**Software Requirement Specification (SRS) Template**

Title: Royal Brothers

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1. Introduction

* **Purpose**: The purpose of this document is to outline the requirements for the development of the Royal Brothers Bike Rental and Equipment Buying Site.
* **Scope**: The system will allow users to rent bikes and purchase equipment through an online platform. It will include user registration, bike and equipment listings, booking functionality, payment processing, and other relevant features.
* **Background**: The Royal Brothers Bike Rental and Equipment Buying Site is envisioned as a comprehensive online platform catering to the growing demand for convenient and efficient solutions in the bike rental and outdoor equipment market. With an increasing interest in sustainable and experiential travel, the platform aims to provide users with a seamless experience in renting bikes for travel and adventure while also offering the option to purchase associated equipment.

2. Functional Requirements

* **Requirement 1**: User Registration and Authentication
* Users should be able to create accounts, provide personal information, and log in securely.
* **Requirement 2**: Bike Rental Booking
* Users should be able to search for bikes based on location, check-in and check-out dates, and other criteria.
* The system should display detailed vehicle listings, including types, amenities, pricing, and availability.
* **Requirement 3**: Booking and Reservation
* Users should be able to select available vehicle, provide booking details, and make reservations, receiving confirmation and booking details.

* **Requirement 4**: Vehicle Equipment Buying
* After login user can search vehicle equipment and order the item .
* **Requirement 5**: Payment Processing.
* The system should support various payment methods, including credit/debit cards, digital wallets, and cash payments at the hotel.
* It should securely process payments and generate invoices or receipts.
* **Requirement 6:** Update User Profile
* Users should be able to update their profile based own their login criteria.
* **Requirement 7:** Review and Rating.
* Users should be able to leave reviews and ratings for hotels, helping other users make informed decisions.
* **Requirement 8:** Notification
* The system should send notifications to users regarding booking confirmations, reminders, and updates via email, SMS, or push notifications.
* **Requirement 9:** Search filters and Sorting.
* Users should be able to filter and sort search results based on criteria such as price, rating, proximity, and amenities.
* **Requirement 10:** Customer support and Help Centre
* Provide a support system for users to contact customer service for inquiries, problem resolution, and assistance.
* Maintain a help centre with FAQs, guides, and contact information.

4. Non-Functional Requirements

* **Requirement 1:** Security
* Specify authentication and authorization requirements for users and staff.
* Define encryption standards for sensitive data, such as payment information.
* **Requirement 2**: Performance.
* Response Time: Specify the maximum acceptable response time for various operations (e.g., search, booking, cancellation).

4. Use Cases

* **Use Case 1**: User Registration.
* A new user can create an account by providing personal information, such as name, email, and password. The system stores this information for future authentication and personalization.
* **Use Case 2**: Search and Book.
* Users can search for hotels by entering criteria like location, check-in and check-out dates, and the number of guests. The system returns a list of available hotels meeting the search criteria.
* **Use Case 3**: Update User Profile.
* Registered users can update their profile information, including contact details, profile picture, and payment methods.
* **Use Case 4**: Make a Payment.
* The system interacts with payment gateways to process transactions securely, ensuring payment is made and confirmed.
* **Use Case 5**: Modify and Cancel Booking.
* Users can cancel a previously made reservation. The system should handle refunds if applicable.
* **Use Case 6**: Contact Customer Support.
* Users can contact customer support for assistance with bookings, account issues, or other inquiries.

5. System Architecture

* **Architecture Overview**: 3 tier architecture. UI, API to request.
* **Data Model**: Collection of indexed data.

6. Constraints

* **Constraint 1**: Geographical Constraint.
* Regional variations in user preferences, regulations, and market conditions, which may affect the system's adaptation in different areas.
* **Constraint 2**: Regulatory Constraint.
* Compliance with local and international laws and regulations related to data privacy, consumer protection, and payment processing.
* **Constrain 3:** Content and Data Licensing.
* Constraints related to content and data licensing agreements for hotel listings, images, and other information.

7. Assumptions and Dependencies

* **Dependency 1**: Payment Gateway
* The system relies on third-party payment gateways for processing customer payments securely. Dependencies on the availability and functionality of these gateways are critical.
* **Assumption 1**: User Authentication
* Users are assumed to have valid email addresses or mobile phone numbers that can be used for registration and authentication. Users are also assumed to provide accurate information during registration.