Oskar Wolf

Project: Build Data Mart in SQL

Requirements Specification

Introduction:

This document aims to define the essential requirements for the development of the Airbnb project. It entails a comprehensive analysis of the system's roles, actions, and necessary data and functions.

Roles:

The system involves two primary roles: **Hosts and Guests**.
- **Hosts:**
a) Providing accommodations for rent.
b) Creating and managing property listings.
c) Modifying availability, pricing, and property information.
d) Communicating with guests and managing bookings.

- **Guests:**
a) Searching and booking suitable accommodations.
b) Refining search based on location, dates, and preferences.
c) Accessing comprehensive property details.
d) Making bookings and secure payments.
e) Providing feedback through reviews and communicating with hosts.

Actions:
- **Hosts:**
a) Creating and managing property listings to showcase their accommodations.
b) Updating availability, pricing, and property details regularly to provide accurate information.
c) Communicating efficiently with guests, addressing inquiries, and sharing essential information.
d) Managing bookings, including confirming reservations and coordinating check-ins and check-outs.
e) Handling financial transactions by receiving payments for bookings through secure payment methods.

- **Guests:**
a) Conducting targeted searches for accommodations based on location, dates, and personal preferences.
b) Accessing detailed information about properties, including amenities and rules, to make informed decisions.
c) Making secure bookings and payments for their chosen accommodations.
d) Communicating effectively with hosts to ask questions, make special requests, and gather additional information.
e) Sharing their experiences through reviews and ratings, contributing valuable feedback for future guests and hosts.

<u>Required Data and Functions:</u>

- **User Management:**

a) Registration and login features for both hosts and guests.
b) Comprehensive user profile management, allowing users to update personal information, contact details, and profile pictures.

- **Accommodation Management:**

a) User-friendly tools for hosts to create and manage property listings, simplifying the process of showcasing and handling accommodations.
b) Convenient features for hosts to easily manage availability dates and pricing, enabling them to effortlessly update and customize availability and pricing information.
c) Flexible options for hosts to specify amenities and rules for accommodations, ensuring effective communication of unique features and guidelines.

- **Booking and Payment Management:**

a) User-friendly search and booking features for guests, simplifying the process of finding and reserving accommodations effortlessly.
b) Secure credit card payment processing, guaranteeing the safety and trustworthiness of financial transactions.
c) Instant confirmation notifications for successful bookings, offering guests peace of mind and crucial booking information.
d) Transparent cancellation and refund policies, ensuring guests are well-informed about the procedures and conditions for modifying or canceling their bookings.

- **Communication:**

a) Enabling easy communication between hosts and guests, the platform provides messaging features for discussing bookings, inquiries, and special requests.
b) A reliable notification system ensures timely updates and important messages, promoting effective and prompt communication.

- **Review and Rating System:**

a) Guests can share their feedback and ratings for accommodations, contributing to the review system.
b) The platform displays average ratings and reviews for each property and host, helping guests make informed decisions.