

Web Application Outline for Short-Stay Apartment Business

1. Core Features

- Guest Booking System
- Apartment naming system (no numbers)
- Real-time availability calendar
- Reservation management (check-in/out dates)
- Guest details capture (name, contact, ID verification)
- No-refund policy embedded in booking confirmation/receipt
- Confirmation ID generation for each transaction
- Food Ordering System

Two order modes:

- Order Now – Immediate preparation/delivery
- Scheduled Orders – Pre-booked for specific times (linked to guest stay)
- Barcode scanner integration (redirects to menu when scanned)
- Menu categorization (breakfast, lunch, dinner, snacks, beverages)
- Order tracking (pending, preparing, delivered)

Payment Integration

- Paystack API for seamless payments
- POS system synchronization (transaction IDs linked to orders)
- Receipt generation (with no-refund policy disclaimer)

Thermal Printer Setup

- Thermal printer for:
- Booking confirmations
- Food order tickets
- Payment receipts

Website Integration

- Direct links on the website for:
- Room reservations
- Food ordering
- Mobile-responsive design for easy access

API endpoints for:

- Booking management
- Food ordering

- Payment processing (Paystack)
- POS & Printer Integration
- WebSocket/API for real-time order updates
- Security & Compliance
- SSL encryption
- Guest data protection (GDPR-compliant)
- Paystack PCI-DSS compliance

2. Workflow Breakdown

- Guest Booking
 - Guest selects apartment by name (e.g., "Sunset View," "Ocean Breeze").
 - Chooses dates → enters details → pays via Paystack.
 - Receives confirmation email/receipt (with no-refund policy).
 - Front desk receives thermal-printed ticket with Confirmation ID.

Food Ordering

- Option 1: Guest scans barcode (redirects to menu).
- Option 2: Orders via website link.

- Selects "Order Now" or "Schedule for Later" (e.g., breakfast at 8 AM).
- Payment processed → order sent to kitchen via thermal printer.
- POS & Front Desk Sync
- Front desk personnel enter Confirmation ID from POS into the system.
- Ensures orders are linked to the correct guest/apartment.

3. Additional Features

- Admin Dashboard
- Manage apartment availability.
- Track food orders/guest requests.
- View financial reports (Paystack transactions).
- Guest Portal
- Profile for repeat guests (order history, preferences).
- Option to reorder favorite meals.
- Feedback System
- Post-stay surveys (to improve service).

4. Implementation Steps

- Phase 1: Booking system + basic UI.
- Phase 2: Food ordering + Paystack integration.
- Phase 3: Barcode scanner + thermal printer setup.
- Phase 4: Testing & launch.