

Garden Coast:

Online Booking Reservation System

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Project Name: Garden Coast: An Online Booking Reservation System

1.0 Introduction/ Background

Garden Coast is a large resort consisting of different kinds of management where you can find different sizes our distinct management style introduces a variety of cottage choices Within the expansive expanse of Garden Coast Resort, our unique management approach offers a diverse array of Young Cottages each catering to different preferences and group sizes. Explore the expanses of Garden Coast Resort with our E-Reservation system, where you can effortlessly navigate through a selection of cottage sizes. And located at Tanza Cavite

E-Reservation, our online booking system, guests can effortlessly explore and select from a range of cottage sizes, ensuring a personalized and comfortable stay. Whether you seek an intimate escape or accommodations for a larger group, E-Reservation streamlines the process, providing real-time availability updates and secure bookings. Embrace the freedom of choice at Garden Coast Resort with E-Reservation, where your ideal Young Cottage awaits your seamless reservation.

Garden Coast Resort stands out with its unique management approach, featuring a variety of Young Cottages in different sizes. The integration of E-Reservation, our online booking system, adds a layer of convenience for guests, allowing them to effortlessly choose from a diverse selection of cottages. This system ensures a personalized and comfortable stay, catering to individual preferences and group needs. With real-time availability updates and secure bookings, Garden Coast Resort invites guests to embrace the freedom of choice.

2.0 Objective

The project aims to improve and develop a Manual System for Booking Reservations for Garden Coast Resort.

Particularly, it aims to:

1. Advance a request booking that will allow them to request and receive updates on the booking reservation of their request;
2. Advance a booking reservation that will be recorded in the manual system;
3. Advance a booking that will generate time-consuming and maintaining accurate records;
4. Advance to confirm reservations or cancellations;
5. Advance the processing of payment and communication between guests and staff;
6. test and analyze the entire system;

3.0 Current Situation and Problem/Opportunity Statement

The current manual system of booking reservations might lead to delays, errors, and a lack of efficiency. Manual booking processes can be time-consuming leading to inefficiencies in managing reservations and potential double-bookings.

Looking for availability on a certain cottage and time has to be done manually, checking past records of reservations that may or may not be updated on time. Thus, errors loss of information, and difficulty in maintaining accurate records are inevitable which can lead to costly mistakes and unhappy experiences for guests. Manual processes consume more resources, including paper for logs and forms, leading to environmental concerns and increased operational costs.

Manual systems also take up more time on administrative and management tasks instead of other operations. The time to confirm reservations or cancellations, processing of payments, and communication between guests or staff will take up more time when it is not automated with a management system.

System Architecture

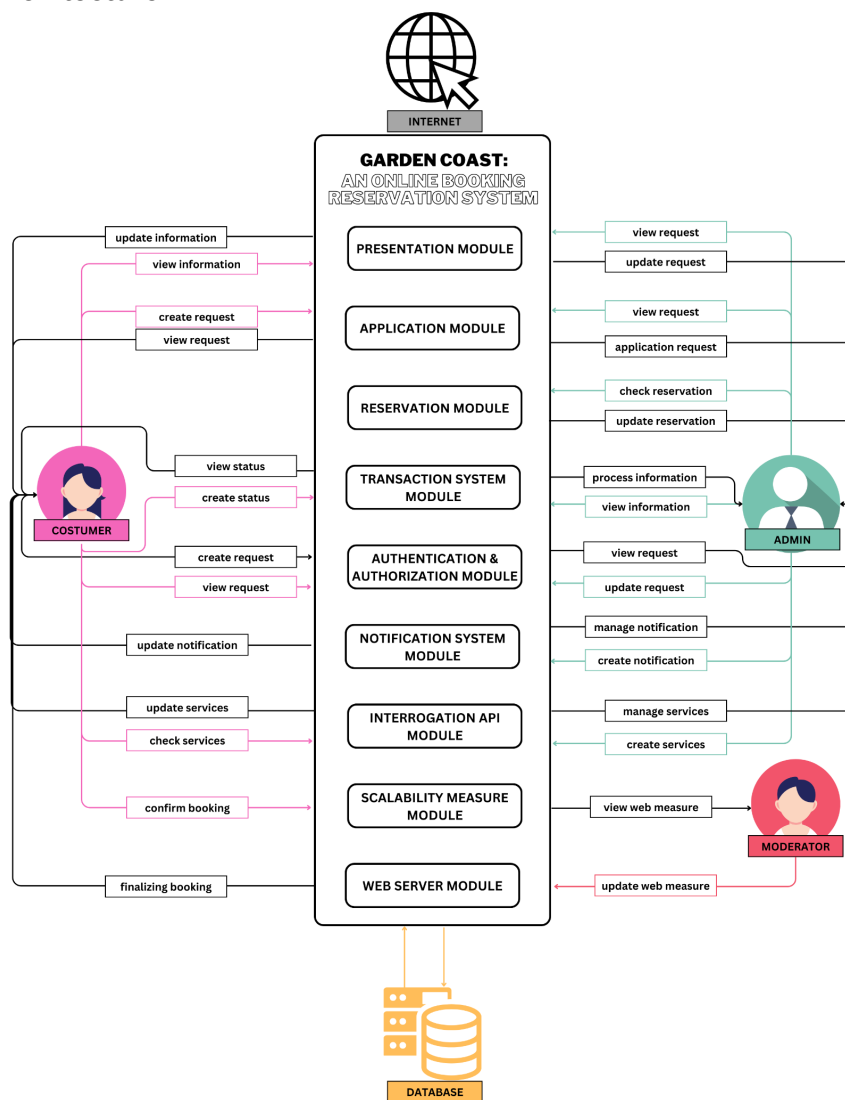


Figure 1: System Architecture of the Garden Coast: Online Booking Reservation System

Fig.1 shows the web system architecture of the Garden Coast: An Online Booking Reservation System of Coastal Resort. The system is divided into different modules: the Presentation Module, Application Module, Reservation Management Module, Transaction Handling Module, Authentication and Authorization module, Notification System Module, Third-Party Integration module, Scalability Measure module, and Web Server module .

- A. *Presentation Module*. The presentation module translates the user's action into a request and communicates with application module.
- B. *Application Module*. The applications module processes the user's request, managing business logic such as searching for available cottage checking conflict and handling reservation.
- C. *Reservation Management Module*. Reservation Management module, a booking logic, check beach availability, handles reservation and ensure data consistency.
- D. *Transaction Handling Module*. Transaction Reservations module integrates with payment gateway to securely process the user's payment information.
- E. *Authentication and Authorization*. The Authentication and Authorization process ensure secure access, authenticate the user, and control their permission throughout the booking process
- F. *Notification System Module*. Notification System module a real-time communication send notification to the user regarding booking confirmation updates and reminders.
- G. *Third-Party Integration*. Integration interface with external system (e.g. weather, service, mappings) to enhance the user experience.
- H. *Scalability Measure*. Scalability Measure ensure the system can handle increase traffic and concurrent user by implementing load balancing and scalable infrastructure.
- I. *Web Server*. The Web Server executes application logic and send responses back to the client, finalizing the booking process.