

**ICT Project**

**Task 3**

**Submitted by**

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### Hotel Booking Website Functionality and Features:

#### 1.Search and Booking:

* Hotel search based on location, dates, and preferences.
* Detailed hotel listings with information on amenities, pricing, and reviews.
* Real-time availability and pricing updates.
* Booking confirmation and reservation management.

**2. Reservation Management:**

* View, modify, and cancel reservations.
* Email notifications for booking confirmations and reminders.

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#### 3. User Reviews and Ratings:

* Allow users to leave reviews and ratings for hotels.
* Display reviews to help users make informed decisions.

**4. Payment Integration:**

* Secure payment gateways for online transactions.
* Support for multiple payment methods (credit cards, online wallets, etc.).
* Handling of refunds and cancellations.

**5. Responsive Design:**

* Mobile-friendly interface for users on different devices.
* Seamless user experience across desktop and mobile platforms.

### Technical Constraints:

#### 1. Security:

* Implementation of secure authentication and data encryption.
* Compliance with data protection regulations.
* Regular security audits and updates.

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#### 2. Scalability:

* Design architecture that can handle a large number of concurrent users.
* Scalable database management to accommodate growing data.

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#### 3. Performance Optimization:

* Efficient code and database queries for quick response times.
* Image optimization for faster loading of hotel images.

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#### 4. Payment Compliance:

* Adherence to Payment Card Industry Data Security Standard (PCI DSS) for handling payment information securely.