



Booking & Availability Flow – V1

📌 Core Principle

- ◆ Property availability is NOT stored.
 - ◆ Availability is always derived from bookings.
 - ◆ Only **confirmed** and **active** bookings block dates.
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🧭 1 High-Level Booking Flow

- flowchart TD
-
- A[Tenant selects property & dates] --> B{Check Availability}
-
- B -- Not Available --> C[Show Unavailable]
- B -- Available --> D[Pay 50 EGP Verification]
-
- D --> E[Create Booking: requested]
- E --> F[Notify Landlord]
-
- F --> G{Landlord Decision}
-
- G -- Reject --> H[Status: rejected]
- H --> I[Return 50 EGP as Credit]
-
- G -- Approve --> J[Status: approved]
-
- J --> K{Payment Method}
-
- K -- Cash on Delivery --> L[Status: confirmed]
-
- K -- Electronic --> M[Status: payment_pending]
- M --> N[Tenant uploads receipt]
- N --> O[Status: payment_uploaded]
- O --> P[Verify Payment]

- P --> Q[Status: confirmed]
 -
 - Q --> R[Check-in Date]
 - R --> S[Status: active]
 -
 - S --> T[End Date Auto]
 - T --> U[Status: completed]
-

2 Cancellation Flow

- flowchart TD
 -
 - A[Booking before active] --> B{Cancel Request}
 -
 - B -- Before Approval --> C[Status: cancelled]
 - C --> D[Return 50 EGP as Credit]
 -
 - B -- After Approval but before Check-in --> E[Status: cancelled]
 - E --> F[Apply Cancellation Policy]
 -
 - G[Booking in active] --> H[No Cancellation Allowed]
-



3 Expiry Flow (No Payment)

- flowchart TD
 -
 - A[approved] --> B[payment_pending]
 - B --> C{Payment within deadline?}
 -
 - C -- No --> D[Status: expired]
 - D --> E[Property becomes available]
 - D --> F[50 EGP not refundable]
 -
 - C -- Yes --> G[payment_uploaded]
-

4 Landlord No-Show Flow

- flowchart TD
 -
 - A[confirmed] --> B{Landlord fails to deliver?}
 -
 - B -- Yes --> C[Status: cancelled]
 - C --> D[Refund Tenant]
 - C --> E[Deduct penalty from Landlord]
 - C --> F[Decrease Landlord rating]
 -
 - B -- No --> G[Proceed to active]
-

5 Commission Trigger Flow

- flowchart TD
 -
 - A[confirmed] --> B[Landlord confirms check-in]
 - B --> C[Status: active]
 -
 - C --> D[Trigger Commission Event]
 -
 - D --> E[Collect 10% from Tenant - First Month Only]
 - D --> F[Collect 10% from Landlord - First Month Only]
 -
 - D --> G[Record Revenue Entry]
-

6 Availability Logic (Derived)

- flowchart TD
-
- A[Requested Dates] --> B[Check bookings table]
-
- B --> C{Any overlapping booking?}
-
- C -- Yes --> D{Status confirmed or active?}

- D -- Yes --> E[Not Available]
 - D -- No --> F[Continue Checking]
 -
 - C -- No --> F[Continue Checking]
 -
 - F --> G[Check property_unavailability table]
 -
 - G --> H{Blocked dates found?}
 -
 - H -- Yes --> E
 - H -- No --> I[Available]
-



7 Property Status Flow (Administrative Only)

- flowchart TD
-
- A[draft] --> B[approved]
- B --> C[blocked]
- C --> B
- B --> D[archived]

⚠ Property never enters booked/rented states.
Availability is purely calculated.



Booking Status Reference

Status	Meaning
requested	Tenant created request (50 EGP paid)

approved	Landlord accepted
payment_pend ing	Waiting for electronic payment
payment_uplo aded	Receipt uploaded
confirmed	Booking secured
active	Tenant checked in
completed	Rental period ended
rejected	Landlord refused
expired	Payment deadline passed
cancelled	Cancelled before check-in



Business Guarantees

- No overlapping bookings allowed.
 - Commission collected only after check-in.
 - 50 EGP required before sending request.
 - No cancellation allowed after **active**.
 - Availability is never stored manually.
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لو تحب
أعمل لك كمان:

-  Database Flow Section
-  Decision Matrix Table
-  RLS Security Flow
-  Event-Driven Architecture Section
-  Edge Case Scenarios README

قولي نكمل بأي مستوى هندسي 🔥

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