**1. PROJECT NAME:**

**TravelWithMe Online Travel Reservation System (TRS)**

**2. PROJECT IDEA:**

A comprehensive web-based travel reservation system that provides competitive pricing for flights, hotels, and car rentals while managing user profiles and offering personalized travel packages.

**3. PROJECT DRIVERS:**

**a. The goal of the project:**

To create a seamless and competitive travel reservation platform that integrates flights, hotels, car rentals, and user profile management, while enhancing user experience through personalization and flexible booking options.

**b. Client, Customer, Stakeholders:**

* **Client**: TravelWithMe organization.
* **Customer**: End-users looking to book flights, hotels, or car rentals.
* **Stakeholders**:
  + Sales Department.
  + Travel service providers (airlines, hotel chains, car rental companies).
  + Credit Bureau (for creditworthiness checks).

**c. Users of the project:**

* Individuals planning trips for personal or professional purposes.
* Frequent travelers who benefit from loyalty discounts.
* Administrative users within TravelWithMe (e.g., Sales Department).

**4. PROJECT CONSTRAINTS:**

**a. Mandated Constraints:**

* **Technology**:
  + **Database**: Use of relational databases to store user profiles, transaction history, and booking data.
  + **Payment Gateway**: Integration with secure payment systems for handling credit card transactions.
  + **Web Technologies**: The system must be web-based to allow for accessibility.

**b. Naming Conventions and Definitions:**

* **Flights Module**: Handles flight price quotes, reservations, and preference selection.
* **Hotels Module**: Manages hotel bookings, cancellation policies, and refunds.
* **Car Rentals Module**: Supports vehicle reservations and policy adherence.
* **Travel Packages**: Bundled offers for flights, hotels, and car rentals based on user profiles and destinations.

**c. Relevant Facts and Assumptions:**

* **Relevant Facts**:
  + Users prefer competitive prices and flexible policies.
  + Travel service providers frequently update availability and pricing.
* **Business Rules**:
  + Flight reservations can be held for two days without payment.
  + Hotel and car rental bookings may offer refunds or enforce stricter policies for non-refundable options.
* **Assumptions**:
  + Users have internet access to interact with the system.
  + Credit Bureau verification ensures user financial credibility.

**5. FUNCTIONAL REQUIREMENTS:**

**a. The Scope of the Work:**

* **Current Situation**:  
  TravelWithMe is transitioning from a classic tour operator website to a modern, fully integrated travel reservation system.
* **The Context of the Work**:  
  To support users in searching for competitive prices and managing reservations efficiently.
* **Work Partitioning**:
  1. Price quoting and filtering for flights, hotels, and car rentals.
  2. User preference selection and interaction for customization.
  3. Order validation and secure payment processing.
  4. Profile management for discounts and loyalty benefits.

**b. The Scope of the Product:**

* **Use Case Diagram**:  
  The system boundary includes automated functionalities like price quoting, booking management, user profile updates, and creditworthiness checks.  
  **Actors**:
  + Customers (users making reservations).
  + Travel service providers (providing price quotes and availability).
  + Sales Department (validating and processing orders).

The automation includes:

* Handling dynamic price quotes and availability checks.
* Integrating user preferences into booking workflows.
* Managing secure payment and refund policies.