

Aquapark Project Overview

Project Overview

This project aims to create a comprehensive online platform for an aquapark, offering various functionalities for both customers and employees. Below are the main features of the system:

Features for Customers

1. Online Ticket Sales:

- Customers can purchase tickets online through the platform.
- Tickets are generated as PDF documents and sent to the customer's email using Amazon AWS.

2. Room Booking:

- Customers have the option to book rooms online for their stay at the aquapark.

3. Contact Information:

- Users can easily find contact information for the aquapark.

4. Reservation Management:

- Customers can check their reservations and download tickets from their accounts.

Features for Employees

1. Ticket Verification:

- Employees can verify tickets using the camera on their mobile devices through a dedicated worker/manager application.

2. Reservation Checking:

- Employees can check reservations stored in the database.

3. Managerial Functions:

- Managers can add or modify ticket prices through an in-app form.
- Manage user accounts by changing their details and roles.

4. Promotions Management:

- Managers can create promotions via an in-app form, specifying the display time and duration.
- Applied promotions automatically adjust ticket prices on the website, simplifying the staff's workload.

5. Dynamic Room Search:

- Users can dynamically search for available rooms based on their desired dates.

6. Payment Integration:

- The application integrates with a payment gateway (Stripe) for secure transactions.

7. REST API:

- A REST API is implemented to display data in the application, developed using React.

Technologies Used

- **Frontend:** React
- **Backend:** Java/Spring Boot Framework
- **Database:** PostgreSQL
- **Cloud Services:** Amazon AWS for email services
- **Payment Gateway:** Stripe
- Integration with Weather API / Google Maps