



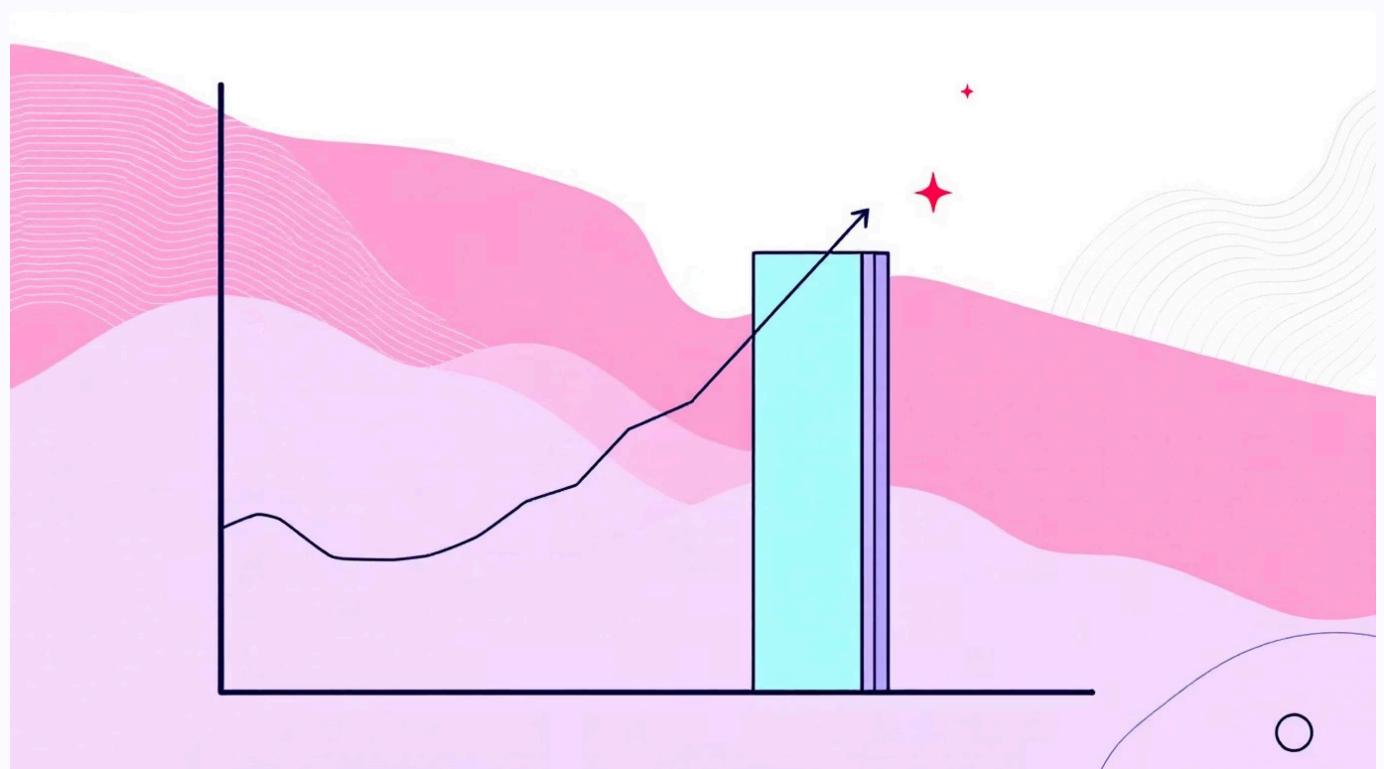
Intelligent Seat Booking System

Maximizing Office Space Utilization with Smart Scheduling

Navigating Limited Office Space

With a distributed workforce of 80 employees across 10 teams, our 50-seat office faces significant scheduling complexities. Daily capacity is limited to 40 employees, leading to inefficiencies and conflicts with manual booking systems.

- Limited Physical Space (50 seats)
- High Demand (80 employees)
- Daily Capacity Constraints (40 employees)
- Inefficient Manual Booking



OUR SOLUTION

Smart Scheduling for Modern Workspaces



AI-Driven Allocation

Automated, intelligent seat assignment based on batch schedules.



Real-time Occupancy

Live tracking and visualization of office space utilization.



Responsive Web Interface

Accessible anytime, anywhere, on any device.



Comprehensive Admin Control

Robust tools for employee, team, and system management.

KEY FEATURES

Designed for Flexibility and Control

Smart Batch Scheduling

Alternating schedules (e.g., Mon-Wed week 1, Thu-Fri week 2) to ensure fair access.

Flexible Seating

Designated 40 seats for batch-based booking and 10 floater seats for additional flexibility.

Intelligent Booking Logic

Prioritized booking for designated days, with floater access for non-designated days after 3 PM.

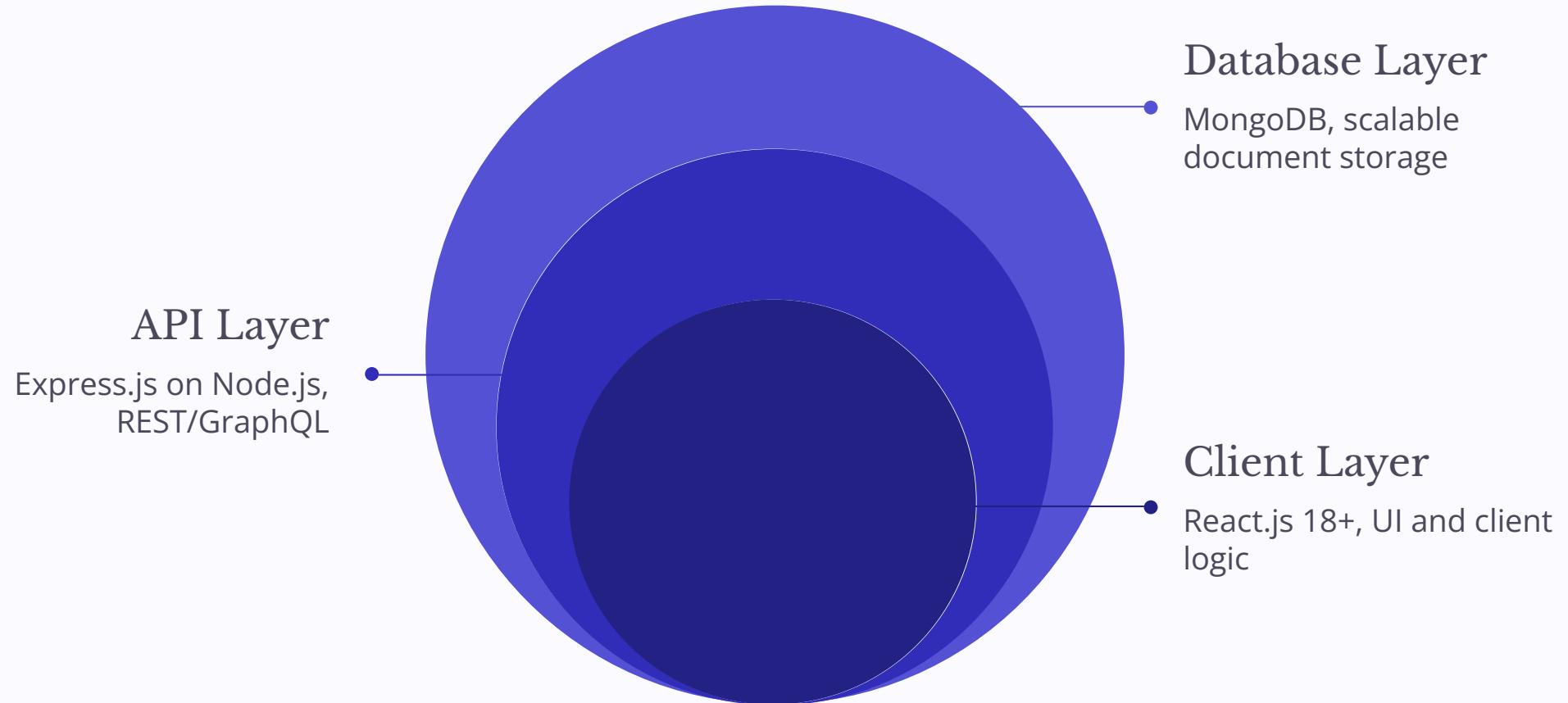
Real-time Dashboard

Live occupancy metrics, visual seat maps, and insightful statistics for optimal overview.

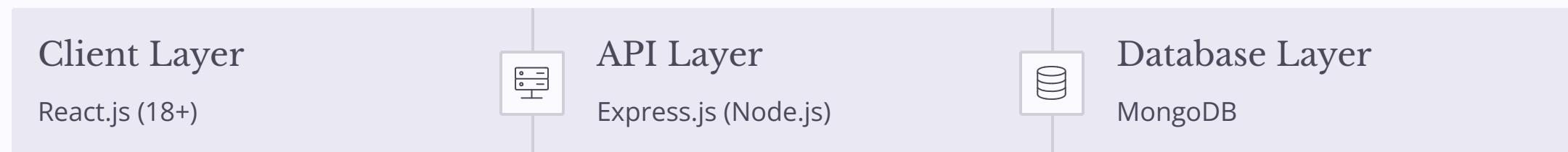
Admin Control Panel

Centralized management for employees, teams, and system configurations.

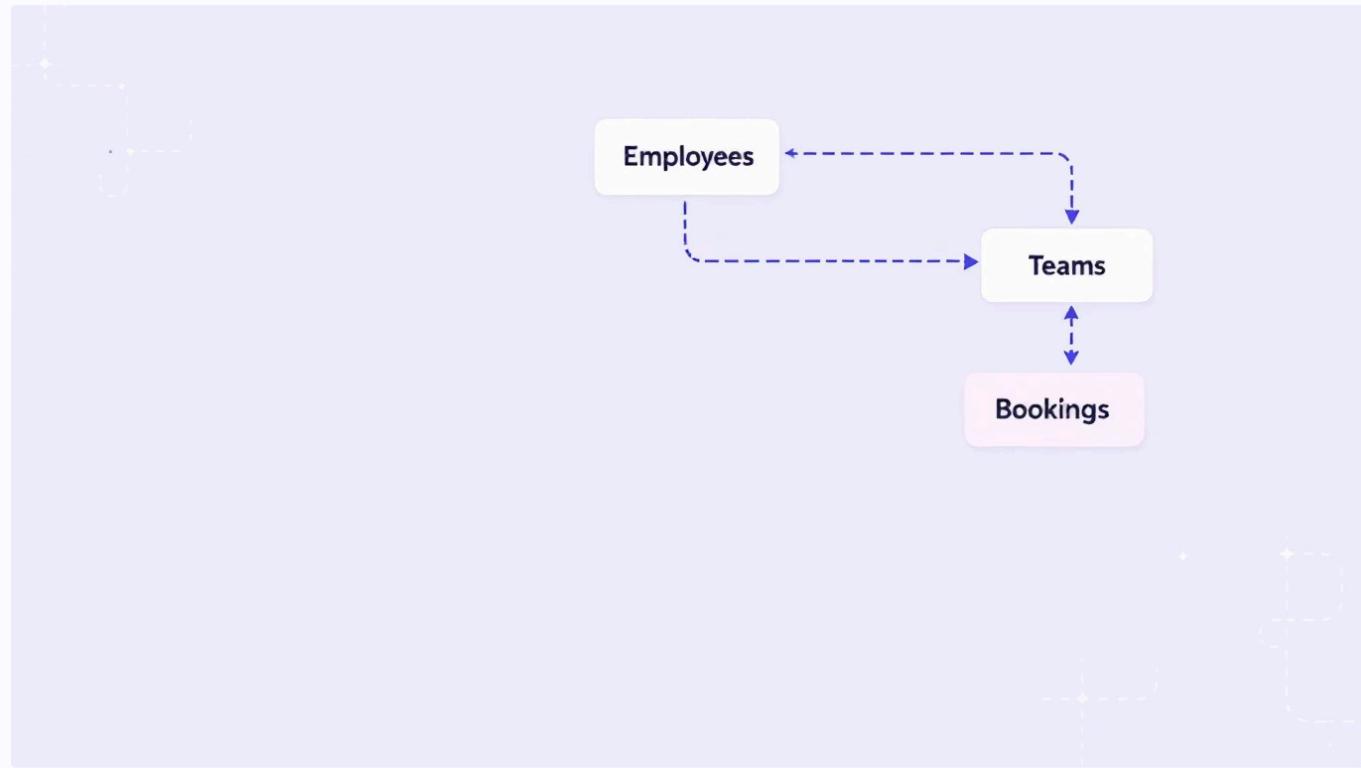
Robust and Scalable Architecture



Our system is built on a modern, three-tier architecture ensuring reliability, performance, and scalability.



Structured Data Model for Efficiency

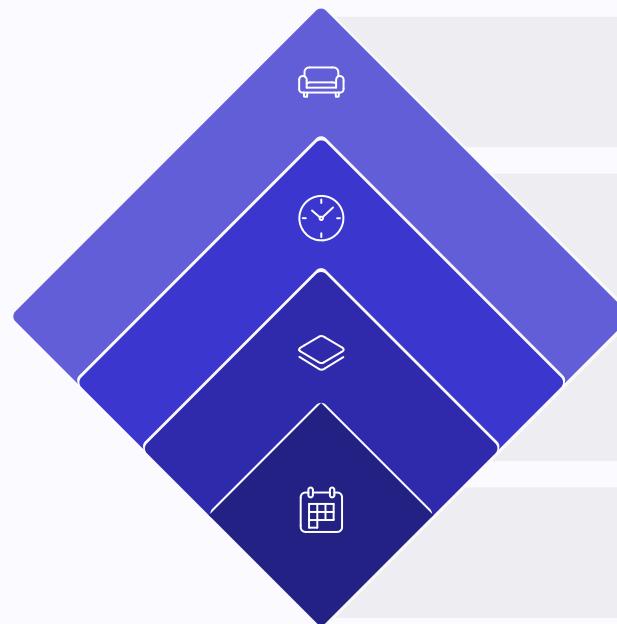


Our database is designed with distinct collections to manage employee information, team structures, seat availability, and booking records, ensuring clear relationships and data integrity.

Key Collections:

- **Employees:** Name, Email, Batch, Team
- **Teams:** Squad, Members
- **Seats:** Number, Type, Status
- **Bookings:** Employee, Seat, Date, Time, Status

Intelligent Booking Algorithm



Check Availability

Seats available?

Assess Floater Time

Within floater hours?

Determine Batch

Designated or non-designated

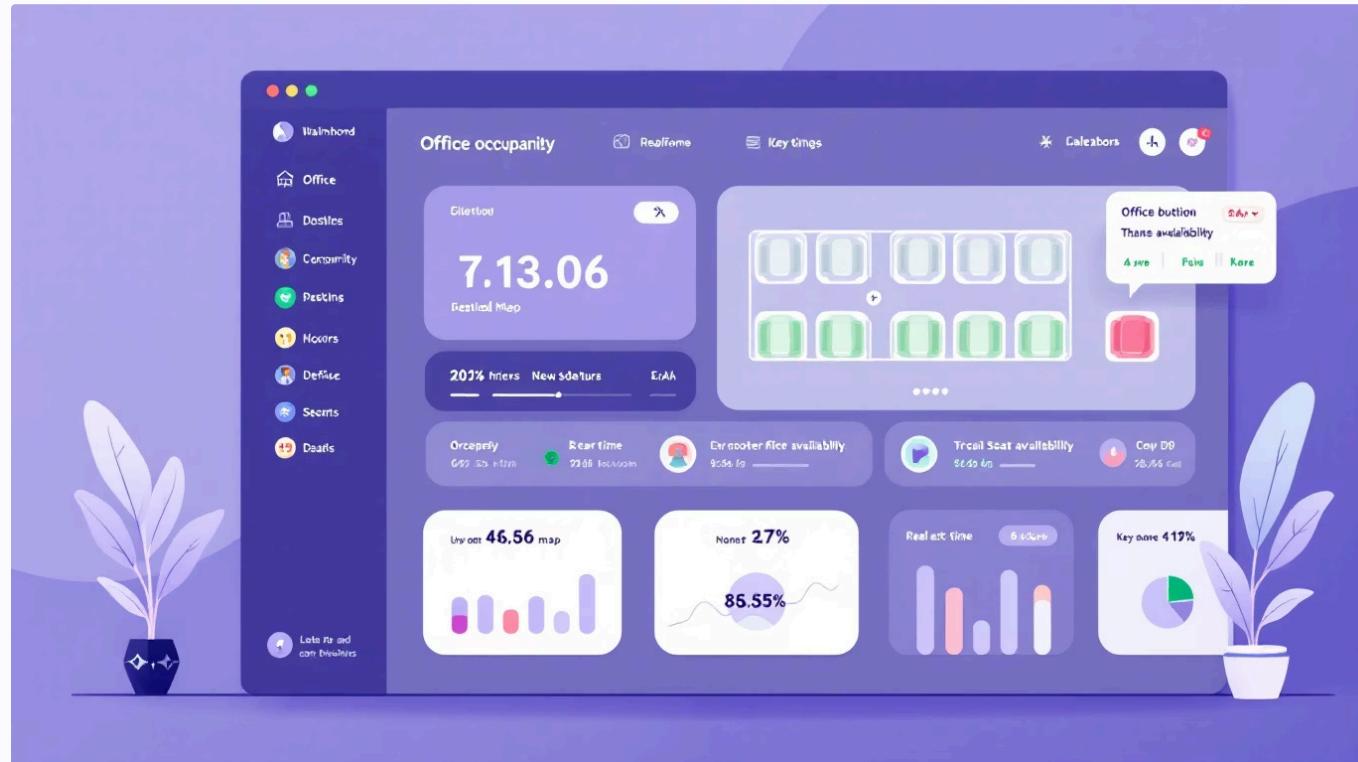
Check Day Type

Weekend/holiday or weekday

Booking Rules Matrix:

Day Type	Seat s	Time	Note s
Designated	1-40	9AM-6PM	Full Access
Non-Designated	41-50	3PM-6PM	Float Only
Weekend	None	—	Closed

Dashboard: Real-time Office Overview



The dashboard provides an intuitive, real-time snapshot of office occupancy, enabling quick decision-making and optimal space management.

Key Dashboard Features:

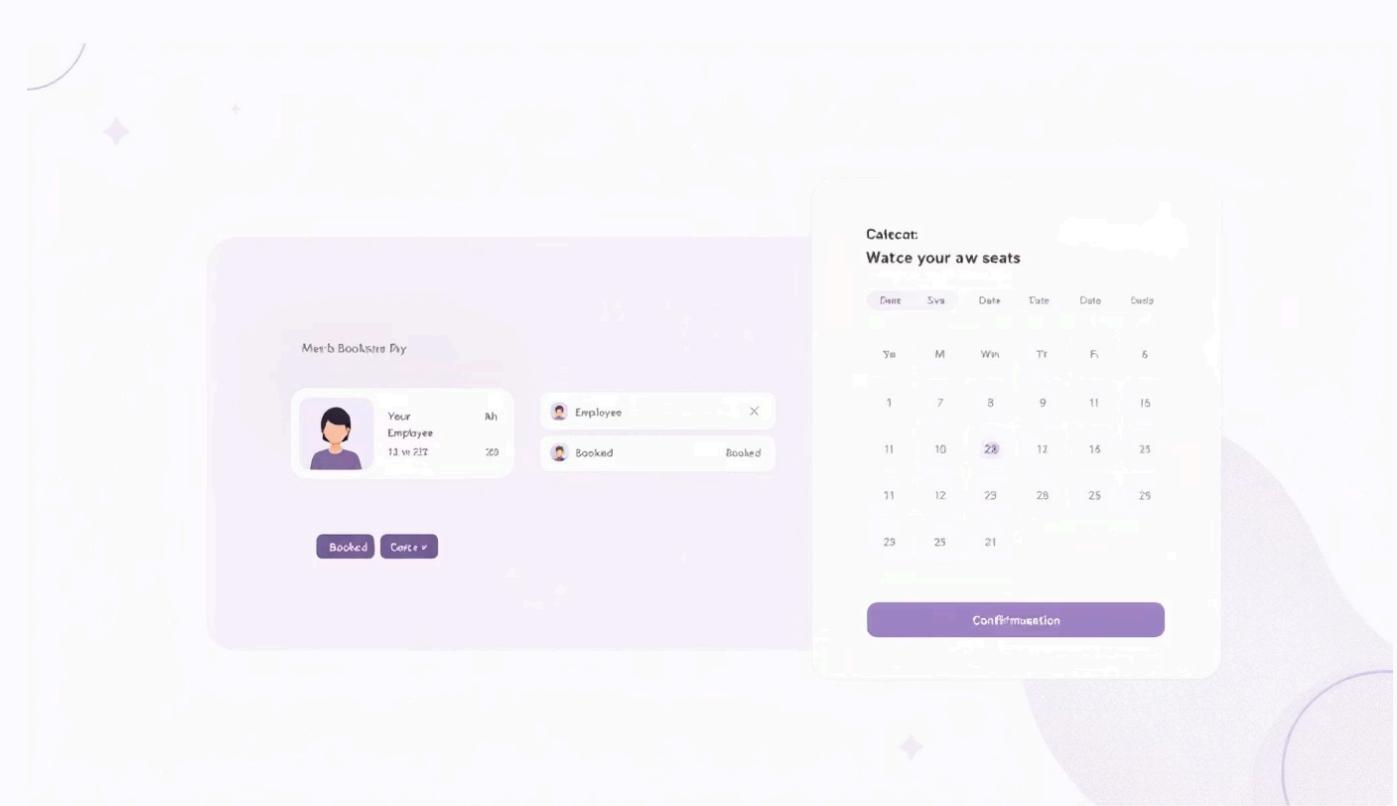
- Live occupancy metrics (total, booked, available)
- Interactive, color-coded seat grid
- System information cards for quick stats
- Date selector for daily insights
- Responsive layout for all devices

Booking Page: Seamless Seat Reservation

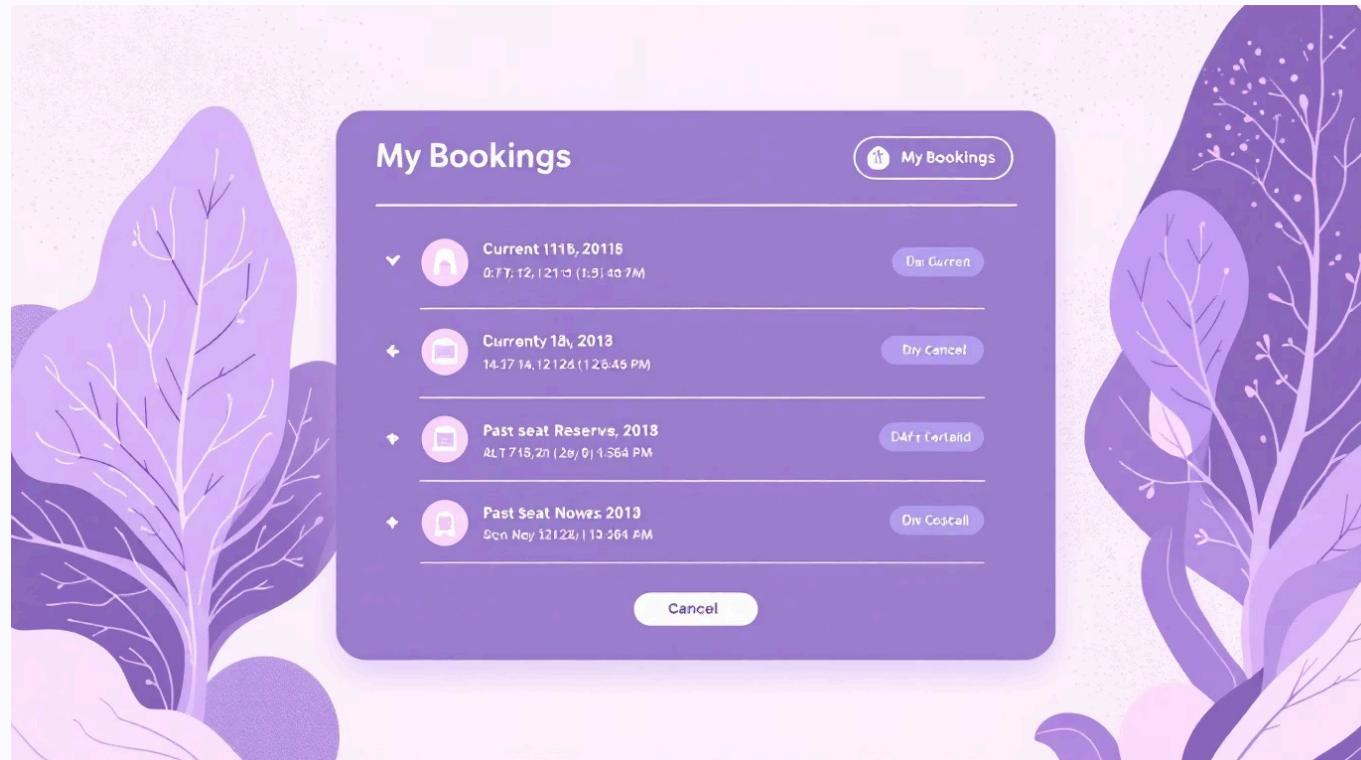
Intuitive UX for Booking

- Employee & date selectors
- Smart seat availability grid
- Real-time validation
- Clear guidelines and feedback

The booking interface simplifies the process of reserving a seat, guiding users with real-time feedback and clear rules.



My Bookings: Personal Management & History



Employees can easily view, manage, and track their past and upcoming seat reservations, offering transparency and control.

Features:

- Overview of active and historical bookings
- Detailed booking information
- One-click cancellation with instant updates
- Status indicators for clarity