**System Requirement Specification (SRS)**

Title: MakeMyTrip Website

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1. Introduction

* **Purpose**: Make my Trip is a well-known travel booking platform. It allows customers to compare prices, check availability, and make secure online bookings for various travel services.
* **Scope**: This project provides variety of travel related services including flight booking, bus booking, car rental, train booking, hotel reservation, searching holiday packages, etc.
* **Background**: Make my trip aims to provide users with a seamless and convenient online experience for planning and booking their travels. The website will serve as the primary interface for users to search, book, and manage their travel arrangements.

2. Functional Requirements

* **Requirement 1:** **User Login**
* Users should be able to create accounts with valid email address or mobile number.
* Users should be able to login with the registered email address or mobile number.
* **Requirement 2:** **Search flights**
* Users should be able to search flights based on source, destination, date, travellers, and class.
* **Requirement 3**: **Display flights availability**
* Users should be able to find flights and filter based on Trip type like one-way, round trip and multi-city.
* Users should be able to find flights and filter based on Fare type like regular, armed forces, student, senior citizens, double seats, doctors, and nurses.
* Users should be able to find flights and filter based on Airlines like Air India, Indigo, Alliance Air, Akasa Air, and other airlines.
* Users should be able to find flights and filter based on Number of stops like Non-stop and One stop.
* **Requirement 4**: **Book flights**
* Users should be able to book flights by giving travellers details such as name, email address, mobile number etc.
* Users should be able to do payments via credit/debit cards or digital wallets and generate invoice.
* Users should be able to receive booking confirmations and updates via email and SMS.
* **Requirement 5**: **Offers for flights**
* Users should be able to find offers available for flights based on cards, super-saver offer etc.
* **Requirement 6**: **Top flight destinations**
* Users should be able to find top flight destinations.
* **Requirement 7**: **Cancel flights**
* Users should be able to cancel booked flights tickets in accordance with the cancellation policy.
* **Requirement 8**: **View confirmation tickets**
* Users should be able to view detailed flight booking confirmation such flight name, date, time etc...
* **Requirement 9**: **Check ticket status**
* Users should be able to check the status of the booked flight tickets.
* **Requirement 10**: **Refund**
* Users should be able to get refund after cancelling flight tickets to their respective accounts.

3. Non-Functional Requirements

* **Requirement 1**: **Security**
* Authentication: - Users should be securely authenticated and authorized to access their respective functionalities.
* Data Encryption: Sensitive information, such as payment details and personal data, should be encrypted during transmission and storage.
* **Requirement 2**: **Performance**
* Response Time: The system should respond to user requests within a specified timeframe, such as under 2 seconds for most operations.
* Scalability: The system should handle many concurrent users and bookings without a significant drop in performance.
* Availability: The system should be available 24/7 with minimal downtime, aiming for 99.9% uptime.

4. Use Cases

* **Use Case 1:** Users should be able to register and login, and book flight tickets.
* Users can create an account by providing valid email or mobile number.
* Users should be allowed to login into the system with the registered credentials.
* Users should be able to search flights, book flights, view offers, cancel flights after successful login.

5. Assumptions and Dependencies

* **Dependency 1**: **Payment Gateway**
* Users should be able to do payments via Net banking, credit/debit cards, UPI, gift cards and wallets etc.