Green University of Bangladesh

Department of Computer Science and Engineering (CSE)
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Travel Tour Website

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Lab Project Status	
Marks:	**Signature:**
Comments:	**Date:**

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Chapter 1

Introduction

1.1 Overview

With the growth of online services, many people now prefer booking their trips online. This project aims to create a travel tour website where users can easily find, plan, and book different types of tours. The site will offer various tours, such as adventure trips, cultural experiences, and relaxing getaways, to suit different interests and budgets

1.2 Motivation

We chose to create a travel tour website because we are passionate about travel and want to help people explore new places easily. With so many options available online, we believe there's a need for a user-friendly site that makes planning trips simple and fun.

We also noticed that many existing travel websites can be complicated, making it hard for users to find the right tours. By building this website, we aim to provide a clear and organized platform where users can discover various tours, read reviews, and get helpful travel tips.

This project allows us to combine our interests in web development and travel while providing a useful resource for fellow travelers. [**?**].

1.3 Problem Definition

1.3.1 Problem Statement

Many travelers find it hard to plan their trips online due to complicated and confusing travel websites. These sites often make it difficult to discover suitable tours and read real reviews, which can lead to frustration and missed opportunities for great experiences.

Our project aims to solve this problem by creating a travel tour website that is easy to use, helps users find and book tours, and provides helpful information and reviews.

We want to make travel planning simpler and more enjoyable for everyone.

1.3.2 Complex Engineering Problem

The following Table 1.1 shows the key attributes related to the travel tour website:

Table 1.1: Summary of the attributes touched by the travel tour website

Name of the P Attributess	Explain how to address
P1: Depth of knowledge required	Understanding how to build a user-friendly travel website using web development skills.
P2: Range of conflicting requirements	Balancing what users need (easy navigation, quick info) with what tour providers need (detailed listings, booking tools.
P3: Depth of analysis required	Analyzing what travelers want to create a site that meets their needs and makes booking easy.
P4: Familiarity of issues	Dealing with problems like data security and user privacy to ensure a safe online experience.
P5: Extent of applicable codes	Using programming languages like HTML, CSS, and JavaScript, along with backend technologies like Node.js or PHP to build the site.

1.4 Design Goals/Objectives

The main goals and objectives for designing the travel tour website are as follows:

1.User-Friendly Interface: Create a clean and intuitive layout that makes it easy for users to navigate and find the information they need quickly.

2.Responsive Design: Ensure the website works well on all devices, including desktops, tablets, and smartphones, providing a seamless experience for all users.

3.Comprehensive Tour Listings: Provide detailed information about various tours, including descriptions, itineraries, pricing, and user reviews to help users make informed decisions.

4.Secure Booking System: Implement a safe and reliable booking and payment system that protects users' personal and financial information.

5.Search and Filter Options: Enable users to easily search for tours based on their preferences, such as destination, price range, and type of activity.

By achieving these goals, we aim to create a travel tour website that not only meets user needs but also enhances their overall travel planning experience.

1.5   Application

The travel tour website will help travelers easily find and book tours that fit their interests. Users can search for trips, read reviews, and make secure online bookings. Tour providers can showcase their tours, manage bookings, and connect with customers through the site. Families can plan group trips and access important information about each tour. Travel agencies can streamline their booking processes and manage client requests. Overall, the website will be a helpful tool for both travelers and tour providers, making the travel planning experience smoother and more enjoyable.

Chapter 2

Design/Development/Implementation of the Project

2.1 Introduction

With the growth of online services, many people now prefer booking their trips online. This project aims to create a travel tour website where users can easily find, plan, and book different types of tours. The site will offer various tours, such as adventure trips, cultural experiences, and relaxing getaways, to suit different interests and budgets [?] [?] [?].

2.2 Project Details

This section elaborates on the specific details of the "Travel Tour Website" project.

2.2.1 Features Overview

User Registration/Login: Allows users to create accounts and log in to the website.

Package Booking: Users can choose and book travel packages according to their preferences.

Booking Confirmation: Once the booking details are processed, users receive confirmation of their booking.

2.2.2 Technologies Used

The project leverages the following technologies:

1.Frontend: HTML, CSS, JavaScript

2.Backend: PHP, MySQL

3..Database: MySQL

2.2.3 Database Design

The database comprises multiple tables:

Users: Stores user credentials and details.

Bookings: Captures user booking information, including chosen packages.

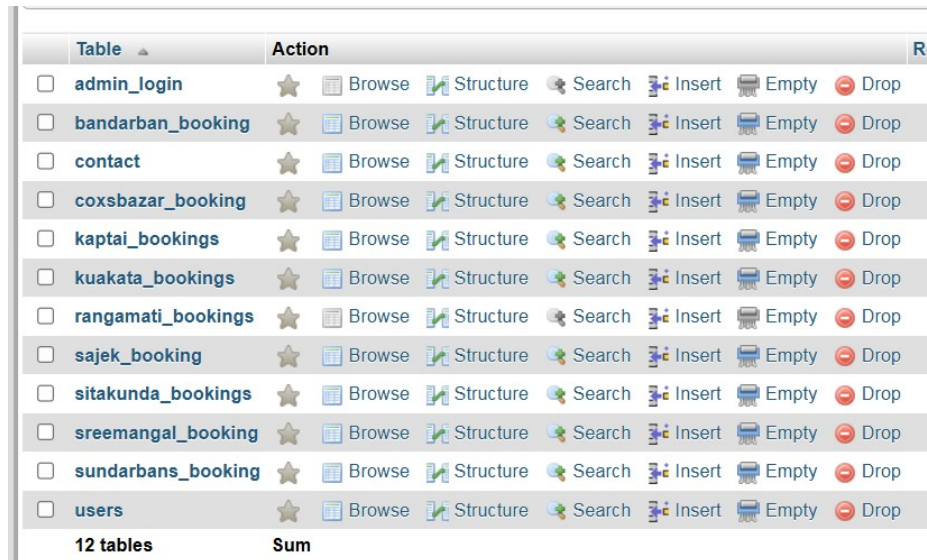Packages: Lists available travel packages with pricing and features.

Table ▲	Action						R
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☐ bandarban_booking	⭐	🔲 Browse	📋 Structure	🔍 Search	⊁ Insert	🗑 Empty	⊖ Drop
☐ contact	⭐	🔲 Browse	📋 Structure	🔍 Search	⊁ Insert	🗑 Empty	⊖ Drop
☐ coxsbazar_booking	⭐	🔲 Browse	📋 Structure	🔍 Search	⊁ Insert	🗑 Empty	⊖ Drop
☐ kaptai_bookings	⭐	🔲 Browse	📋 Structure	🔍 Search	⊁ Insert	🗑 Empty	⊖ Drop
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☐ sitakunda_bookings	⭐	🔲 Browse	📋 Structure	🔍 Search	⊁ Insert	🗑 Empty	⊖ Drop
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12 tables	Sum						

Figure 2.1: database table

2.3 Implementation

this section details the implementation of the "Travel Tour Website" project.

2.3.1 Workflow

The workflow involves the following steps:

1.User Registration/Login

2.Selection of Travel Package

3.Submission of Booking Details

4.Backend Processing and Validation

5.Confirmation and Notification

2.3.2   Tools and libraries

1.Frontend Frameworks: Unicons for icons, CSS for styling

    2.Backend: PHP for server-side scripting

    3.Database Management: MySQL for storing and managing data

2.3.3   Implementation Details

User Signup Interface:

The signup form collects user information such as full name, email, username, and password. It validates input fields and stores the data in the database.
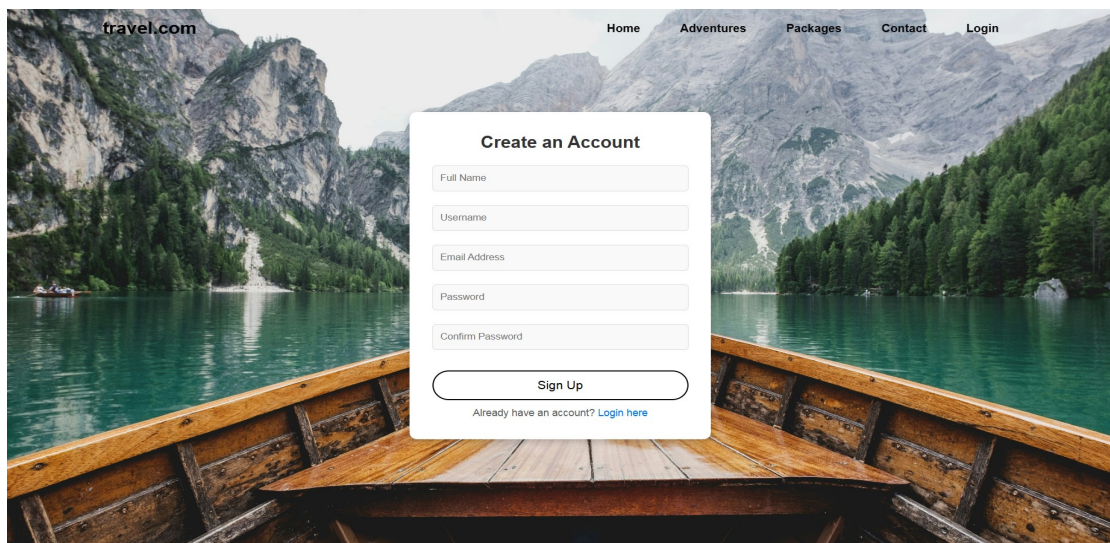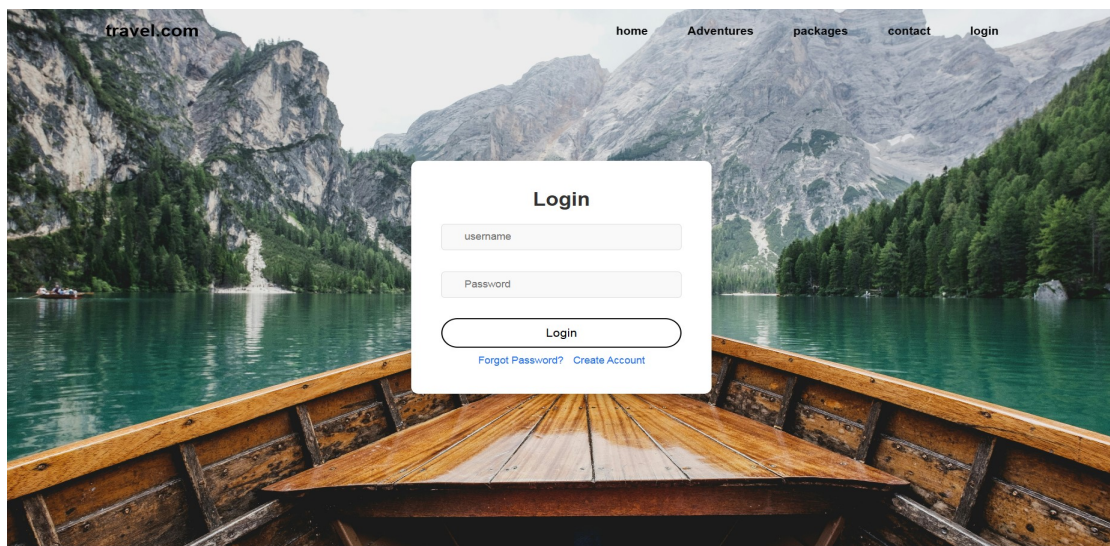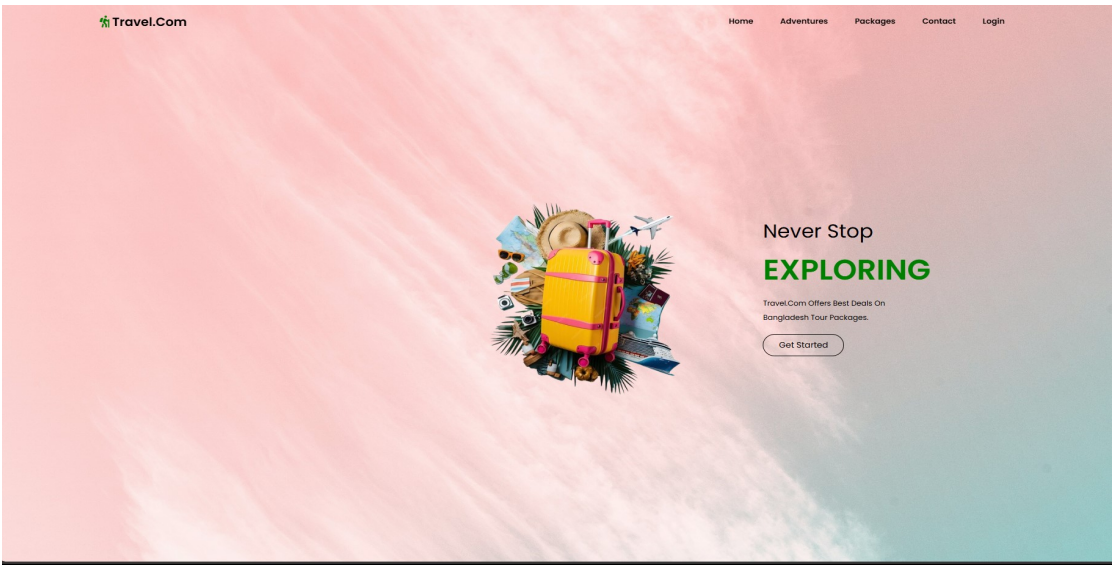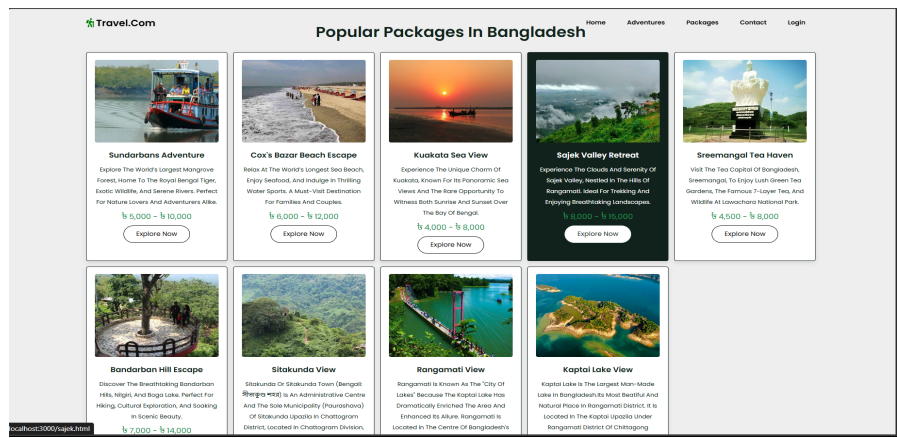

Figure 2.2: Login Interface and Signup Interface

Main Interface:

Package Booking Interface:

Users can book travel packages by filling out a form that includes fields for name, email, phone, package selection, and special requests. The backend validates the user's email and stores the booking information in the database.
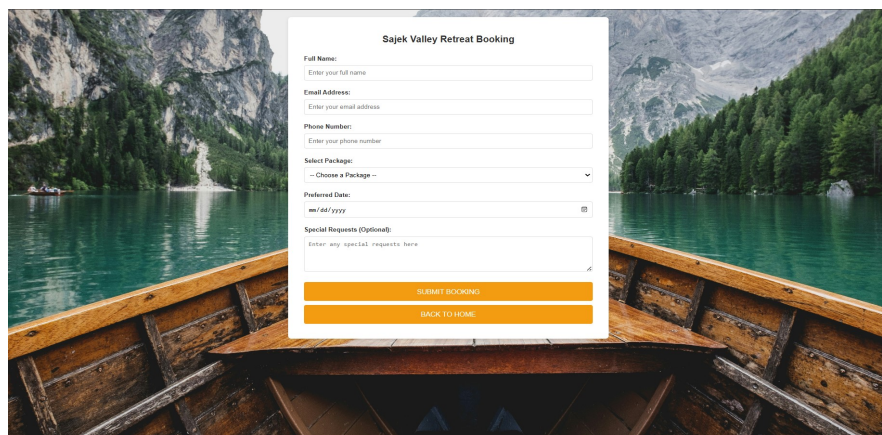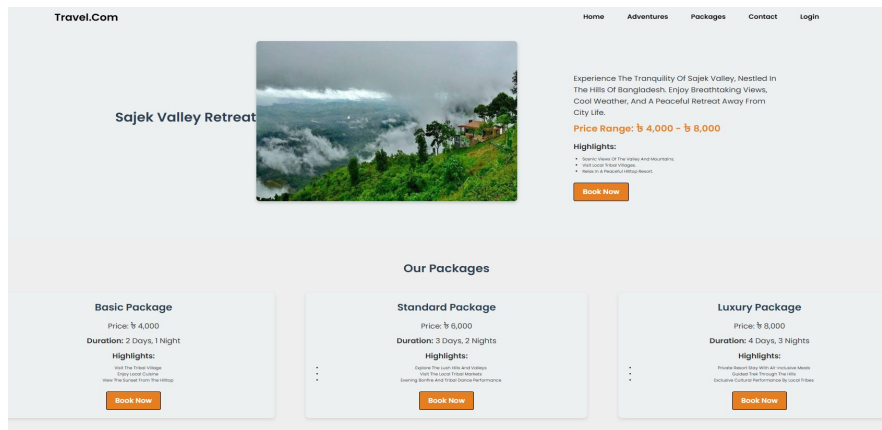
Figure 2.3: package,booking and booking from

sectionBackend Validation: The PHP backend checks for user authentication, ensuring only registered users can book packages. Error handling and success messages are displayed based on user actions.

Database Integration:

MySQL database is used to store user and booking data. Queries are optimized for performance and security.

2.4 Testing and Results

Testing was conducted to ensure the functionality and reliability of the application. Key results include:

1.Successful registration and login of users:

Figure 2.4: Login

Figure 2.5: Create account

2.Successful booking of travel packages:

Booking Successfully Submitted!

Thank you for booking your trip to Cox's Bazar with us. We will contact you shortly with further details.

Back to Home

Figure 2.6: When a user account is created

Login Required

You are not logged in yet. Please login to proceed with the booking.

Go to Login Page

Figure 2.7: when user account not created

Chapter 3

Conclusion

3.1 Discussion

This chapter summarizes the work completed in the "Travel Tour Website" project, where the primary objective was to design a platform that helps travelers plan their trips effectively. The website offers user registration and login functionality, travel package booking, and confirmation, ensuring a seamless experience for users. The results show that the project has successfully enabled users to easily browse available travel packages and make bookings without facing any issues. Testing also demonstrated the reliability of the system, with users able to register, log in, and successfully book packages with accurate processing and validation. Overall, the project has achieved its goals, simplifying travel planning for users.

3.2 Limitations

Despite its success, the "Travel Tour Website" has certain limitations. One of the main limitations is the lack of advanced features such as real-time updates, personalized recommendations, or integration with mapping systems for route planning. Additionally, the website's dependency on manual input for package selection and booking may lead to user errors or inefficiencies. Since the project did not incorporate any algorithms, it lacks optimization in areas such as budget planning or multi-city trip routing, which could be a challenge for users looking for more complex travel solutions. These limitations should be addressed in future versions to enhance the overall user experience and functionality.

3.3 Scope of Future Work

The future work for the "Travel Tour Website" involves expanding its capabilities to offer a more dynamic and personalized experience for users. Future enhancements could include integrating real-time travel updates, notifications, and personalized package suggestions based on user preferences. Additionally, incorporating a Maps API for

visual representation of routes and trip planning would significantly improve the user interface. Another area of expansion could be the development of a dynamic pricing system that adjusts package costs based on demand or availability. With these additions, the project would evolve into a more comprehensive tool for travelers, providing them with enhanced features and greater ease of use.

Chapter 4

References and GitHub Link

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GitHub Link

https://arifbillahmubin.github.io/tour-and-travels/