**Resort Management System**

**Introduction:**

A Resort system manages information about rooms, reservations, customers, and customer billing. A customer can make reservations, change, or cancel reservations through the hotel website. When a customer makes reservations, he/she needs to check if a room which customer want to reserve is available or not. If a room is available, the customer enters his/her information to the system and receives a confirmation number from the web site.

This web-based platform integrates various modules to automate key aspects of resort management, including reservation handling, guest services and provides detailed information about various facilities.

**Scope**:

**1.Reservation System:**

The system offers an intuitive reservation module, allowing guests to easily browse available accommodations, check pricing, and make reservations online. Resort staff can manage bookings, view room availability, and handle reservation modifications through a centralized dashboard.

**2. Facilities and Services Information:**

Guests can explore detailed information about the hotel's facilities and services, from dining options to recreational amenities. This feature empowers guests to make informed decisions and enhances their overall experience.

**3.Secure Payment Processing:**

The website incorporates secure payment gateways, ensuring that financial transactions are encrypted and protected. Guests can confidently make online payments for room reservations, promoting a secure and convenient booking process.

**4.Real-Time Room Status Update:**

Hotel staff can update the status of rooms in real-time, allowing for efficient room turnover and cleaning schedules. This feature minimizes check-in delays and ensures that guests experience a seamless transition into their accommodations.

**6. Check-In and Check-Out Services:**

Streamlined and efficient check-in and check-out processes. Contactless options for enhanced guest safety.

**7. Activities and Events Management:**

Booking and management of resort activities and events.

Integration with event planning tools for conferences and weddings.

**8. Guest Feedback and Reviews:**

The website includes a feedback and review system, encouraging guests to share their experiences. Hotel management can use this valuable information to make improvements and address any concerns promptly, fostering a culture of continuous improvement.

**Technologies Used:**

**1.Database Management Systems (DBMS):**

MySQL or other relational databases for storing and managing data related to reservations, guests, and transactions.

**2.Programming Languages:**

Java or .NET for developing the backend logic and business processes.

**3.Web Development Frameworks:**

Spring (Java), or ASP.NET for building the web-based interfaces for both customers and administrators.

**4.Frontend Technologies**

HTML, CSS, JavaScript and Bootstrap frameworks such as React, Angular for creating user-friendly and responsive interfaces.

**Tools:**

1.VS Code

2.Eclipse/ Netbeans /Intellij

3.MYSQL

**Modules:**

1.User Module

2.Admin Module