**Cinema and Theatre System**

**By:Amr Ayman, Yousef Wael, Seifallah Mohamed**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID** | **Description** | **Type** | **Subtype** | **Priority** |
| R01 | The system shall allow users to register with a unique username and password. | Functional | User Management | Must Have |
| R02 | The system shall authenticate users upon login. | Functional | User Management | Must Have |
| R03 | Administrators shall be able to add, update, or remove movie details, including title, genre, language, duration, and showtimes. | Functional | Movie Management | Must Have |
| R04 | The system shall allow scheduling of movies across different screens and times. | Functional | Scheduling | Must Have |
| R05 | Customers shall be able to view real-time seat availability and select preferred seats during booking. | Functional | Booking Management | Must Have |
| R06 | The system shall enable customers to book tickets for selected movies and showtimes. | Functional | Booking Management | Must Have |
| R07 | The system shall support multiple payment methods, such as credit/debit cards and digital wallets. | Functional | Payment Processing | Must Have |
| R08 | Upon successful booking, the system shall generate electronic tickets with unique identifiers and send confirmation via email or SMS. | Functional | Booking Confirmation | Must Have |
| R09 | Customers shall be able to cancel bookings within a specified time frame, and the system shall process refunds according to the cancellation policy. | Functional | Booking Management | Should Have |
| R10 | The system shall display available snacks and beverages, allowing customers to add them to their booking. | Functional | Concession Management | Should Have |
| R11 | Administrators shall be able to generate reports on ticket and concession sales over specified periods. | Functional | Reporting | Must Have |
| R12 | The system shall allow customers to provide feedback or rate their experience after attending a show. | Functional | Feedback Management | Could Have |
| R13 | Administrators shall be able to create and manage promotional offers and discounts applicable during the booking process. | Functional | Promotions Management | Should Have |
| R14 | The system shall send notifications to customers about upcoming shows, special events, or promotions. | Functional | Notification Management | Could Have |
| R15 | Customers shall be able to view and update their personal information and booking history. | Functional | User Profile Management | Must Have |
| R16 | The system shall handle up to 500 concurrent users without performance degradation. | Non-Functional | Performance | Must Have |
| R17 | The system shall use SSL encryption for all transactions involving confidential customer information. | Non-Functional | Security | Must Have |
| R18 | User passwords shall be stored using secure hashing algorithms. | Non-Functional | Security | Must Have |
| R19 | The system shall be available 99.9% of the time, excluding scheduled maintenance periods. | Non-Functional | Availability | Must Have |
| R20 | The system shall perform daily backups of all critical data and support data recovery procedures to prevent data loss. | Non-Functional | Backup and Recovery | Should Have |