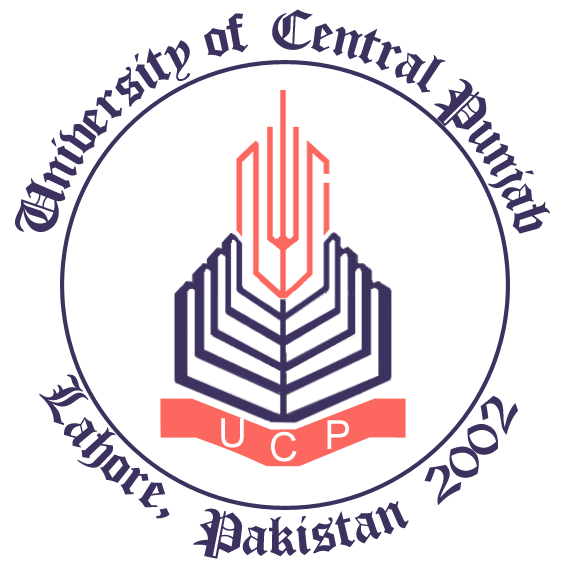
**ADP-CS FINAL PROJECT**

**Project-1**

**<Wander Wise Guide>**



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**Software Requirements Specification**

**<Wander Wise Guide>**

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# Introduction and Background

**Introduction:**

Welcome to Wander Wise Guide, your ultimate companion for exploring the breathtaking beauty and rich cultural heritage of Pakistan. We are your virtual tour and travel guide, dedicated to curating unforgettable experiences as you embark on your journey through this diverse land of wonders.

**Background:**

Wander Wise Guide was born from a love affair with Pakistan's mesmerizing landscapes and vibrant culture. Our team of seasoned travelers and local experts is dedicated to unlocking the hidden treasures of this breathtaking country. With a commitment to sustainable travel and authentic experiences, we're here to guide you on an unforgettable journey through Pakistan's most enchanting destinations. Join us and discover the essence of wanderlust with Wander Wise Guide.

**Significance of the Problem:**

The significance of this project lies in addressing the challenges faced by contemporary travelers. People now seek more than just static information about destinations; they crave dynamic, personalized experiences tailored to their interests, budget constraints, and Realtime considerations. The traditional process of relying on multiple sources for planning, reservations, and navigating new destinations is often cumbersome and time-consuming.

**Motivation:**

At Wander Wise Guide, our motivation stems from a deep-rooted belief in the transformative power of travel. We understand that exploring new places, immersing oneself in different cultures, and forging connections with people from diverse backgrounds enriches the human experience in profound ways. Our mission is to inspire wanderlust and facilitate meaningful journeys that not only provide unforgettable memories but also foster understanding, empathy, and appreciation for the world around us. Through Wander Wise Guide, we aim to ignite a passion for exploration and discovery, encouraging travelers to venture beyond their comfort zones and embrace the beauty and diversity of Pakistan's landscapes, heritage, and people.

## Problem-Solving Product:

Wander Wise Guide serves as a comprehensive solution to the challenges travelers encounter when planning their adventures in Pakistan. Here's how our project addresses these issues:

**Streamlined Planning Process:**

Travel planning can be overwhelming, especially in a diverse destination like Pakistan. Our project simplifies this process with comprehensive destination guides, personalized itinerary planning tools, and reliable information, allowing travelers to plan their trips efficiently and confidently.

**Booking Convenience:**

Booking accommodations, restaurants, and activities can be time-consuming and confusing. Wander Wise Guide offers seamless booking options for restaurants and hotels, directly through our platform, providing travelers with convenience and peace of mind.

**Access to Reliable Information:**

Accessing accurate and up-to-date information about destinations is crucial for travelers. Our project provides detailed and reliable information about various destinations in Pakistan, along with user-generated content like reviews and recommendations, helping travelers make informed decisions.

**Community Engagement:**

Traveling can be isolating without a sense of community. Wander Wise Guide fosters community engagement through user forums and social media integration, allowing travelers to connect with each other, share experiences, and gain valuable insights, enhancing their overall travel experience.

## Background

Wander Wise Guide was conceived from a deep-seated passion for exploration and a desire to showcase the unparalleled beauty and cultural richness of Pakistan to the world. Recognizing the need for a comprehensive and user-friendly travel guide tailored specifically to the unique landscapes and experiences Pakistan has to offer, our team embarked on a mission to create Wander Wise Guide.

Driven by a commitment to excellence and a dedication to serving the needs of travelers, our project aims to revolutionize the way people discover and experience Pakistan. Drawing upon a wealth of firsthand knowledge, local expertise, and a network of trusted partners, Wander Wise Guide is poised to become the go-to resource for anyone seeking to unlock the wonders of Pakistan's diverse destinations.

From the majestic peaks of the Himalayas to the serene shores of the Arabian Sea, Pakistan boasts a treasure trove of natural wonders, historical marvels, and cultural gems waiting to be explored. Wander Wise Guide is more than just a website; it's a gateway to immersive travel experiences, authentic encounters, and unforgettable adventures.

As we continue to evolve and grow, our commitment remains unwavering: to inspire, inform, and empower travelers to embark on transformative journeys that leave a lasting impact on their hearts and minds. Join us as we embark on this extraordinary adventure, one destination at a time, with Wander Wise Guide as your trusted companion.

## Scope

The scope of our tour and travel guide project encompasses comprehensive planning and definition to ensure it meets the needs of travelers while facilitating seamless bookings and exploration. It involves curating destinations, presenting information effectively through various media, and enabling user interaction for a personalized experience. Legal, budgetary, and feedback considerations are also vital for its success, ensuring continual adaptation to evolving traveler preferences.

**Key Features:**

**Comprehensive Destination Guides:**

* Detailed information on diverse destinations, featuring tourist spots, cultural attractions, historical sites, and hidden gems.
* User-generated content like reviews and recommendations to enrich destination guides.

**Personalized Itinerary Planning with Booking Integration:**

* User-friendly interface for creating and customizing travel with booking options for restaurants, hotels, and activities.
* Integration of intelligent algorithms to suggest optimized itineraries based on travel preferences and available bookings.

**Mobile Responsiveness for Booking on the Go:**

* Fully responsive design for easy booking and exploration across smartphones and tablets.

**Collaboration with Local Businesses for Exclusive Bookings:**

* Partnerships with local businesses offering exclusive deals, discounts, and promotions with direct booking options.
* Integration with booking platforms for accommodations, tours, and activities.

## Objective(s)/Aim(s)/Target(s)

1. Develop comprehensive tour packages for various destinations, catering to diverse interests and preferences.
2. Create engaging promotional materials, including brochures and online content, to attract a wide audience.
3. Establish partnerships with local businesses and service providers to enhance the overall travel experience for clients.
4. Conduct thorough market research to identify emerging travel trends and adjust offerings accordingly.
5. Achieve a targeted increase in customer satisfaction through feedback analysis and continuous improvement initiatives.
6. Enhance the online presence through effective use of social media, SEO, and other digital marketing strategies.
7. Ensure sustainable and responsible tourism practices are incorporated into tour operations.
8. Monitor and achieve financial goals, including revenue growth and cost management.
9. Expand the customer base by exploring new markets and demographics.
10. Foster a positive company culture that promotes teamwork, creativity, and commitment to excellence.
11. Establish the company as a trusted and reliable brand in the travel industry.
12. Implement efficient booking systems and customer support to ensure seamless transactions and positive client interactions.

## Completeness Criteria

1. **Tour Packages Developed:** All planned tour packages for various destinations are created and documented with detailed itineraries, pricing, and inclusions.
2. **Promotional Materials**: Engaging promotional materials, including brochures and online content, are designed and ready for distribution.
3. **Partnerships Established:** Partnerships with local businesses and service providers are solidified, ensuring a network for enhanced travel experiences.
4. **Market Research Conducted**: Thorough market research is conducted, identifying travel trends and allowing for adjustments in tour offerings.
5. **Customer Satisfaction Improvement:** Measures to increase customer satisfaction, based on feedback analysis and improvement initiatives, are successfully implemented.
6. **Digital Marketing Strategies Executed:** The online presence is enhanced through effective use of social media, SEO, and other digital marketing strategies.
7. **Sustainable Practices Incorporated:** Sustainable and responsible tourism practices are incorporated into the tour operations.
8. **Financial Goals Achieved:** Financial goals, including revenue growth and cost management, are monitored and successfully achieved.
9. **New Markets Explored:** The customer base is expanded by exploring new markets and demographics.
10. **Positive Company Culture:** A positive company culture is fostered, promoting teamwork, creativity, and commitment to excellence.
11. **Brand Establishment:** The company is established as a trusted and reliable brand in the travel industry.
12. **Booking Systems Implemented:** Efficient booking systems are successfully implemented, allowing for seamless transactions and client interactions.

## Business Goals

1. **Enhanced Customer Experience:** The software aims to streamline the booking process, ensuring a seamless and enjoyable experience for travelers.
2. **Revenue Growth:** Facilitate increased bookings and sales through effective tour package management and promotional strategies.
3. **Operational Efficiency:** Improve internal processes related to itinerary planning, booking, and customer support to enhance overall operational efficiency.
4. **Market Expansion:** Explore and tap into new markets by offering diverse and attractive tour packages to a wider audience.
5. **Brand Recognition:** Increase brand visibility through digital marketing strategies and positive customer interactions, establishing the business as a recognized name in the travel industry.
6. **Partnership Development:** Facilitate the establishment and management of partnerships with local businesses and service providers to enhance the range of services offered.
7. **Sustainability Integration:** Incorporate sustainable and responsible tourism practices to align with the growing demand for eco-friendly travel options.
8. **Adaptability to Trends:** Stay ahead of industry trends by conducting market research and adjusting tour offerings to meet evolving customer preferences.
9. **Financial Stability:** Monitor and manage financial aspects effectively, ensuring a stable and profitable operation.
10. **Employee Engagement:** Foster a positive work environment and employee engagement, contributing to increased productivity and customer satisfaction.
11. **Innovation:** Encourage and incorporate innovative features within the software to stand out in the competitive travel industry.
12. **Customer Loyalty:** Implement strategies to enhance customer loyalty through personalized services, exclusive offers, and excellent customer support.

# Functional Requirements

## Functions of system expressed as use cases

1. **Reserve place**:
   * To reserve place we have to click on **Book Now** that show in front of home page .After clicking on it we have to fill the form ,after completing form we can submit booking via Wats App and E-mail.
   * If we want to change place we can edit it from wattsapp or book again by sending mail.
2. **Verification and validation**:

* **Phone Number Validation:**
  + The phone number field must only accept numbers starting with "+92".
  + The phone number must be of valid length (e.g., 10 digits following "+92").
* **Email Validation:**
  + **The email field must contain the "@" symbol and follow standard email format (e.g.,** [user@example.com](mailto:user@example.com)**).**
* **Mandatory Fields:**
  + **All fields in the booking form must be filled out before submission is allowed.**
  + **Display an error message if any field is left empty.**
* **Form Submission:**
* **The form can only be submitted if all the above conditions are met.**
* **Display relevant error messages if any validation fails during form submission.**

1. **Navigation Bar**:
   * The navigation bar is fixed at the top and expands into a collapsible menu on smaller screens.
   * Each link in the navigation bar navigates to the corresponding section or page **(Home, Tour Hunter, Restotel, About Us, Contact Us, Book Now).**
2. **Banner Section**:
   * The banner section contains a prominent heading "Find your Next Tour!".
   * The search bar with a datalist provides suggestions for destinations (ISLAMABAD, SKARDU, SWAT, KASHMIR, CHITRAL, GILGIT).
   * The "Book Now" button redirects to the booking page.
3. **Featured Tours Section**:
   * Cards display images, titles, ratings, costs, and durations.
   * The "Explore More" buttons on the cards link to detailed tour pages.
4. **About Us Section**:
   * This section contains a description of the organization and an image.
   * The "Learn More" button links to a more detailed About Us page.
5. **Footer**:
   * The footer contains quick links to important pages (Home, About Us, Tour Hunter, Contact Us).
   * Social media links (Facebook, Instagram, TikTok) and contact information (phone numbers, email) are provided and clickable.

## Requirements Analysis and Modeling

**Use Case Diagram:**

A Use Case Diagram visually represents the interactions between user and use cases within a system. In the context of Wander Wise Guide project, actors represent entities interacting with the system, and use cases represent specific functionalities.

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**User Activities:**

1. **Start**: User initiates the interaction.
2. **Explore Tours**: User browses through the available tour packages.
3. **Book Tour**: User books a selected tour.
4. **View Booking Status**: User checks the status of their booking.
5. **End**: User concludes the interaction.

**Admin Activities:**

1. **Start**: Admin begins the interaction.
2. **Manage Tours**: Admin can add, update, or delete tour packages.
3. **Manage Users**: Admin manages user accounts, including adding or removing users.
4. **View Bookings**: Admin views all user bookings.
5. **End**: Admin ends the interaction

**Activity Diagram:**

An Activity Diagram illustrates the flow of activities within a system. It shows the sequence of actions or steps in a process.

## Usage Scenarios

**Typical Course of Action:**

|  |  |  |
| --- | --- | --- |
| **S#** | **Actor Action** | **System Response** |
| 1 | User selects “Book Now” on the homepage. | Tour booking form is displayed. |
| 2 | User enters data into the required fields and selects “Book Now” button. | Record added successfully, confirmation message displayed. System generates a booking confirmation number and displays it |

**Alternate Course of Action:**

|  |  |  |
| --- | --- | --- |
| **S#** | **Actor Action** | **System Response** |
| 1 | If required fields are left blank by the user. | Prompt user to enter all required fields. |
| 2 | If the "Book Tour" option is not visible on the homepage. | Reload the homepage or search for the option using the search bar. |

## Adopted Methodology

The Wander Wise Guide project will use the Agile methodology, emphasizing iterative development and continuous feedback. The project is divided into 2-4 week sprints, each delivering a shippable product increment. Agile's flexibility allows for regular adjustments based on stakeholder input and evolving requirements, ensuring a high-quality, user-friendly final product. This approach enhances stakeholder engagement, team collaboration, and adaptability to changing needs.

# Nonfunctional Requirements

## Performance Requirements

* **Response time**: The system will give responses within 1 second after checking the patient information and other information.
* **Capacity**: The system must support unlimited people at a time.
* **User interface**: User interface screen will response within 5 seconds.

## Safety Requirements

Wander Wise Guide ensures user safety by encrypting all personal and payment data using SSL/TLS and employing strong authentication, including multi-factor for admins. We comply with GDPR, control access to sensitive data, and perform regular security audits. Backups and a disaster recovery plan ensure quick data restoration. Secure payment processing follows PCI DSS standards, and content moderation prevents harmful content. Continuous monitoring and up-to-date software maintain system integrity, providing a secure and reliable environment.

## Additional Software Quality Attributes

The quality of Wander Wise Guide is maintained to ensure a user-friendly experience. The software quality attributes are as follows:

The website shall be accessible at all times to provide consistent service to users.

* **Correctness:** The website will be free of bugs and will accurately meet the needs and requirements of travelers and administrators.
* **Maintainability:** The system will be easy to maintain, allowing for modifications, information updates, and quick problem fixes.
* **Usability:** The website will be intuitive and easy to use repeatedly without any degradation in performance or experience.
* **Accessibility:** The system will be accessible to administrators and users with controlled access levels based on their roles and responsibilities.
* **Accuracy:** The information provided by the website will be reliable and users can depend on the accuracy of tour details and bookings.
* **Stability:** The website will provide consistent and reliable outputs, ensuring that the same input will always result in the same output.

## Other Requirements for Wander Wise Guide

Wander Wise Guide should support a degraded mode of operation where each module (e.g, booking, and user management) can function independently of central systems if needed. The software will include failure and error recognition codes to act as a safety net, preventing the system from executing any major catastrophic functions and ensuring a reliable and secure user experience even in the event of partial system failures.

# Revised Project Plan

| **Task Name** | **Duration** | **Start Date** | **End Date** | **Status** |
| --- | --- | --- | --- | --- |
| Idea | 5 days | 2024-03-01 | 2024-03-06 | Finished |
| Scope | 3 days | 2024-03-07 | 2024-03-09 | Finished |
| Functional Requirements | 4 days | 2024-04-10 | 2024-05-14 | Finished |
| Non-Functional Requirements | 3 days | 2024-04-14 | 2024-05-16 | Finished |
| Use Case/Activity Diagrams | 5 days | 2024-04-17 | 2024-04-21 | Finished |
| Usage Scenarios | 4 days | 2024-05-22 | 2024-06-25 | Finished |
| Work Plan | 3 days | 2024-05-26 | 2024-06-28 | Finished |
| Design Phase | 15 days | 2024-05-29 | 2024-06-13 | Finished |
| Detailed Design | 4 days | 2024-06-23 | 2024-06-26 | Finished |
| User Interface | 6 days | 2024-06-27 | 2024-0-01 | Finished |
| Testing | 10 days | 2024-07-02 | 2024-07-13 | Finished |
| Final Results | 2 days | 2024-07-14 | 2024-07-15 | Finished |

# References

* <https://www.pakistantours.pk/>
* <https://www.w3schools.com/>