Use case - REZERVARI LOCURI

O institutie teatrala pune la dispozitia spectatorilor un sistem pentru rezervarea locurilor la spectacole. In fiecare zi, institutia are o singura reprezentatie, la care spectatorii pot rezerva locuri începand de dimineata. După fiecare rezervare, toate terminalele vor afisa situatia actualizata referitor la ocuparea salii si pret. Terminalele puse la dispozitia spectatorilor afiseaza intreaga configuratie a salii, precizând pentru fiecare loc pozitia, numarul, pretul si starea (liber sau rezervat). Folosind un astfel de terminal, spectatorul isi poate introduce datele personale, poate selecta unul sau mai multe locuri si poate declansa un buton pentru rezervarea lor. După fiecare rezervare, toate terminalele vor afisa situatia actualizata referitor la ocuparea salii.

ID and name	UC-01: Reserve Seats	i.	
Primary actor	Spectator	Secondary actors	None
Description	This use case describes the process of a spectator reserving seats for a theatrical performance using the reservation system provided by the theater institution.		
Trigger	Spectator initiates th	e seat reservation pro	cess.
Preconditions	day The reservation sy	ution has a scheduled /stem is operational. accessed a terminal.	performance for the
Postconditions		recorded in the systen coccupancy status is u	
Normal flow	process. 2. The system display hall, showing seat po availability status (from 3. Spectator selects of position, number, and 4. The system verifies 5. If the selected sear	one or more seats by ir d confirms the reserva	ration of the theater prices, and ndicating their ation.

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	6. Spectator enters personal details (name, contact information, etc.).
	7. The system confirms the reservation, displaying a summary of
	the reserved seats and the total cost.
	8. Spectator confirms the reservation.
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	9. The system updates the seat availability status, marking the
	reserved seats as occupied.
	10. All terminals display the updated seat occupancy status.
Alternative flows	- Invalid Seat Selection:
Alternative nows	- If the spectator selects an already reserved seat, the system
	prompts for a different selection.
	- Cancellation:
	- Spectator cancels the reservation process at any point
	before confirmation.
	- The system returns to the initial state, and no seats are
	reserved.
	- System Unavailability:
	- If the reservation system is down, an error message is
	displayed, and the spectator is prompted to try again later.
	displayed, and the spectator is prompted to try again later.
	- Invalid Personal Details:
Exceptions	- If the spectator provides incomplete or invalid personal
	details, the system prompts for correction.
	- The system does not proceed until valid details are entered.
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	- Payment Failure:
	- If a payment step is involved, and the payment fails, the
	system prompts the spectator to try an alternative payment
	method or cancel the reservation.
	- The system does not proceed until a successful payment is
	made.

Descriptions of template fields:

- **ID and name:** Title should be descriptive and should usually begin with a verb, e.g. order, calculate, input, etc. ID can have any format but must be unique among all use cases.
- **Primary actor:** Person that wishes to accomplish a goal through the use of the system. Only a single primary actor per use case.
- **Secondary actors:** Actors that have an interest in the completion of the goal but that do not directly interact with the system.

- **Description:** Concise description of the purpose of the use case.
- Trigger: Condition internal or external to the system that prompts the use case to start.
- **Preconditions:** Conditions that must be true before the use case starts. Each should be labeled with an ID unique to the use case.
- **Postconditions:** Conditions that must be true after the use case ends normally. Each should be labeled with an ID unique to the use case.
- Normal flow: Detailed step-by-step description of the logical flow of the use case. It should
 describe an explicit two way interaction, with the system prompting for input and the actor
 responding accordingly. Each step should be numbered.
- Alternative flows: Flows that achieve the same goal as the normal flow but are expected to be less common or lower priority.
- Exceptions: Conditions that result in the normal flow ending prematurely due to an unrecoverable condition in the system. The condition that causes the flow should be clearly stated, as should be any other decisions that the actor must make in this situation.

ID and name	UC-02: Manage Sea	t Configuration	
Primary actor	Admin	Secondary actors	None
Description	seat configuration	This use case outlines the steps an admin takes to manage the seat configuration for performances in the theater institution's reservation system.	
Trigger	Admin initiates the	seat configuration ma	nagement process.
Preconditions	panel.	id credentials and is lo	
Postconditions		ation is updated in the eare reflected in the reances.	•
Normal flow	Configuration" sect 2. The system displ	the admin panel and nation. ays the current layout tions, seat numbers, a	of the theater hall,

	 Admin selects the desired performance or date for which they want to manage the seat configuration. The system allows the admin to add, remove, or modify seats on the selected date/performance. Admin makes the necessary changes to the seat configuration, specifying positions, numbers, and any other relevant details. The system validates the changes to ensure they conform to the theater's seating constraints. If validation is successful, the admin confirms the changes. The system updates the seat configuration for the selected
	date/performance. 9. All terminals reflect the updated seat configuration for future reservations.
Alternative flows	 Undo Changes: If the admin wants to revert the changes made during the current session, they can undo the modifications before confirming. Cancel Configuration:
Exceptions	 Invalid Configuration: If the proposed seat configuration violates constraints (e.g., exceeds the maximum capacity of the theater), the system alerts the admin and prevents the changes until valid adjustments are made. System Unavailability:

Extra step: Traceability

For this extra step, you will add traceability information for each use case by adding a new field to the template:

Method-level traces	<fully.qualified.classname>#<methodname></methodname></fully.qualified.classname>	

Any method that implements the functionality described in the normal flow, alternative flow or exceptions should be included in this field. This means that the method that is initially executed and any methods of any classes that the work is delegated to should be included.

Examples for previous use cases:

UC-1:

Method-level traces	my.company.ordering.MenuWidget#dateClicked my.company.ordering.MenuWidget#completeOrder my.company.ordering.InventoryInterface#checkInventory
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UC-5:

my.company.payroll.PayrollInterface#checkEligibility my.company.payroll.RegistrationForm#confirm