Project Name:

Tourist Guide Platform

Software Requirements Specification

- **Frontend Technologies: HTML, CSS, Tailwind CSS, Javascript**
- **Backend Technologies: PHP, MySQL**

Course Codes:

INT220 & INT219

Course Name:

Front-End Web Development & Server-Side Scripting

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1. Introduction

This Software Requirements Specification (SRS) outlines the requirements for the development of the *Tourist Guide Platform*. The primary audience includes software engineers, faculty assessors, and stakeholders involved in evaluating the system's implementation and features.

Purpose

What is the purpose of this SRS and the (intended) audience for which it is written.

1.2 Scope

The *Tourist Guide Platform* is a web-based application developed to assist tourists in discovering attractions, booking guides, and managing itineraries.
It provides features like:

- User registration and authentication
- Viewing and reviewing tourist spots
- Creating and booking customized itineraries
- Connecting with local guides

It aims to offer a seamless and secure platform for travel planning in India.
This product does not include mobile app support in its current scope.

1.3 Definitions, Acronyms, and Abbreviations

- UI: User Interface
- SRS: Software Requirements Specification
- PHP: Hypertext Preprocessor
- SQL: Structured Query Language
- CSS: Cascading Style Sheets

1.4 References

IEEE SRS Documentation Guidelines

Tailwind CSS Documentation – https://tailwindcss.com

PHP Documentation – https://php.net

MySQL Documentation – https://dev.mysql.com

1.5 Overview

This document contains the complete specification of the Tourist Guide Platform. It describes general product perspective, functional and non-functional requirements, interface requirements, design constraints, analysis models, and supporting material.

2. General Description

The Tourist Guide Platform is a web-based application designed to help travelers explore tourist attractions, connect with local guides, and create personalized itineraries. It provides features such as booking tours, viewing guide profiles, leaving reviews, and managing travel plans. Built using HTML, Tailwind CSS, JavaScript, PHP, and MySQL, the platform ensures a seamless, responsive, and secure user experience for both tourists and guides.

2.1 Product Perspective

The platform is a standalone web application and serves as a centralized portal for tourists. It interacts with a MySQL database and relies on PHP as the server-side scripting language.

2.2 Product Functions

- Register/login/logout
- Browse destinations
- View guide profiles
- Create and manage itineraries
- Submit and read reviews
- Book tours and guides

2.3 User Characteristics

- Tourists: General internet users
- Guides: Individuals with local knowledge and verified accounts

2.4 General Constraints

- Responsive design required
- Must operate in Chrome, Firefox, and Edge
- MySQL and PHP must be supported on the server

2.5 Assumptions and Dependencies

- Internet access is assumed
- Platform hosted on a PHP-supported server
- Functional email system for communication

3. SPECIFIC REQUIREMENTS

3.1 External Interface Requirements

3.1.1 User Interfaces

- **Clean, responsive interface using Tailwind CSS**
- **Navbar, search bar, booking form, itinerary builder, review system**

3.1.2 Hardware Interfaces

- **No special hardware interfaces required**

3.1.3 Software Interfaces

- **PHP 8.x**
- **MySQL**
- **Apache (via XAMPP)**

3.1.4 Communications Interfaces

- **HTTP/HTTPS protocols**
- **Email for confirmation and updates**

3.2 Functional Requirements

3.2.1 User Registration & Authentication

- **Inputs: Name, email, password**
- **Processing: Validate input, store user in DB**
- **Outputs: Redirect on success**
- **Error Handling: Alert on invalid data**

3.2.2 Itinerary Creation

- Inputs: Destination, date, budget
- Processing: Save itinerary linked to user
- Outputs: Show list of itineraries
- Error Handling: Show alert on missing inputs

3.2.3 Tour Booking

- Inputs: Selected tour, guide, date
- Processing: Save booking entry
- Outputs: Confirmation message
- Error Handling: Show errors for double booking or missing info

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3.5 Non-Functional Requirements

3.5.1 Performance

- Pages load under 2 seconds on average connections

3.5.2 Reliability

- All functions should be available 99% of the time

3.5.3 Availability

- Deployed 24/7 on remote server

3.5.4 Security

- Passwords hashed
- OTP verification for login/signup
- SQL injection prevention

3.5.5 Maintainability

- Modular file structure
- Comments and documentation included

3.5.6 Portability

- Works on all modern browsers and screen sizes

3.7 Design Constraints

- Tailwind CSS for all styling
- PHP procedural style
- No third-party backend frameworks

3.9 Other Requirements

- Video background for homepage

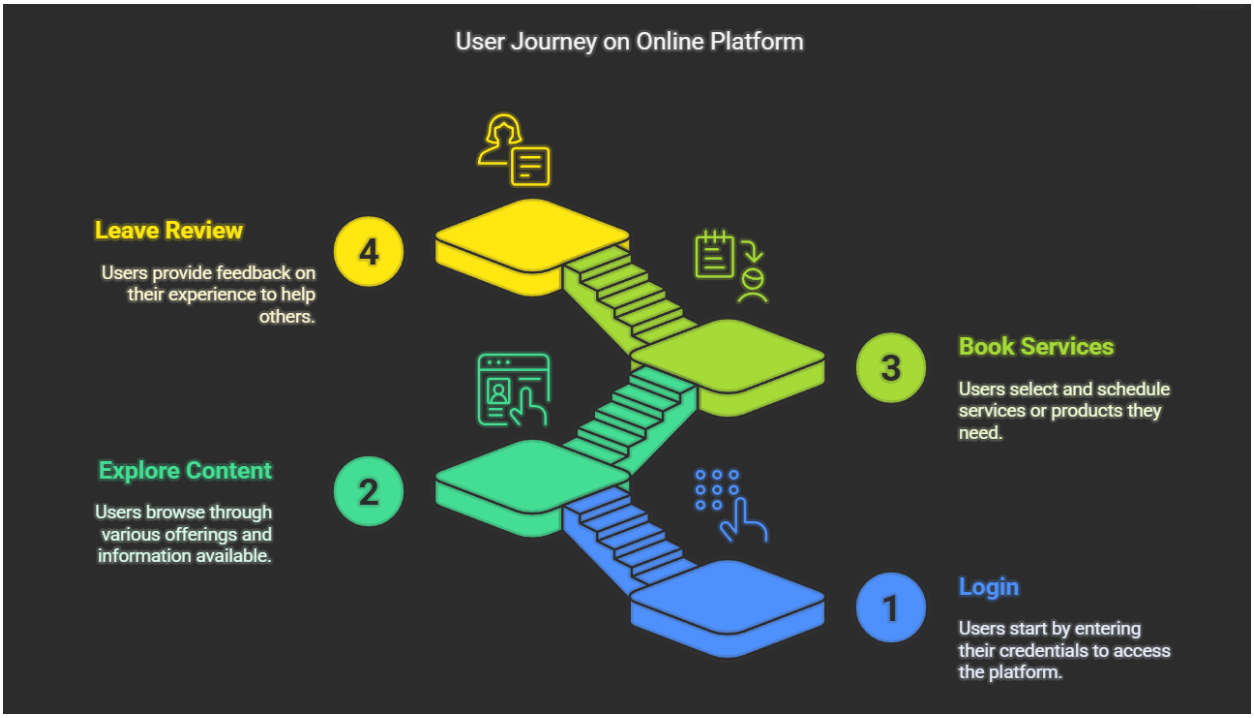
4. Analysis Models.

4.1 Data Flow Diagrams (DFD)

🔷 **User Journey on Online Platform:**

1. **Login**
   Users begin by logging into the platform using their credentials (username/email and password). This step ensures authentication and secure access to personalized features.
2. **Explore Content**
   Once logged in, users can browse different sections of the platform. They can explore tourist attractions, travel guides, suggested itineraries, available tour packages, and more.
3. **Book Services**
   After exploring, users can choose a service—such as booking a tour guide, reserving a tour package, or scheduling a visit to an attraction—and proceed with the booking.

4. **Leave Review**
   After using the services, users are encouraged to leave reviews or feedback about their experience. This helps future users make informed decisions and also improves platform credibility.



Github link:https://github.com/AnuragSinghParmar/Tourist-Guide-Platform

Video Presentation Link:https://www.instagram.com/reel/DIlto_ZCWOw/?utm_source=ig_web_copy_link&igsh=MzRlODBiNWFlZA==

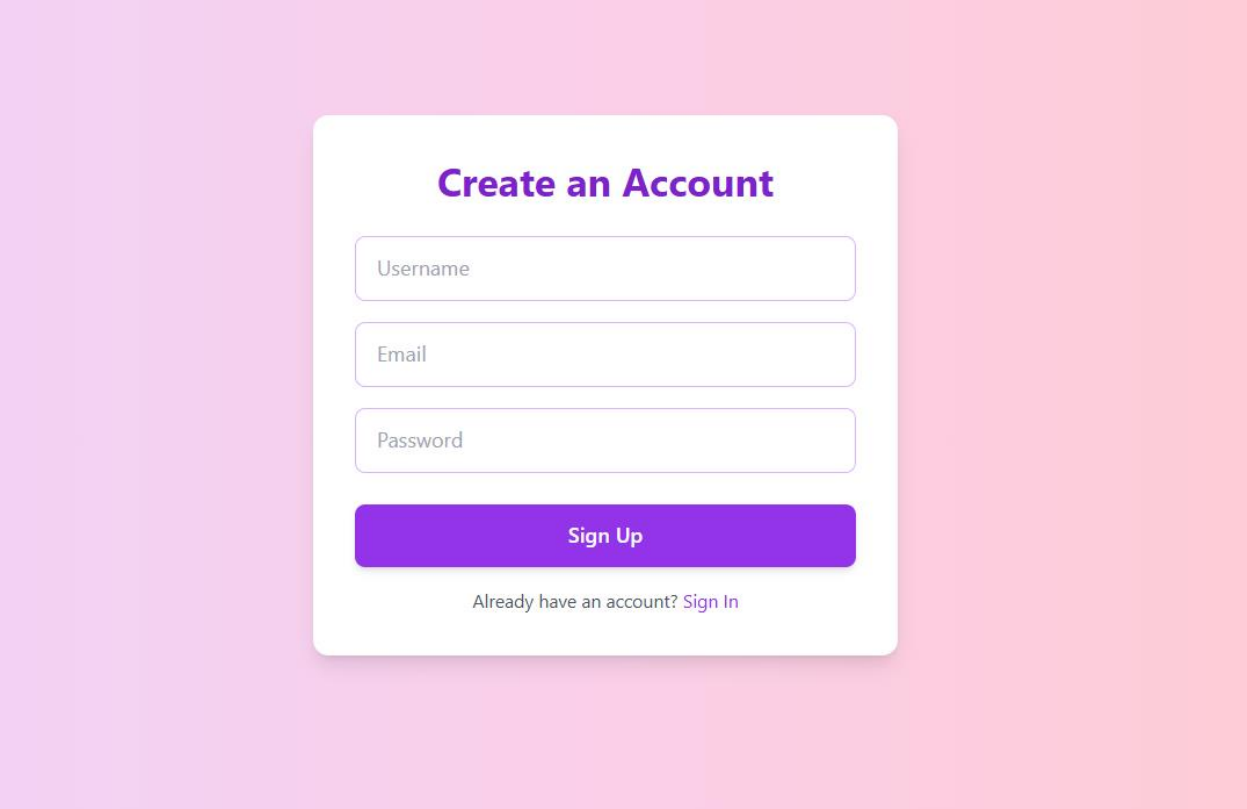
A. Appendices

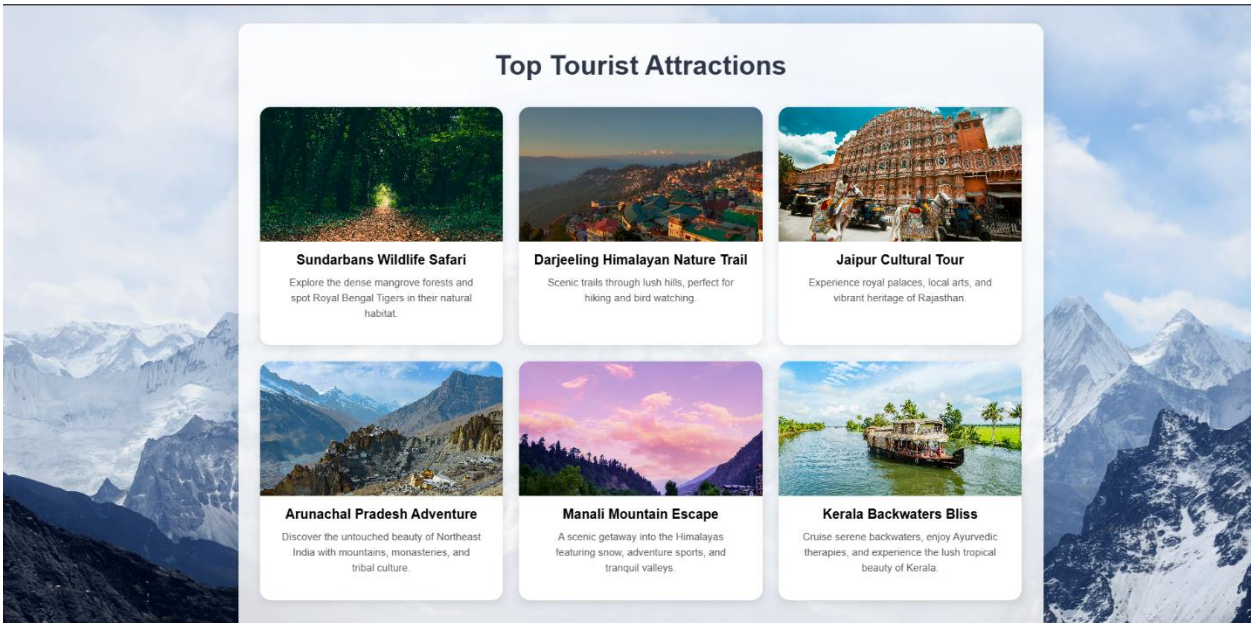
A.1 Appendix 1: Database Tables

- **User:** id, username, email address, password, created_at

- **Reviews:** id, name, comment, created_at
- **Itineraries:** id , user_name, itinerary_name , places, created_at, budget, start _date ,end_date
- **Bookings:** id, full_name, email, itinerary_id, guide_id, tour_name, tour_date, created_at

A.2 Appendix 2: Screenshots




Top Tourist Attractions
Sundarbans Wildlife Safari
Explore the dense mangrove forests and spot Royal Bengal Tigers in their natural habitat.
Darjeeling Himalayan Nature Trail
Scenic trails through lush hills, perfect for hiking and bird watching.
Jaipur Cultural Tour
Experience royal palaces, local arts, and vibrant heritage of Rajasthan.
Arunachal Pradesh Adventure
Discover the untouched beauty of Northeast India with mountains, monasteries, and tribal culture.
Manali Mountain Escape
A scenic getaway into the Himalayas featuring snow, adventure sports, and tranquil valleys.
Kerala Backwaters Bliss
Cruise serene backwaters, enjoy Ayurvedic therapies, and experience the lush tropical beauty of Kerala.