

Use cases

ID and name	UC-1: User authentication		
Primary actor	User	Secondary actors	User Authentication System
Description	A Spectator accesses the User Authentication System from either the corporate intranet or external Internet, to log in to his account.		
Trigger	A Spectator indicates that he wants to access his account.		
Preconditions	PRE-1. The login window is open.		
Postconditions	POST-1. User logs in to the system. POST-2. User does not connect to the User Authentication System due to an error.		
Normal flow	1.0 Login 1. User enters the username. (see 1.0.E1) 2. User enters the password. (see 1.0.E2) 3. User presses the "Login". 4. User Authentication System validates the data. 5. User views the entire configuration of the room.		
Alternative flows	1.1 Register 1. User enters the first name. 2. User enters the last name. 3. User enters the email. 4. User enters the username. (see 1.0.E1) 5. User enters the password. (see 1.0.E2) 6. User presses the "Register".		
Exceptions	1.0.E1 Invalid username 1. User Authentication System informs the User that the username is incorrect. 2. If User enter the username correctly, then User Authentication System will continue the normal flow. 1.0.E2 Invalid password 1. User Authentication System informs the User that the password is incorrect. 2. If User enter the password correctly, then User Authentication		

	System will continue the normal flow.
Method-level traces	login.MenuWidget#dateClicked

ID and name	UC-2: Seat reservation		
Primary actor	Spectator	Secondary actors	Booking System For Theater Shows
Description	A Spectator accesses the Booking System For Theater Shows from either the corporate intranet or external Internet, views the entire configuration of the room, select one or more "free" seats and place a reservation.		
Trigger	A Spectator indicates that he wants to reserve a seat.		
Preconditions	PRE-1. Spectator is logged into Booking System For Theater Shows.		
Postconditions	<p>POST-1. Seat reservation is stored in Booking System For Theater Shows with a status "Reserved".</p> <p>POST-2. Performances room occupancy is updated to reflect items in this booking.</p>		
Normal flow	<p>2.0 Booked a single seat</p> <ol style="list-style-type: none"> 1. Spectator asks to view the configuration of the room for a specific day. (see 1.0.E1, 1.0.E2) 2. Booking System for Theater Shows displays the configuration of the room with the available and occupied seats. 3. Spectator selects a seat in the room configuration. 4. Spectator indicates that seat reservation complete. 5. Booking System for Theater Shows displays reserved seat, row, lodge, number, including price and time. (see 1.1) 6. Spectator either confirms seat reservation (continue normal flow) or requests to modify booking (return to step 2). 7. Spectator specifies payment method. 8. Booking System for Theater Shows confirms acceptance of the booking. 9. Booking System for Theater Shows sends spectator an email message confirming the booking details, price and occupancy instructions. 10. Booking System for Theater Shows stores the booking, sends 		

	booked seat information to Configuration System, and updates the room occupancy.
Alternative flows	<p>2.1 Booked multiple seats</p> <ol style="list-style-type: none"> 1. Spectator asks booked another seat. 2. Return to step 1 of normal flow.
Exceptions	<p>2.0.E1 The requested date is today and the current time is after today's show deadline</p> <ol style="list-style-type: none"> 1. Booking System For Theater Shows informs Spectator that it's too late to place a booked for today. 2. If Spectator cancels the seat reservation process, then Booking System For Theater Shows will stop using the case. <p>2.0.E2 No places available</p> <ol style="list-style-type: none"> 1. Booking System for Theater Shows informs the Spectator that there are no seats available for the date of the show. 2. If Spectator cancels the seat reservation process, then Booking System for Theater Shows will stop using the case.
Method-level traces	<p>configurationRoom.MenuWidget#dateClicked configurationRoom.MenuWidget#completeBooking configurationRoom.RoomOccupancy #checkRoom</p>

ID and name	UC-3: Room update		
Primary actor	Spectator	Secondary actors	Booking System For Theater Shows
Description	A Spectator accesses the Booking System For Theater Shows from either the corporate intranet or external Internet, views the entire configuration of the room, select one or more "free" seats and place a reservation. The room configuration is updated after each reservation.		
Trigger	A Spectator indicates that he wants to reserve a seat.		
Preconditions	<p>PRE-1. Spectator is logged into Booking System For Theater Shows.</p> <p>PRE-2. Spectator is registered for the seat payments by deducting the salary.</p>		

Postconditions	<p>POST-1. Seat reservation is stored in Booking System For Theater Shows with a status "Reserved".</p> <p>POST-2. Performances room occupancy is updated to reflect items in this booking.</p>
Normal flow	<p>3.0 Booked a single seat</p> <ol style="list-style-type: none"> 1. Spectator asks to view the configuration of the room for a specific day. (see 1.0.E1, 1.0.E2) 2. Booking System for Theater Shows displays the configuration of the room with the available and occupied seats. 3. Spectator selects a seat in the room configuration. 4. Spectator indicates that seat reservation complete. 5. Booking System for Theater Shows displays reserved seat, row, lodge, number, including price and time. (see 1.1) 6. Spectator either confirms seat reservation (continue normal flow) or requests to modify booking (return to step 2). 7. Booking System for Theater Shows stores the booking: row, lodge and seat number. 8. Booking System for Theater Shows change status in "reserved". (see 3.0 E1) 9. Booking System for Theater Shows updates the room occupancy. (see 3.0 E1)
Alternative flows	<p>3.1 Booked multiple seats</p> <ol style="list-style-type: none"> 3. Spectator asks booked another seat. 4. Return to step 1 of normal flow.
Exceptions	<p>3.0.E1 Error storing reservation</p> <ol style="list-style-type: none"> 1. Booking System for Theater Shows does not update the status of available seats.
Method-level traces	configurationRoom.RoomOccupancy #updateRoom

Iterations planning

1. User authentication

- ✓ Domain classes
- ✓ Database for domain classes
- ✓ Login (or Register)
- ✓ Data validation

2. Seat reservation

- ✓ View show at current date
- ✓ View room configuration
 - Reserved seats
 - Free seats
- ✓ Choose of seat for the show
- ✓ Complete data
- ✓ Payment method
 - By card
 - Complete data
 - In cash

3. Room update

- ✓ Stores the seat to be reserved
- ✓ Change status from “free” in “reserved”
- ✓ Update room configuration
- ✓ Update show (name or hour of the show)
- ✓ Delete show
- ✓ Add show