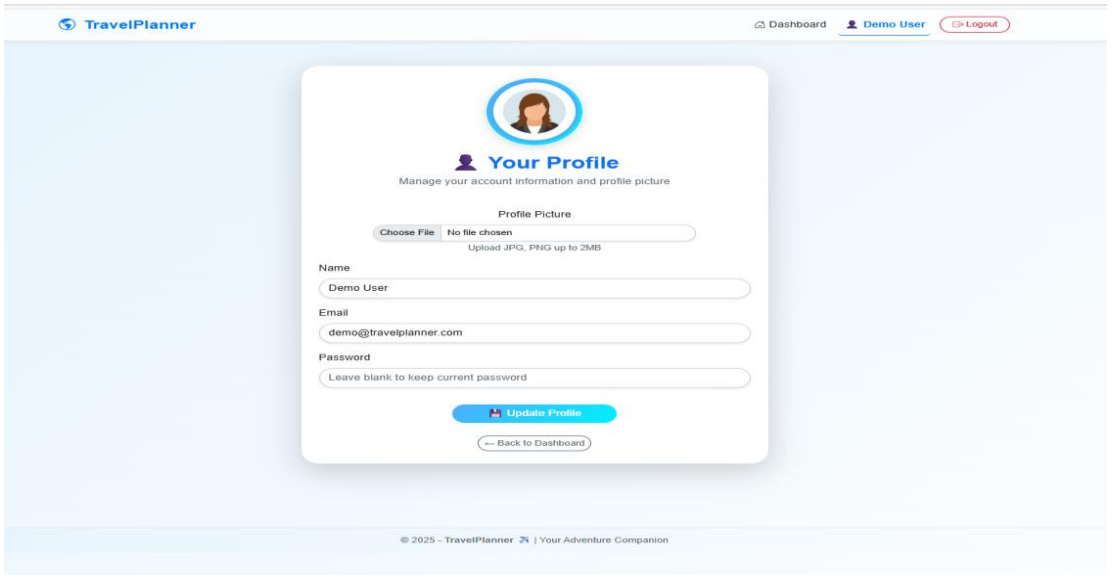
(Dashboard)



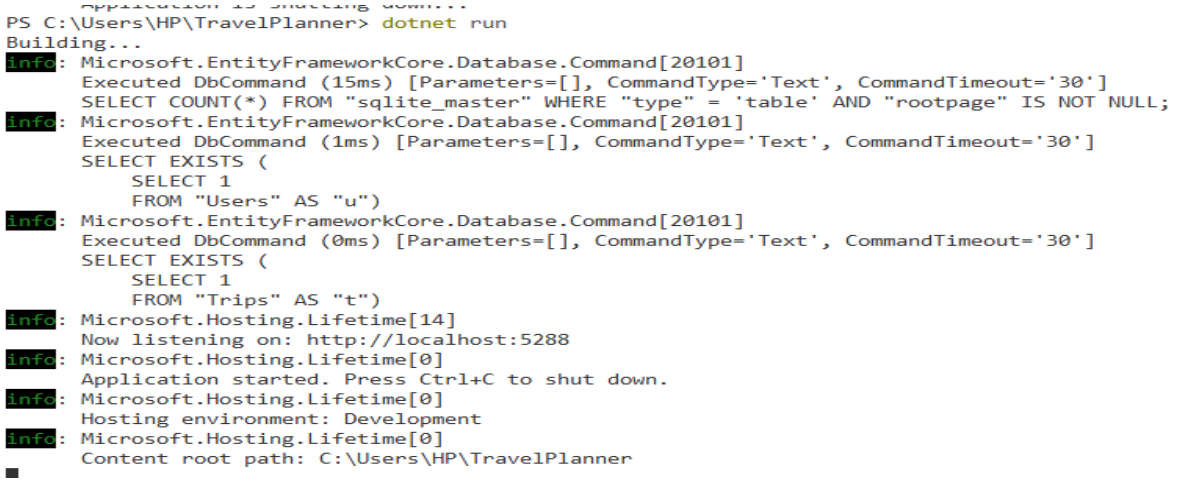
(Itinerary page of different trips)



(Planned Activites)



(Profile page)



(Running on http://localhost:5288)

8. Conclusion

The TravelPlanner project demonstrates full-stack development using ASP.NET Core MVC with SQLite. It integrates user authentication, CRUD operations, and responsive UI to deliver a practical trip management web app. The project enhances understanding of web application architecture and backend integration with .NET.

9.Developer Details

Developed by: Aastha Pandey Email:

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GitHub Repository: https://github.com/Aastha0209/TravelPlanner