

Build a Booking System with AI

Execution Path

A structured route from idea to working output - the steps, outcomes, workflows, resources, and tools, in order.

Category: Business Systems Steps: 8 Phases: 4

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Source: <https://newprompt.net/blueprints/build-booking-system-with-ai/execution-map>

PATH SUMMARY

8 steps across 4 phases.

Use this document as a portable execution guide. Each step lists the expected outcome and the workflow, resource, and tool used in NewPrompt.

PHASE 1 · Define & Scope

Clarify what you're building and for whom.

Step 1 · Define the booking use case and rules

Frame what's being booked and the rules around it - durations, buffers, cancellation, who can book what - before modeling, so the availability logic reflects the real business instead of a generic calendar.

OUTCOME

Booking requirements and the availability rules the system enforces.

USED IN THIS STEP

Workflow AI Product Requirements Workflow
Resource Product Requirements Assistant
Tool System Prompt Generator

PHASE 2 · Design

Design the right solution before building.

Step 2 · Model resources, availability, and reservations

Design the data the system runs on - the resources, their availability windows, the bookable slots, and the reservations that consume them - so the model prevents two bookings for the same slot by structure, not by luck.

OUTCOME

A resources/availability/slots/reservations schema that prevents conflicts.

USED IN THIS STEP

Workflow AI Database Design Workflow
Resource Schema Design & ERD Prompt - Entities, Relationships, and Keys
Tool SQL Optimization Prompt

Step 3 · Design the booking API

Design the API the booking flow runs on - check availability, hold a slot, confirm, cancel, reschedule - as a contract, so the UI and integrations develop against a stable, conflict-safe surface.

OUTCOME

An API contract for checking availability and managing reservations.

USED IN THIS STEP

Workflow	AI API Design Workflow
Resource	Turn a JSON Schema into a Prompt
Tool	JSON Output Prompt Builder

Step 4 · Define customer accounts and access

Decide how customers sign in and what they can do - view, book, reschedule, cancel their own reservations - so booking access is scoped correctly and an admin can manage the schedule.

OUTCOME

Customer accounts and access rules for booking and management.

USED IN THIS STEP

Workflow	AI Auth & Identity Workflow
Resource	Authentication Strategy Prompt
Tool	Role Prompt Generator

Step 6 · Design the booking and admin UI

Design the component system the system is used through - the availability calendar, the booking flow, the admin schedule view - as reusable components, so the interface stays consistent as the system grows.

OUTCOME

A component system for the booking flow and the admin schedule.

USED IN THIS STEP

Workflow	AI UI & Component Design Workflow
Resource	Design System Spec Prompt - Components, States, and Accessibility
Tool	Markdown Output Builder

PHASE 3 · Build & Refine

Build, test, secure, and make it production-ready.

Step 5 · Wire calendar and notification integrations

Design the integrations a booking flow needs - calendar sync, confirmation and reminder emails, webhook events - with the retries and failure handling that keep a missed reminder from becoming a missed booking.

OUTCOME

Calendar, notification, and webhook integration contracts with failure handling.

USED IN THIS STEP

Workflow AI Integration & Webhook Workflow
Resource Turn a JSON Schema into a Prompt
Tool JSON Output Prompt Builder

Step 7 · Review security and abuse risks

Review the system the way an attacker would - account access, the booking API, and abuse like slot-hoarding or spam reservations - and back the findings with tests, before customers and their data are live.

OUTCOME

Account access, the booking API, and abuse paths reviewed for vulnerabilities.

USED IN THIS STEP

Workflow AI Security Review Workflow
Resource Security Code Review Prompt
Tool Code Review Prompt Generator

PHASE 4 · Ship & Validate

Ship with confidence and validate results.

Step 8 · Prepare the release

Cross from built to live - readiness checks, a deploy and rollback plan, and monitoring on bookings and integration health - so launch is deliberate and a broken reminder or double-booking is caught fast.

OUTCOME

The booking system shipped with a rollback path and launch checks.

USED IN THIS STEP

Workflow AI Deployment & Release Workflow
Resource Production Readiness Review Prompt
Tool Markdown Output Builder

This PDF is a static export of the NewPrompt execution path. It does not include workspace progress, personal notes, saved outputs, or project state.