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10. Project: Hotel Reservation Applic...



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Project Requirements

When building an app, it is common as a developer to be given a specification or for how the app should work and what it should do. This page provides the requirements for the Hotel Reservation App.

Remembering and applying these requirements will be easiest if you notice the requirements in a real-world example, one requirement is that two people should not be able to book the same date. That requirement is a realistic one for any functional reservation app that is not for users crazy!

Note: You don't need to memorize the information here—rather, you'll want to refer to these requirements as you build your application. We suggest that you either print this page or save it as a new tab.

User Scenarios

The application provides four user scenarios:

- **Creating a customer account.** The user needs to first create a customer account before they can create a reservation.
- **Searching for rooms.** The app should allow the user to search for available rooms within a provided checkin and checkout dates. If the application has available rooms within the date range, a list of the corresponding rooms will be displayed to the user for their selection.
- **Booking a room.** Once the user has chosen a room, the app will allow them to confirm the booking and create a reservation.
- **Viewing reservations.** After booking a room, the app allows customers to view their current reservations.

Admin Scenarios

The application provides four administrative scenarios:

- **Displaying all customers accounts.**
- **Viewing all of the rooms in the hotel.**
- **Viewing all of the hotel reservations.**
- **Adding a room to the hotel application.**

Reserving a Room – Requirements

The application allows customers to reserve a room. Here are the specifics:

- **Avoid conflicting reservations.** A single room may only be reserved by a customer for a specific checkin and checkout date range.
- **Search for recommended rooms.** If there are no available rooms for the customer's requested date range, a search will be performed that displays recommended rooms on alternative dates. The recommended room search will add seven days to the original checkin and checkout dates, and if the hotel has any availabilities, and then display the recommended room to the customer.