Frontend Case – Hotel Booking System

About the Case

You are not expected to create a complete solution covering all features within the time limit (3-5 hours), and there is no single correct or best solution. This case is solely intended as a basis for discussion during the case interview.

Please avoid excessive use of ChatGPT or similar AI tools for your solution. It is much better to submit something incomplete that you wrote yourself than a working solution written by AI.

Select one or more features of the system and focus on solving them fully or partially. Consider how a complete solution would include all features. You are free, and encouraged, to make all necessary assumptions.

Be prepared to walk us through your code and explain the choices you made.

System: Hotel Booking Platform

Imagine a booking system for a medium-sized hotel chain. The system will initially be used at one hotel for booking and managing hotel rooms by both staff and customers. It will later be rolled out to the chain's other hotels.

Users must be able to reserve a room within a specific category (double room, single room, etc.) for a given period, or reserve a specific room (e.g., room 247). Reservations can be made via the hotel's website, third-party booking services, or by calling reception.

Staff should also be able to view room history (e.g., bookings, cancellations, occupancy, utilization rate, who stayed there when damage was reported, etc.).

The hotel chain also wants to introduce a loyalty program to reward their most profitable customers.

Key Features to Consider

- Customers can search for available rooms by date range and category
- Room availability calendar with real-time updates
- Multi-step booking flow with form validation
- Staff dashboard showing room status, bookings, and history
- Loyalty program member portal

Discussion Questions

During the interview, we will ask you to present your solution and explain your thinking. Be ready to discuss:

1. Walk us through your code. Why did you structure it this way?
2. What tradeoffs did you consider?
3. What would you do differently with more time?

Technical Notes

Finago Office uses React with MUI, but we would like you to use whatever you are most comfortable with in this case.

Mock the backend as needed — the focus is on frontend implementation quality, not backend functionality.

Good luck! We look forward to discussing your solution.