

Room booking demo

Software design specification / fictional application

This is a small design-document example, not an implemented service or a production-ready specification.

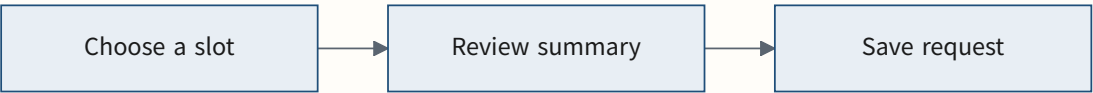
Purpose and scope

Show available rooms and record a booking request in a local demo. Real accounts, payments, external calendars and notifications are outside this example.

Requirements definition

ID	Proposed behavior	Example check
R1	List rooms and available slots	Reader can choose one slot
R2	Show a summary before saving	Room and time remain visible
R3	Reject a conflicting demo request	Conflict message is shown

Example flow

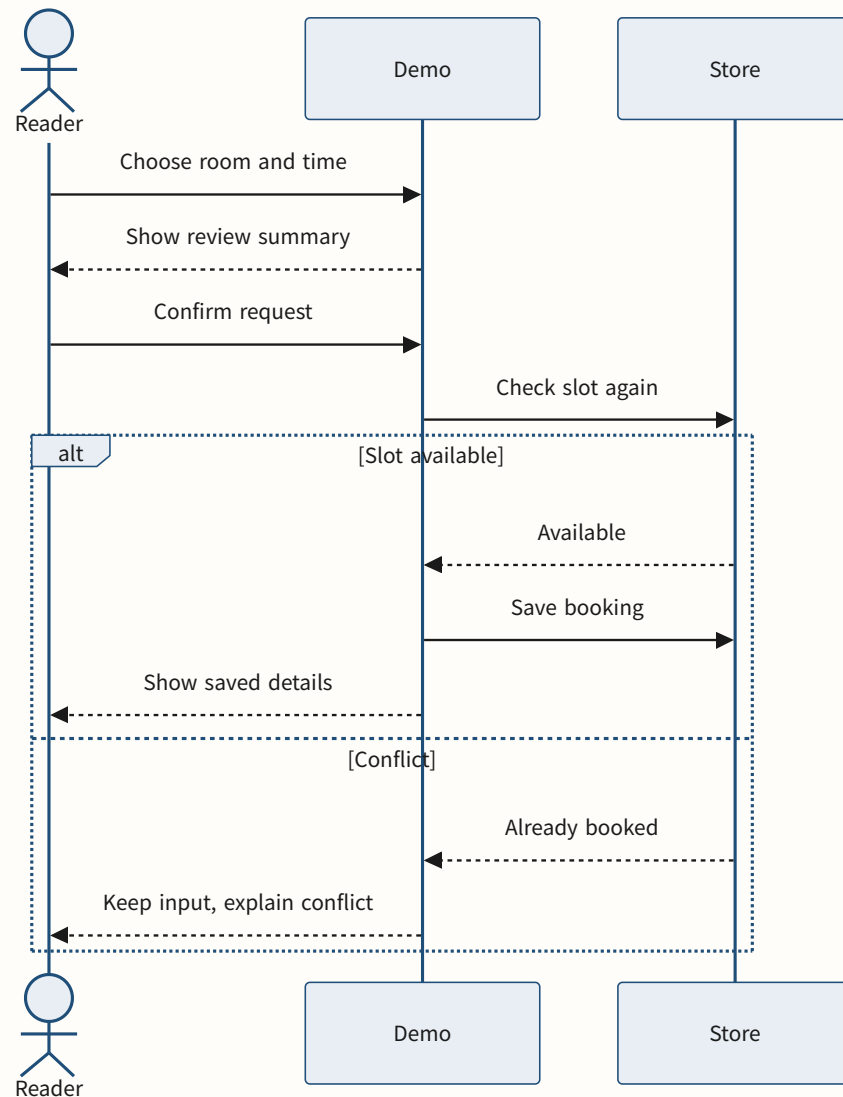


Proposed demo flow

A booking request, step by step

Proposed behavior / fictional design

Sequence diagram



Proposed request sequence

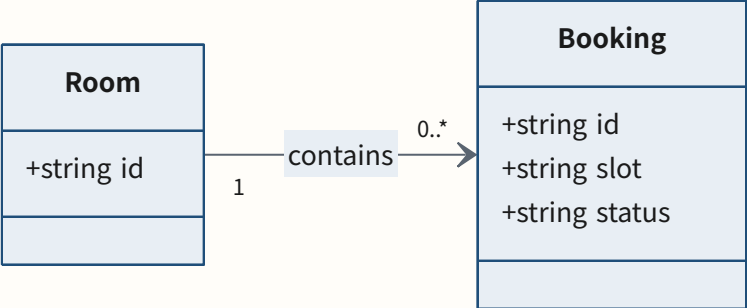
Success and conflict

Keep the room and time visible during review. Check availability again when saving; if there is a conflict, let the reader choose another slot.

Condition	Expected result
Available	Save and show the booking details
Already booked	Explain the conflict and retain input

States and review plan

Class diagram



Fictional data model

Proposed states

State	Trigger	Next step
Draft	Select a room and time	Review the request
Review	Check the summary	Save or return to draft
Saved	Accept a non-conflicting request	Show the saved details
Conflict	Another request uses the slot	Select a different slot

Review questions

- Are errors understandable without relying on color alone?
- Can the demo keep the room and time visible during review?
- What rules would require further work before a real service?

Change log

Version	Change	Reviewer
0.1	Initial fictional design example	To be assigned

Proposed behavior only. No software implementation or operational assurance is claimed.