

## **Assignment: Designing an Online Booking System for a Theme Park Picnic Island**

Imagine there is an island that serves as a popular picnic and fun destination for local tourism. A company is planning to open a theme park on a separate island nearby.

here is a detailed list of roles, their responsibilities, and GUI functionalities:

### **1. Visitor (End-user/Customer)**

#### **Features available:**

- Register/login to the system.
- Book hotel stays
- Purchase ferry tickets (only if a valid hotel booking exists).
- Purchase theme park tickets to book activities inside the theme park (rides, shows, etc.) or Book beach events
- View available services and promotional advertisements.
- Access the map of the island with locations.

#### **GUI Features:**

- User registration and login screens.
- Hotel booking interface with date selection and room preferences.
- Ferry ticket reservation form, with validation against hotel bookings.
- Theme park ticket purchasing page, showing available dates and events for:
  - Activity and event booking screens.
  - Beach events booking interface.
- Promotional banners/ads on the homepage.
- Interactive island map displaying different locations.
- Confirmation and payment screens for each booking.

## **2. Hotel Manager / Hotel Staff**

### **Features:**

- Manage hotel room availability.
- Handle hotel bookings (create, update, cancel).
- View booking reports.
- Manage promotional offers for hotel stays.

### **GUI Features:**

- Hotel CRUD management dashboard.
- Booking management interface.
- Promotions and advertisement input forms.

## **3. Ferry Operator / Ferry Staff**

### **Features:**

- Validate ferry ticket requests (check if the customer has a valid hotel booking).
- Manage ferry schedules and availability.
- Provide customer with a ferry pass if valid hotel booking exist.

### **GUI Features:**

- Ticket validation interface (check booking details).
- Schedule management dashboard.
- Ferry ticket issuance form.
- Passenger list & trip reports.

## **4. Theme Park Management / Ticketing Staff**

### **Features:**

- Create and manage event schedules.
- Handle bookings for rides, shows, and beach events.

- Manage tickets and capacity limits.
- Sell theme park tickets (online and at entrance).
- Manage availability of tickets for specific days.
- Track ticket sales.
- Manage inside-park activities and events.

**GUI Features:**

- Event scheduling and management UI.
- Booking management for individual activities.
- Capacity monitoring dashboard.
- Promotions for activities.
- Ticket sales CRUD dashboard.
- On-site ticket validation interface.
- Activities and events schedule management.
- Reports on ticket sales and visitors.

**6. Admin / System Administrator****Responsibilities:**

- Oversee all system operations.
- Manage user accounts and permissions.
- Maintain island map data and locations.
- Manage advertisements and promotional content.
- Generate usage and sales reports.
- Resolve issues, update system content.

**GUI Features:**

- Administrative dashboard with access controls.
- User management interface.
- Content management system for ads, map updates.

- System reports and analytics.