**Experiment 1**

**Prepare an SRS document in line with the IEEE recommended standards for the specified Case Study. (Functional Requirements) Functional Requirement**

**Functional Requirements**

Functional requirements for a hotel booking application outline the specific features and capabilities that the application must have in order to meet the needs of its users.

Here are some typical functional requirements for a hotel booking application:

1. **User Registration and Authentication:**

* Users should be able to create accounts and log in securely.
* User profiles should include personal information, contact details, and preferences.

1. **Hotel Search and Listings:**

* Users can search for hotels based on location, date, price, and other filters.
* Detailed hotel listings with information about room types, prices, amenities, and photos.

1. **Room Reservation:**

* Users can select rooms and make reservations for specific dates and durations.
* The system should confirm room availability and pricing

1. **User Support and Contact:**

* Provide customer support through chat, email, or phone.
* Offer a "Contact Us" feature for inquiries and assistance.

1. **User Reviews and Ratings**:

* Allow users to leave reviews and ratings for hotels and their experiences.
* Display average ratings and sort hotels based on user reviews.

1. **Scalability:**

* The system should be able to handle a large number of concurrent users and hotel listings.