1. **Customer Relationship Management (CRM):**
   * **Guest Management:**
     + Create and manage guest profiles (name, contact details, preferences, stay history)
     + Track guest interactions (emails, calls, inquiries)
     + Segment guests based on demographics and preferences for targeted marketing campaigns
   * **Reservation Management:**
     + Manage online and offline reservations
     + Track room availability and pricing
     + Process payments and generate invoices
   * **Loyalty Program Management:**
     + Create and manage loyalty programs
     + Track loyalty points and reward redemption
     + Send personalized offers and promotions to loyal guests
2. **Resort Management:**
   * **Employee Management:**
     + Manage employee profiles (roles, permissions, contact details)
     + Assign tasks and track progress
     + Manage payroll and benefits
   * **Inventory Management:**
     + Track room inventory (availability, type, pricing)
     + Manage other resort amenities (spa services, equipment rentals)
     + Maintain stock levels and reorder supplies
   * **Menu Management:**
     + Manage food and beverage menus (items, descriptions, pricing)
     + Update menus seasonally or based on availability
     + Track ingredient inventory and costs
   * **Facility Management:**
     + Manage resort facilities (pools, gyms, restaurants)
     + Schedule maintenance and repairs
3. **Reporting and Analytics:**
   * Generate reports on guest demographics, revenue, occupancy rates, loyalty program activity, etc.
   * Gain insights into guest behavior and preferences
   * Identify trends and opportunities for improvement
4. **Admin Panel:**
   * Manage user accounts and access control
   * Configure system settings and integrations
   * Access system logs and reports

**Technology Stack:**

* Frontend: Angular (single-page application)
* Backend: Node.js (Express framework)
* Database: MongoDB (flexible document database)
* Other: Cloud storage (e.g., AWS S3) for storing guest documents and images

**Data Flow:**

1. Guest data is captured during online bookings, inquiries, or manual entry.
2. Guest data is stored in the CRM module along with interaction history and preferences.
3. Reservation data is processed through the reservation management module, updating room availability and generating invoices.
4. Resort data (employees, inventory, menus, facilities) is managed in dedicated modules.
5. Reports and analytics provide insights based on CRM and resort data.

**Prototype Screens (User Interface - UI):**

* **Guest Dashboard:** View booking details, access amenities, request services, update preferences.
* **Reservation Management:** Create/modify reservations, view availability calendar, manage pricing.
* **Guest Profiles:** View detailed profiles, track interaction history, segment guests for marketing.
* **Employee Portal:** Manage tasks, update reports, communicate with colleagues.
* **Inventory Management:** Track stock levels, reorder supplies, manage menus.
* **Facility Management:** Schedule maintenance, view occupancy rates, manage bookings.
* **Reporting & Analytics:** Visualize guest behavior, revenue trends, occupancy rates.
* **Admin Panel:** Configure settings, manage users, access system logs.

**Note:** This is a high-level prototype. The specific features and UI elements can be further customized based on your specific needs and target audience.

**Additional Considerations:**

* **Security:** Implement robust security measures to protect guest data (e.g., encryption, access controls).
* **Integrations:** Consider integrating with payment gateways, email marketing platforms, accounting software, etc.
* **Mobile App:** Develop a mobile app for guests to manage bookings, access resort information, and engage with services on the go.