

***Govt. Graduate College for Women,
Satellite Town, Gujranwala***

GUJRANWALA

Stay Hub

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1.0 Introduction:

We propose the development of a comprehensive Hotel Management App that will revolutionize the hospitality industry by providing a seamless and efficient experience for both guests and hotel staff. This app will encompass a range of features to enhance the booking, stay, and overall satisfaction of the guests. This initiative aligns with the growing trend of digitization in the hospitality industry, providing a modern and efficient solution for managing hotel operations and improving guest satisfaction.

1.1 Project Overview Statement:

Project Title: Stay Hub			
Group Leader: Zuhra Iqbal			
Project Members: 3			
Name	Registration #	Email Address	Signature
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Project Goal: Develop a comprehensive hotel management application to streamline operations, enhance guest experience, and optimize staff efficiency.			
Objectives:			
Sr.#	Objectives		
1	Admins can create and manage, guest and staff accounts.		
2	Admin can manage all room reservations.		
3	Admins can manage staff activities, ensuring efficient hotel operations.		
4	Provide a user-friendly map guide to assist guests in navigating the hotel premises.		
5	Admin integrate an event management system to inform guests about hotel activities.		
6	Guests can create accounts and manage their profiles.		
7	Guests can search for room availability, make reservations.		
8	Easily request in-room services through the app.		
9	Guests can inquire about and book hotel events.		
10	Allow bookings for additional hotel services such as gym and spa.		
Project Success criteria: The success of the hotel management app will be determined by high user adoption, increased online bookings, positive guest satisfaction ratings, and streamlined operational processes.			
Organization Address (if any): Govt. Graduate College (Women) Satellite town, Gujranwala.			

Type of project:	<input type="checkbox"/> Research	<input checked="" type="checkbox"/> Development
Target End users: Admin, Customer, Visitors		
Development Technology:	<input checked="" type="checkbox"/> Object Oriented	<input type="checkbox"/> Structured
Platform:	<input type="checkbox"/> Web based	<input type="checkbox"/> Distributed
	<input type="checkbox"/> Desktop based	<input checked="" type="checkbox"/> Mobile
<input checked="" type="checkbox"/> Other _____		

1.2 Assumptions, Risks & Obstacles:

1.2.1 Risks & Obstacles

- System might be crash due to technical reasons.
- People may be non-cooperative or rude
- Project may require more time to complete.
- Technology may be changed.
- The project may require more budget to complete.
- Complicated or lengthy booking processes that may discourage users.

1.2.2 Assumptions

- Users have access to a reliable internet connection.
- All objectives should be achieved.
- Requirements of user will be the same
- Users have devices that are compatible with the app.
- End users will easily understand the system.

1.3 High-level system components:

- User Management System
- Inventory Management System
- Hotel Rooms Management System
- Events Management System
- Booking Management System

1.4 List of Optional Functional Units:

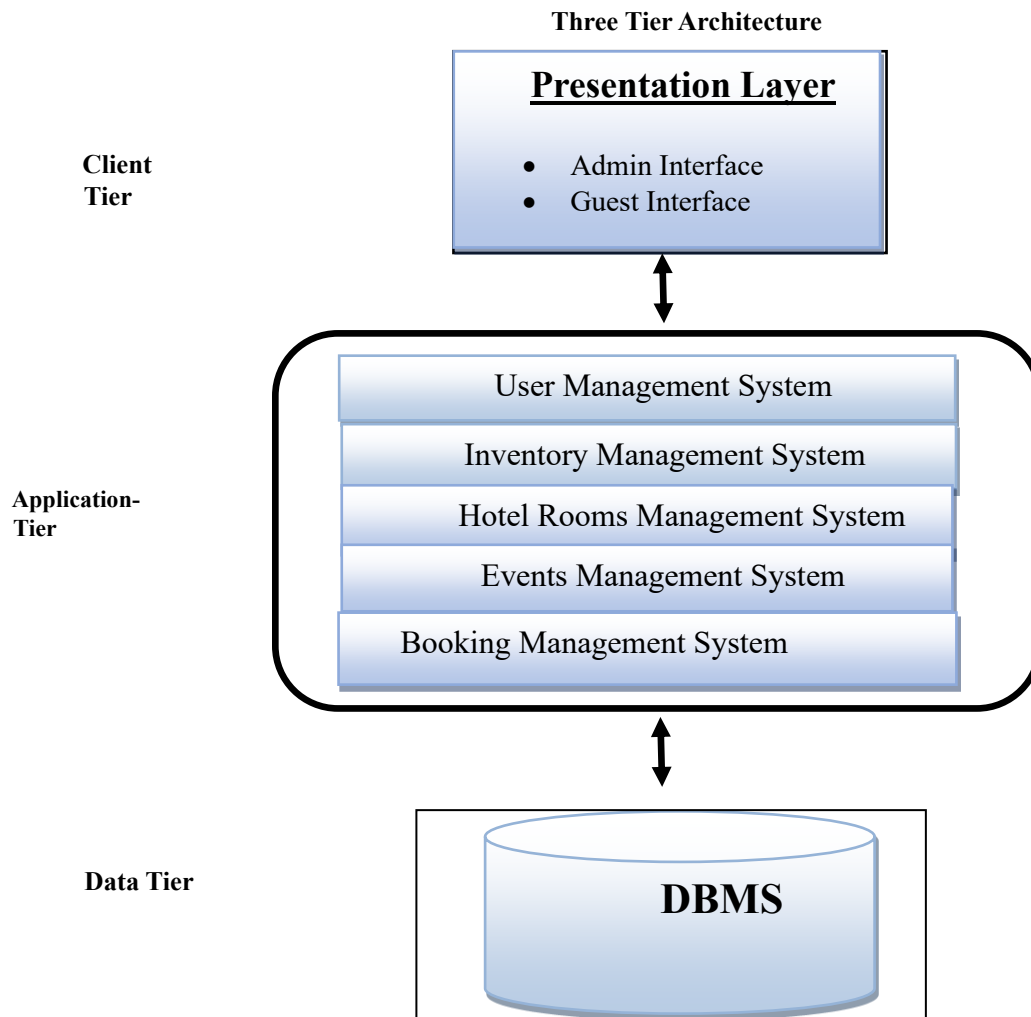
- Developed in website
- Enable the system to handle transactions in multiple currencies
- Integrate a live chat support system for real-time assistance and resolving customer queries.

1.5 Exclusions:

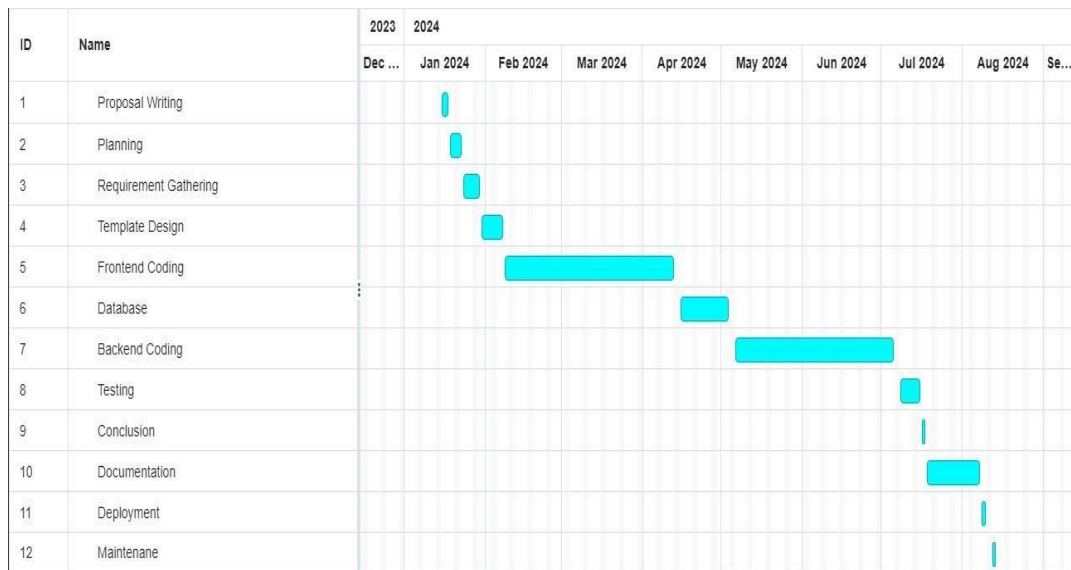
- The app will not facilitate comprehensive travel packages beyond hotel accommodations.
- Guests cannot request personalized modifications to products or hotel rooms.

- Integration of geo-location services for guests to find nearby attractions, restaurants, or services related to their bookings.
- Allow guests to share their bookings or purchases on social media platforms for enhanced visibility and marketing.

1.6 Application Architecture:



1.7 Gantt Chart:



1.8 Hardware and Software Specification:

For this system to work **efficiently and effectively** the server will need a **Android Mobile Device** or **Computer Device**.

1.8.1 Minimum Hardware Specification

1.8.1.1 Server Side

- Processor – i5
- Hard Disk: 64 GB or above
- Memory – 2GB+RAM
- Android/IOS device
- Internet connection of 8 Mbps

1.8.1.2 Client Side

- Android/IOS Phone
- RAM 4 GB
- Hard drive 64 GB or above
- Internet connection of 4 Mbps
- Processor 1.8 GHz or above

1.8.2 Minimum Software Specification

1.8.2.1 Server Side

- Node JS
- SQL
- .NET

1.8.2.2 Client Side

- Client will need to be using the Android/IOS mobile or laptop active internet connection on device.

1.9 Tools and technologies used with reasoning:

1.9.1 Development Tools

1.9.2 CASE Tools

- Microsoft Word
- MS Visio
- MS Project

1.9.2.1 Microsoft Word

MS Word is a popular **word**-processing program **used** primarily for creating documents such as letters, brochures, learning activities, tests, quizzes and students' homework assignments. There are many simple but useful features available in **Microsoft Word** to make it easier for study and work. We use Microsoft Word for the documentation of our project

1.9.2.2 Microsoft Project

Microsoft Project is a Project Management Software Product, developed and sold by Microsoft. It is designed to assist a project manager in developing a plan, assigning resources to tasks, tracking progress, managing the budget, and analyzing workloads.

1.9.2.3 Microsoft Visio

Microsoft Visio is a diagramming and vector graphics application and is part of the Microsoft Office family. It is used to create flowcharts, network diagrams, org charts, floor plans, engineering design and more using modern shapes and templates. For any type of diagramming need, Visio can help you to get started quickly.

1.9.3. Languages

1.9.3.1 React Native

React Native is a popular open-source framework for building mobile applications using JavaScript and React. Developed by Facebook, React Native allows developers to build cross-platform mobile apps that can run on both iOS and Android devices with a single codebase. Here are some key aspects of React Native as a development tool and reasons to use it compared to other alternatives.

Key Features of React Native

- Cross-Platform Development
- Reusable Components
- Hot Reloading
- JavaScript and React Knowledge

Reasons to Choose React Native Over Other Frameworks

- Code Reusability
- Rapid Development