**Use Cases**

| ID | Use Case 1 |
| --- | --- |
| Name | Customer buys a ticket |
| Actor | Customer, Attendant, Ticket |
| Description | The customer uses the ticket system to pay for a ticket of their recommendation |
| Pre-Condition | Customer has enough money to pay for a ticket |
| Event Flow | * Attendant displays all movies, their time slots, and available seats to the Customer * Customer selects their recommended suggestions for watching a movie * Attendant checks if a suitable ticket can be found * Attendant finds a ticket and asks Customer to pay for the ticket * Customer pays for the ticket * Attendant produces a ticket for the Customer |
| Extension Points |  |
| Triggers |  |
| Post-condition | Customer obtains a ticket |

## 

| ID | Use Case 2 |
| --- | --- |
| Name | Manager edits Movie showcasing info |
| Actor | Manager, Movie, Customer, Ticket |
| Description | Manager wants to modify Movie info like its name, director, or time slots |
| Pre-Condition | A Movie must already exist in the database |
| Event Flow | * All movies and their info, including their time slots are shown * Manager attempts to change info for one movie * If said info is about time slots, Manager checks if any tickets are already bought for the movie time slot they’re changing * If tickets were sold for that time slot, Manager warns Customer about the change and asks for a possibility to refund the Customer * Customer can either refund their ticket or keep their ticket with the new info * Movie info is updated |
| Extension Points |  |
| Triggers |  |
| Post-condition | Movie is updated with new info |

| ID | Use Case 3 |
| --- | --- |
| Name | Manager adds a Movie |
| Actor | Manager, Movie |
| Description | Manager creates a new Movie to be shown into theaters |

## 

| ID | Use Case 4 |
| --- | --- |
| Name | Theater shows Movies |
| Actor | Theater, Movie |
| Description | A theater shows all movies that are running or set to shot |

**Non-Functional Requirements**

| ID | Non-Functional Requirement 1 |
| --- | --- |
| Name | Operating System Support |
| Type | Implementation |
| Criteria | The system will be compatible with all operating system that have the Java SDK and JDK installed |
| Test | System will be tested on Mac, Windows and Linux operating systems with the required java frameworks to verify their compatibility with those systems |

**Domain Objects**

1. Person
2. Employee
3. Customer
4. Theater
5. Transaction
6. Movie
7. Ticket
8. Showtime