

Hotel Management System (HMS)

① Problem Statement :- Manual Hotel operations lead to inefficiency and errors. HMS automates tasks for better accuracy & service.

② Introduction :-

Purpose :- Defines requirements for HMS to guide development and ensure stakeholder alignment.

Scope Overview :- A web based system to manage bookings, billing, staff, check-in/out, and reporting.

Overview :- Covers system features, interfaces, performance constraints, & a high-level budget & timeline.

③ General Description :- Modular system with booking, billing, housekeeping, and reporting. Designed for admins, staff, and customers.

④ Functional Requirements :-

Users can register, book/cancel rooms, check in/out, view bills and generate reports.

⑤ Interface Requirements :-

Performance
System supports 500+ users with <3s response time and 99.5% uptime.

Daily backups complete within 15 minute and are stored securely.

⑥ Interface Requirements:-

WEB UI is responsive and user-friendly, optimized for desktop and mobile.

Use REST APIs, MySQL/PostgreSQL, and support HTTPS for secure communication.

⑦ Design Constraints:-

Developed using LAMP or MERN stack. Compliant with GDPR and PCI-DSS. Supports multilingual UI and must work on all major browsers.

⑧ Non-functional Attributes:-

Secure, reliable, and available 24/7.

Encrypted login and role based access.

⑨ Schedule and budget:-

3 months total: 3 weeks design, 8 weeks development, 4 weeks testing & deployment.

Estimated budget ~ ~~20~~ 25 Lakhs, covering dev, QA, hosting & support.

10/19/25