

**Project Name: Hotel Booking Management**

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[**Index**](#_heading=h.gjdgxs)

**1.** [**Scope of Work**](#_heading=h.3dy6vkm)

**2**[**. Project Overview**](#_heading=h.30j0zll)

**3**[**. Software Functionalities**](#_heading=h.1fob9te)

**4**[**. Technology**](#_heading=h.3znysh7)

**4**[**.1. Architecture Diagram**](#_heading=h.2et92p0)

**4**[**.2 Tech stack**](#_heading=h.tyjcwt)

**5**[**. Assumptions**](#_heading=h.4d34og8)

**6**[**. Risks**](#_heading=h.2s8eyo1)

**7**[**. Project Timelines**](#_heading=h.17dp8vu)

## **Scope of Work**

* The scope of work for this project involves developing a comprehensive Hotel Billing Management System (HBMS) designed to manage various hotel operations, including billing, customer management, bookings, income, and expense tracking.
* The system will include various user-friendly components, and provide an efficient way to manage bookings, staff, sections, and expenses, along with graphical reporting tools for tracking hotel performance.
* User-friendly navigation, security measures, data backup, and recovery features will ensure seamless and safe operation. Finally, the system will be scalable, supporting future functionality enhancements and multi-location management for hotels with multiple branches.

# **2. Project Overview**

* It will create an efficient and scalable system.
* It will provide functionalities to manage **billing, bookings, customer profiles, income, expenses**, and **enquiries**.
* Core components include:
* Login functionality.
* Dashboard.
* Customer profiles.
* Booking management.
* Income and expense tracking.
* Enquiry handling.
* **Graphical reports** will be generated to give hotel administrators insights into **bookings, revenue, and room demand**.
* Focus on a **user-friendly interface** to ensure easy adoption by hotel staff.
* The HBMS will offer **real-time data access** and help the hotel management make informed decisions.
* The system will also include **staff management tools** to oversee employee roles, responsibilities, and system access.

# **3. Software Functionalities**

|  |  |
| --- | --- |
| **Sr No** | **Functionalities ProjectTimeLine (Hrs)** |
| 1 | User authentication  1.1 Login   * Username * Password |
| 2 | HomePage |
|  | 2.1 Navigation Bar   1. Profile 2. Logout 3. reset password |
|  | 2.2 SideBar   1. Dashboard   1.1 Today’s Income  1.2 Total Income  1.3 Today’s Expenses  1.4 Total Expenses.  1.5 Search button  1.6 Date Filter (From-To)  1.7 Graphs  1.7.1 Monthly, Weekly, Quarterly Booking Graph    1.7..2 Mostly used Room Type (Deluxe, Semi-Deluxe, AC, Non-AC)    1.7..3 Highly demanded Food/Items   1. Sections   2.1 Add Sections  2.2 List Sections     1. Content   3.1 Add New Content  - select section   * content title * content charges/Price/Cost * content sequence * content description * Date * Location * Add Link * Image * Submit   3.2. List of Contents  - Content Id  - Section Id  - Section Name  - Content Title  - Action (View,Edit, Add photos, add videos, delete)   1. Customers   1. Add New Customer   * Role (Customer,Staff) * Full Name * Mobile Number/Username * Email * Building/flat Number * Locality * City * Pincode * Photo * Submit * Submit and clear   2. View Customer (fullname, mobile, email, action: view and delete)    2.1 View Customer Profile   * (Profile photo, Mobile No., email, Role, Username, Password, Building/Flat number, Locality, City, Pincode, Added On Date )     2.2 Update Customer Profile  (Role,FullName,mobile number/Username, password, email,Building/Flat number, Locality, City, Pincode, Photo, save button )    2.3 Add Bookings  (Check In Date,Check In Time,Check Out Date,Check  Out Time,Upload image,Description,  Number of Members or Guests in contact with the customer,      Take name and contact number of each family member  If a guest came to meet, take their ID proof (Aadhaar number, Driving License, PAN number)[Item Name , cost, quantity, sub total, item Description]),submit.    2.4 List Bookings  (Check In Date,Check In Time,Check Out Date,Check Out Time,  Invoice amount, Action[view image,edit booking,add items, invoice,delete])     1. All Bookings  * Customer Name * Check In Date * Check In Time * Check Out Date * Check Out Time * Invoice amount * Action(View Image, edit booking,add items,Invoice , delete)  1. Expenses   6.1 Add Expenses   * Expense Amount (in Rs) * Expense Type * Expense Date * Note * Upload Image * Submit * clear   6.2 List of Expenses  Expense Date  Expense Amount  Expense Type  Expense Note  Action (View Image, Delete)   1. Income   7.1 Add Income  - Income Amount (in Rs)   * Income Type * Income Date * Note * Upload Image * Submit * clear   7.2 List of Income  - Expense Date  - Expense Amount  - Expense Type  - Expense Note  - Action (View Image, Delete)     1. Enquiry   - FullName  - Mobile  - Email  - Message  - Enquired On  - Action   1. Settings   9.1 Staff  9.2 Business Settings |

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# **4. Technology**

**4.1 Hardware specifications**

|  |  |
| --- | --- |
| Operating system | Window, Linux |
| ⁠Memory | 8GB total RAM |
| Memory storage | 20GB |

**4.2 Tech Stacks**

|  |  |
| --- | --- |
| **Technologies** | **Languages** |
| Frontend | ReactJs, Bootstrap, Material UI |
| Backend | Java, SpringBoot Rest |
| Database | MySql |
| Version Control | Git and GitHub |
| Testing | Manual and Automated Testing |

**4.3 Teams**

|  |  |
| --- | --- |
| **Language** | **Members required** |
| Frontend |  |
| Backend and Database |  |
| Testing |  |

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# **5. Assumptions**

* The system will be used by hotel staff with basic technical knowledge.
* Internet access is required to run the Hotel Billing Management System.
* All users will have unique login credentials.
* The database can handle high-volume transactions efficiently.

# **6. Risks**

* + **Security Breach**: Any compromise in the authentication system can lead to unauthorised access.
  + **Data Loss**: Without regular backups, there’s a risk of data loss due to hardware failures.
  + **Performance Bottleneck**: Poor server response times during high-traffic periods.
  + **Third-Party Dependency**: Dependencies on external APIs (e.g., for payment gateways or SMS services) can delay response times.

# **7. Project Timelines \*** Yet to mention…!