**Online Hotel Management System**

Create Client Application in ASP.NET MVC Core Web Application and Rest Service using ASP.NET Web API

**Synopsis:**

The introducing software, Hotel Management System which is going to be implemented for Hotel will automate the major operations of the hotel. The Reservation System is to keep track in room and hall reservation and check availability. The Room Management System is for manage all room types room services. The Inventory Control System will keep track in all inventories of the hotel and guest details will handled by guest management. Administration department will monitor the all .There is three End Users for HMS. The End Users are Owner, Manager and Receptionist. Owner can access to all system functionalities without any restrictions. Manager can access to all system functionalities with limited restrictions. Receptionist can only access to the Reservation management section. To keep restrictions for each End User levels HMS can create different Login functions.

The objectives of the automated Hotel Management System is to simplify the day to day processes of the hotel. The system will be able to handle many services to take care of all customers in a quick manner. As a solution to the large amount of file handling happening at the hotel, this software will be used to overcome those drawbacks. Safety, easiness of using and most importantly the efficiency of information retrieval are some benefits the development team going to present with this system. The system should be user appropriate, easy to use, provide easy recovery of errors and have an overall end user high subjective satisfaction.

## Product Functions

* Make Reservations
* Search Rooms
* Add Payment
* Issue Bills
* Manage Guest (Add, Update Guest)
* Manage Room Details (Add, Update, Delete)
* Manage Staff (Add, Update, Delete, View)
* Manage Inventory (Add, Edit, Delete)
* Set Rates
* Retrieve Reports (Staff payment, Income)
* Manage Users (Add, Update, Delete)
* E-mail notifications

Manager



View

Insert

Update

Delete

Add

Update

Delete

Add

Update

Reports

Department Details

Department Details

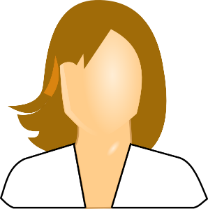
Department Details



Room/Staff/InventoryDetails

Room/Staff/InventoryDetails

Room/Staff/InventoryDetails



GuestDetails

GuestDetails

Delete

GuestDetails

Search

Rooms

Make

Reservations



Owner

Receptionist

Issue

Bill

**Functional Requirements**

|  |  |
| --- | --- |
| Function 1 | **Make Reservations** |
| Input | Code, Number of children, Number of adults, check-in date, check out date, status, Number of nights |
| Output | Database Record, Database successfully updated message |
| Processing | Validate the given details and record the information in to the database. |

|  |  |
| --- | --- |
| Function 2 | **Add Guest** |
| Input | Member code, Phone number, Company, Name, E-mail, Gender, Address |
| Output | Database Record, Database successfully updated message |
| Processing | Validate the given details and record the information in to the database. |

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| --- | --- |
| Function 3 | **Add staff member** |
| Input | Code, Employee Name, Employee Address, NIC, Salary, Name Age, Occupation, E-mail |
| Output | Database Record, Database successfully updated message |
| Processing | Validate the given details and record the information in to the database. |

|  |  |
| --- | --- |
| Function 4 | **Search Rooms** |
| Input | Period, Check-in, Check-out, Guest |
| Output | Display a message with available room details |
| Processing | Validate the given details and check for the available rooms in a given time period and return it’s availability. |

|  |  |
| --- | --- |
| Function 5 | **Add Payments** |
| Input | Total, pay time, Credit card details |
| Output | Database Record, Database successfully updated message |
| Processing | Validate the given details and record the information in to the database. |

|  |  |
| --- | --- |
| Function 6 | **Issue Bill** |
| Input | Billing no, Quantity, Price, Taxes, Date, Services, Unit |
| Output | Printed version of the bill |
| Processing | Validate the given details and total cost is calculated according to the  Services gain by the customer. |

|  |  |
| --- | --- |
| Function 7 | **Set Rates** |
| Input | Check-in, Check-out, Day, No.of guests, First night price, Extension price |
| Output | Database Record, Database successfully updated message |
| Processing | Validate the given details and record the information in to the database. |

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**Description:** Create below sample reference project structure, which will help to reuse most of module for Web application. You are allowed to bring your own project structure and project to achieve the requirement.