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| HOTEL MANAGEMENT SYSTEM  SOFTWARE DESIGN AND ARCHITECTURE | | **Group Members**  Ahmed Rehman 70127058  Fatima Ghaffar 70127016  Malaika Riaz 70129115  Mehrunisa Kashif 7012457 | |
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| **STATEMENT**  The hotel management system is a web-based application designed to streamline various operations within a hotel, including reservation management, guest services, staff scheduling, inventory management, and billing. The system aims to improve efficiency, enhance guest satisfaction, and optimize resource utilization for hotel management. | | | |

**SCOPE**

The scope of the project includes developing a user-friendly web interface accessible to both hotel staff and guests. Key features will include:

* Reservation management: Allow guests to book rooms online and manage reservations.
* Guest services: Provide information about hotel amenities, local attractions, and facilitate requests such as room service and housekeeping.
* Staff scheduling: Enable hotel staff to view and manage their schedules, including shifts and tasks.
* Inventory management: Track and manage inventory levels of hotel supplies and amenities.
* Billing: Generate invoices, process payments, and maintain billing records.
* Reporting: Generate reports on various aspects of hotel operations for management analysis.

**DESCRIPTION**

The hotel management system will be developed using web technologies such as HTML, CSS, JavaScript, and backend programming languages like Python or Node.js. The system will be designed with a responsive layout to ensure compatibility with different devices, including desktops, tablets, and smartphones.

**Minimum Viable Product (MVP)**

The MVP of the hotel management system will include essential features such as:

* User authentication: Allow users to create accounts and log in securely.
* Room reservation: Enable guests to search for available rooms based on their preferences and book them.
* Staff management: Allow hotel staff to log in, view their schedules, and update their availability.
* Basic reporting: Provide basic reports on reservation statistics, occupancy rates, and revenue.
* Admin dashboard: Allow administrators to manage user accounts, view analytics, and perform CRUD operations on hotel resources.