**The Medallion Theater**

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| Scenario Name | The March 22 performance |
| Participating actor instances | Lewis: Patron  Kevin: Admin |
| Flow of events | When the Kevin adds a performance, a lot of Patrons will be notified about the event through an email. One of them was Lewis. Lewis receives information about the upcoming performance on Monday, March 22, 2024, through an email notification from the Medallion Theatre. He opens the email & check the notification, He wants to attend the performance and clicks on the provided link to access the online ticket sales system. The system's login page is displayed, prompting the patron to enter their login credentials. Lewis enters their registered email address and password and clicks on the "Login" button. The system verifies the Lewis's credentials and grants access to his account. After logging in successfully, He is redirected to the notified performance along with its details, such as the production name, showtime & date, and available seats with their corresponding prices. Then He carefully selects a preferred seat from the available options. Upon selecting the seat, the system updates the seat availability in real-time, ensuring that no other patron can select the same seat simultaneously. The system prompts the patron to confirm the seat selection then clicks on the "Make Reservation" button. The system generates a reservation confirmation page, displaying the seat details, performance information, and the total ticket price. The patron reviews the reservation details and proceeds to the payment process. The system provides various secure payment options (credit card, PayPal) for the Lewis to choose from. He selects the preferred payment method and enters the necessary payment details. The system processes the payment transaction securely and generates an electronic ticket & will be sent for Lewis. After the ticket purchase process is successfully completed, the system will generate a report about the user support & also the necessary data related to the tickets sold. |

**Use Case Descriptions**

1. Use Case: Register/Login

- Participating Actors: Patron, Admin

- Entry Condition: A user wants to access the system.

- Flow of Events: The user registers or logs into the system.

- Exit Condition: The user is successfully logged into the system.

- Quality Requirements: The system should ensure the security and confidentiality of user information.

2. Use Case: Browse Performance

- Participating Actors: Patron

- Entry Condition: A patron wants to view performances.

- Flow of Events: The patron browses the list of performances, productions.

- Exit Condition: The patron successfully views the performances.

- Quality Requirements: The system should provide up-to-date and accurate performance information.

3. Use Case: Make Reservation

- Participating Actors: Patron

- Entry Condition: A patron wants to reserve a seat for a performance.

- Flow of Events: The system identifies the selected performance and manages seat selection for the performance.

- Exit Condition: The patron successfully reserves a seat.

- Quality Requirements: The system should provide real-time seat availability information.

4. Use Case: Cancel Reservation

- Participating Actors: Patron

- Entry Condition: A patron has a reservation and wants to cancel it.

- Flow of Events: The patron requests to cancel the reservation. The system then updates the reservation status and seat availability.

- Exit Condition: The patron’s reservation is successfully cancelled.

- Quality Requirements: The system should ensure a smooth cancellation process and update the seat availability in real-time.

5. Use Case: Manage Seat

- Participating Actors: Patron

- Entry Condition: A patron has identified a performance and wants to select a seat.

- Flow of Events: The patron views the available seats for the selected performance and selects one. The system then updates the seat availability.

- Exit Condition: The patron’s seat selection is successfully recorded in the system.

- Quality Requirements: The system should provide real-time seat availability information.

6. Use Case: Purchase Ticket

- Participating Actors: Patron

- Entry Condition: A patron wants to purchase a ticket.

- Flow of Events: The patron completes the ticket purchase process.

- Exit Condition: The patron successfully purchases a ticket.

- Quality Requirements: The system should ensure a secure and smooth transaction process.

7. Use Case: Generate Report

- Participating Actors: Admin

- Entry Condition: After succesful ticket purchasal the system wants to generate a report.

- Flow of Events: The System generates a report of tickets sold , seats occupied by the patron & available seats for a particular performance.

- Exit Condition: The report is successfully generated.

- Quality Requirements: The system should ensure the accuracy and completeness of the report information.

8. Use Case: Manage Production & Performance

- Participating Actors: Admin

- Entry Condition: An admin wants to manage productions and performances.

- Flow of Events: The admin adds, updates, or deletes production and performance information. also check which users should be notified by the new or updated production

- Exit Condition: The production and performance information is successfully managed.

- Quality Requirements: The system should ensure the accuracy and completeness of the production and performance information.

9. Use Case: Add Production & Performance

- Participating Actors: Admin

- Entry Condition: An admin wants to add a new production or performance.

- Flow of Events: The admin inputs the details of the new production or performance. The system then adds the new production or performance to the database.

- Exit Condition: The new production or performance is successfully added to the system.

- Quality Requirements: The system should validate the input data to ensure it’s correct and complete.

10. Use Case: Modify Production & Performance

- Participating Actors: Admin

- Entry Condition: An admin wants to edit an existing production or performance.

- Flow of Events: The admin selects the production or performance to edit, makes the necessary changes, and saves them. The system then updates the production or performance in the database.

- Exit Condition: The changes to the production or performance are successfully saved in the system.

- Quality Requirements: The system should validate the input data to ensure it’s correct and complete.

11. Use Case: Cancel Production & Performance

- Participating Actors: Admin

- Entry Condition: An admin wants to cancel an existing production or performance.

- Flow of Events: The admin selects the production or performance to cancel. The system then updates the status of the production or performance in the database.

- Exit Condition: The production or performance is successfully cancelled in the system.

- Quality Requirements: The system should ensure a smooth cancellation process and update the production or performance status in real-time.

12. Use Case: Notify Patron

- Participating Actors: Admin

- Entry Condition: An admin wants to notify users about updates or upcoming events.

- Flow of Events: The admin sends notifications to Patron.

- Exit Condition: The notifications are successfully sent.

- Quality Requirements: The system should ensure the notifications are sent to the correct users and contain accurate information.