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|  | Use Case Design for Hotel Room Reservation |
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Hotel Room Availability System

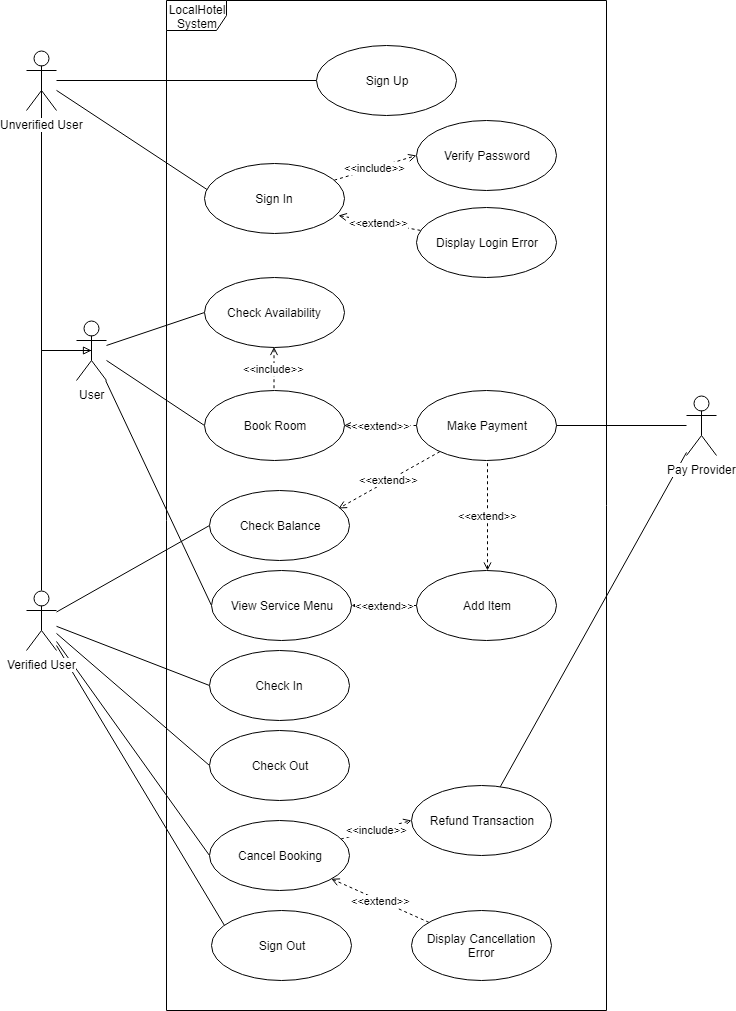
# Overview

For the purposes of demonstration, LocalHotel is an app/website designed for a single hotel which guests may use to streamline their hotel experience, allowing them to autonomously access all features of the hotel. The app may be used to book rooms, check in and out, sign up to the hotel as a repeat customer and even access room service.

For an unregistered user, basic functionality exists such as searching available rooms and booking a room, however the full amount must be paid upon booking. Checking in/out and cancellation must be done through a representative of the hotel. (This system will focus solely on functionality through the app/website however.) All users may enjoy access to the current menu offerings of room service which must be paid on order.

As a registered user, guests may enjoy benefits such as no deposit booking and no fee cancellation. All features of the hotel may be accessed through the app while registered and most requests such as cancellation may be completed entirely in app. Features include checking in and out, which will provide a scannable QR code along with the room number to access your room.

# Use Case Diagram



# Use Cases

## Sign up

**Actor**: Unregistered User

**Trigger**: User attempts to sign up

**Post-conditions:**

•User has successfully made an account.

**Main Success Scenario**

1. User navigates to the sign-up button via app/website.
2. User is prompted to enter details.
3. User fills out the sign-up form.
4. Account is created.
5. User is logged in.

## Sign In

**Actor**: Registered User

**Trigger**: User attempts to sign in

**Post-conditions:**

•User has successfully signed into their account.

**Main Success Scenario**

1. User navigates to the sign-in button via app/website.
2. User is prompted to enter user ID and password.
3. Login information is verified by the system.
4. User is logged in.

**Failure Scenarios**

FS1: Login Verification Failure

1. At step 3, the login verification system fails.
2. The system returns a login error message.
3. The system returns the user to the main scenario at step 2.

## Check Availability

**Actor**: App/Website User

**Trigger**: User navigates to the room search button.

**Post-conditions:**

•User is displayed all available rooms for the desired dates.

**Main Success Scenario**

1. User clicks on the room search button.
2. User is prompted for an arrive and leave date.
3. User fills in form with two dates.
4. The system checks the bookings of all rooms to ensure they are free for the duration desired.
5. The app displays the available rooms.

## Book Room

**Actor**: App/Website User

**Trigger**: User attempts to sign in

**Pre-conditions:**

* User has checked for room availability

**Post-conditions:**

* User has successfully booked a room.

**Main Success Scenario**

1. The user selects the preferred room from the available rooms.
2. The system verifies the users logged in status.
3. A booking is created with the users account details.

**Alternate Scenarios**

AS1: User is not logged in.

1. At step 2, the user is not logged in.
2. The system prompts the user to make a payment for the booking.

## Check Balance

## View Service Menu

## Check In

## Check Out

## Cancel Booking

## Sign Out

# Class Diagram

