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## IEEE standard SRS document

### I. Hotel Management System

#### 1. Introduction:

##### a. Purpose:

It specifies the requirements of Hotel Management system. It is intended to be used by the software development team, quality assurance team and the hotel management.

##### b. Document Convention:

Bold text are used for section titles, important terms or commands. Bulleted list are used for unordered lists or steps with requirement.

##### c. Intended Audience & Reading Suggestion:

→ Project managers - to understand project scope, deliverables and timelines.

→ Software developers - to use as a reference for system architecture, implementation and integration.

→ All readers should begin with Introduction to understand the context, scope and terminology.

→ Developers should focus on overall description, specific requirements.

##### d. Project scope:

→ It supports room booking and reservation management.



It supports guest check-in and check out. Also supports Billing and payment processing.

e. References:

IEEE Std 830-1998 for software requirement specifications. MySQL Documentation.

2. Overall description:

a. Product perspective:

It is a standalone system with optional integrations for payment gateways and email system. It follows a client-server model.

b. Product Functions:

It provides room management, online and offline booking management, real-time room availability, daily and monthly reporting.

c. User classes & Characteristics:

- Admin - full system access to manage operations
- Receptionist - limited access to booking, payment.
- Guest - limited access to booking, payment.

d. Operation Environment:

- web-based application.
- Runs on modern browsers.



Also

Databases: MySQL

e. Design and Implementation Constraints:

The system must comply with PCI for payment security. The system shall use HTTPS for all transactions.

f. User Documentation:

- Online Help.
- Admin manual
- Guest user guide.

g. Assumption & Dependencies:

- Internet connection is required for online operation.
- Third party services (payment gateway) must be available.

3. Specific Requirements:

a. Functional Requirements:

- \* User Authentication - The system shall allow users to register using valid email and password.
- \* Room Management - The system shall allow admins to add, edit or remove room types.
- \* Check-in / Check-out - The system shall allow receptionists to check in a guest based on valid reservation.



b. Non-Functional Requirements:

- \* Performance requirement - The system shall respond to user actions within 2 sec under normal load.
- \* Security requirement - Passwords shall be stored using SHA-256.
- \* Usability requirement - The UI shall be responsive and accessible on mobile and desktop.

c. External Interface Requirements:

- \* User Interface - Clean, intuitive interface for booking and account management.
- \* Hardware Interface - Barcode scanner for check-in ID verification.

d. Appendices:

- ⇒ Guest - A customer booking or staying at hotel.
- ⇒ Invoice - A bill generated for guest stay & expenses.
- ⇒ Check-in - The process of registering a guest upon arrival.

Neelima  
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