

Pages:
Landing Page
Login Page
Search Page
Details Page
Booking Flow Page
Add Guests (show details and add guests)
Pay Now (Review page with details and guests)

Redirect to Bookings page once confirmed.

Dashboard Profile Page My Bookings Page (list) Travellers (list and edit)

Admins:

My Bookings (tabular, paginated) My Hotels (add and list) Hotel -> Rooms (add and list)

Inventory -> Calendar view of Inventory. Can update inventory on any date range.

Design Patterns: Dynamic Pricing Strategy Double getPrice(roomld, startDate, endDate) { BasePricingStrategy: The base price OccupancyPricingStrategy: if booked above 80% then increase price UrgencyPricingStrategy: If booking within 7 days, then increase price HolidaysPricingStrategy: Check if it is a holiday, then increae price DiscountPricingStrategy: If sale is going on, then decrease the price Strategy Pattern DecoratorDesign Pattern

APIs

- HotelManager:
 POST, GET /api/v1/admin/hotels
 GET, PATCH, DELETE /api/v1/admin/hotels/{hotelld}
 POST, GET /api/v1/admin/hotels/{hotelld}/rooms
- · GET, PATCH, DELETE /api/v1/admin/hotels/{hotelld}/rooms/{roomld}
- · GET /api/v1/admin/bookings (QP: hotelld, startDate, endDate, status)
- PATCH /api/v1/admins/inventory/{hotelld}/{roomld}/{date}

- Guest:
 GET: /api/v1/hotels/search (QP: city, checkinDate, checkoutDate, numberOfRooms): PAGINATED Response
 GET /api/v1/hotels/{hotelld}/getAllRooms (QP: checkinDate, checkoutDate, numberOfRooms)
 GET /api/v1/hotels/{hotelld}/rooms/{roomld}

- POST /api/v1/bookings
- POST /api/v1/guests
 PATCH /api/v1/bookings (RB: array of guestId, paymentMethod)
 POST /api/v1/payments/{bookingId}

- GET /api/v1/bookings
 GET /api/v1/bookings/{bookingld}
 PATCH /api/v1/bookings/cancel

User:

- POST /api/v1/auth/login
- POST /api/v1/auth/signup
 POST /api/v1/auth/verify

System:
• PATCH /api/v1/bookings/resetBookings [Cron Job every 1 minute]







