## **Use case Problema 6: rezervari locuri la spectacol**

Template:

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| ID and name |  | | |
| Primary actor |  | Secondary actors |  |
| Description |  | | |
| Trigger |  | | |
| Preconditions |  | | |
| Postconditions |  | | |
| Normal flow |  | | |
| Alternative flows |  | | |
| Exceptions |  | | |

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.

**Pentru problema 6:**

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| ID and name | **UC-1**: Show room configuration | | |
| Primary actor | Spectator / client | Secondary actors |  |
| Description | A **spectator** accesses the reservation system through an access terminal (on-site through intranet) and visualizes the room configuration. | | |
| Trigger | A **spectator** indicates the wish to show the room configuration. | | |
| Preconditions | PRE-1. Current time is before the start of the show (but in that morning)  PRE-2. The **Spectator** can access a terminal. | | |
| Postconditions | POST-1. The **Spectator** the current state of the room configuration. | | |
| Normal flow | 1. **Show room configuration** 2. **The Spectator** accesses SR to see the room. (1.0.E1, 1.0.E2) 3. **SR** shows the current state of the room. | | |
| Alternative flows | - | | |
| Exceptions | **1.0.E1 SR is not currently working**  1. SR shows standard error message.  **1.0.E2 The show has already begun / has ended (cannot show the current state of the room)**  1. **SR** informs the **Spectator** that they cannot see the room anymore for that day. | | |

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| ID and name | **UC-2**: Reserve seat(s) | | |
| Primary actor | Spectator / client | Secondary actors |  |
| Description | A **spectator** who has accessed the system (intranet) inputs personal data into the system, after which they select one/more seats and action a button to confirm the reservation. | | |
| Trigger | Un **spectator** with access to SR indicates the wish to reserve one or more seats. | | |
| Preconditions | PRE-1. **Spectator** has completed **UC-1**. (has accessed the system and has shown the current state and configuration of the room)  PRE-2. There are some available seats left for the show. | | |
| Postconditions | POST-1. **Spectator** has successfully reserved one or more seats.  POST-2. **SR** has registered the reservation and has updated the current state, both internally and visually (on the screen). | | |
| Normal flow | 1. **Seat reservation** 2. **Spectator** accesses the window for reservation. 3. **SR** shows the reservation window 4. **Spectator** writes personal data to identify the reservation (2.0.E1) 5. **SR** confirms personal data and enables the spectator to choose seats. 6. **Spectator** selects 1 seat (2.0.E2) 7. **SR** updates the window to reflect the choice. 8. **Spectator** presses reservation button, or alternative flow **1.1**. 9. **SR** shows success message. (2.0.E3) | | |
| Alternative flows | **1.1 Rezervare locuri multiple**   1. **Spectator** selects multiple seats. 2. Repeat steps 1.0.3-4 | | |
| Exceptions | **2.0.E1 Invalid input data**  1. **SR** shows error message. Go back to 1.0.1  **2.0.E2 The chosen seat is already reserved**  1. **SR** shows specific error message. Go to 1.0.3  **2.0.E3 Final verification: The seat has ben reserved in the mean-time (race-conditions)**  1. **SR** shows corresponding error message. Go back to 1.0.3 | | |

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| ID and name | **UC-3:** Authenticate / login (admin) | | |
| Primary actor | Administrator | Secondary actors |  |
| Description | An administrator logs into the system | | |
| Trigger | An administrator declares the intention to log in. | | |
| Preconditions | PRE-1. The administrator has access to a terminal (on-site or remote) | | |
| Postconditions | POST-1. The administrator has access into the system.  POST-2. The system has verified the administrator’s credentials. | | |
| Normal flow | 1. **Administrator login** 2. **The administrator** accesses SR in order to log in 3. **SR** shows the login window 4. **The administrator** inputs their usename and password , after which they press the login button. (1.0.E1) 5. **SR** confirms authentication. | | |
| Alternative flows | - | | |
| Exceptions | **1.0.E1. SR** shows an error message “invalid credentials”. Go back to **1.0.3** | | |

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| ID and name | **UC-4**: Room configuration | | |
| Primary actor | **Administrator** | Secondary actors |  |
| Description | An administrator creates a room configuration | | |
| Trigger | An administrator indicates the wish to create a room configuration | | |
| Preconditions | PRE-1. The administrator is authenticated after **UC-3**. | | |
| Postconditions | POST-1. The new room configuration is created & loaded. | | |
| Normal flow | 1. **Room configuration creation** 2. **The administrator** accesses SR in order to create a new room configuration 3. SR shows the corresponding room configuration creation menu 4. The administrator creates a seat. 5. SR shows the updated state of the configuration 6. The administrator presses the finalize button, or alternative flow **1.1** 7. **SR** confirms the creation of the new configuration | | |
| Alternative flows | **1.1 Multiple seats creation 1.** Go back to 1.0.3 | | |
| Exceptions |  | | |

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| ID and name | **UC-5**: Schedule show | | |
| Primary actor | **Administrator** | Secondary actors |  |
| Description | An administrator schedules a new show | | |
| Trigger | An administrator indicates the wish to schedule a new show | | |
| Preconditions | PRE-1. The administrator is authenticated after **UC-3**.  PRE-2. There is at least 1 room configuration (**UC-4**). | | |
| Postconditions | POST-1. The new show is scheduled. | | |
| Normal flow | 1. **Room configuration creation** 2. **The administrator** accesses SR in order to schedule a new show 3. SR shows the corresponding show scheduling window 4. The administrator introduces the date and the configuration for the show 5. SR shows the updated state of the window 6. The administrator presses the finalize button (1.0.E1) 7. **SR** confirms the show scheduling. | | |
| Alternative flows | **-** | | |
| Exceptions | **1.0.E1** A show already exists for that date. Go back to **1.0.3** | | |