**Name: Daniel Saneel Dennis**

**Course: CS 151**

**Professor: Suneuy Kim**

**Documentation Hard Copy – Project1: Theater Reservation System**

**Use Cases:**

1. Sign-Up

|  |  |  |
| --- | --- | --- |
| Step | User Action | System Response |
| 1. | Enters U for Signup |  |
| 2. |  | Reservation System Prompts ID & Password |
| 3. | User Enters Id and Password |  |
| 4. |  | Reservation System checks if Id is unique and Confirms Signup and creates user.  It creates user instance and also stores it to the list of users |
| 5. |  | Goes Back to Main Menu and prompts the user to sign in |

1. Make Reservation

|  |  |  |
| --- | --- | --- |
| Step | User Action | System Response |
| 1. | Enters R to Reserve |  |
| 2. |  | System Asks for Date |
| 3. | User Enters the Desired Date |  |
| 4. |  | System Asks for Time |
| 5. | User Enters the Desired Time |  |
| 6. |  | System prints the list of available seats for the particular show |
| 7. | User inputs list of seats, one after other |  |
| 8. |  | System Reserves the list of seats for the user and marks them unavailable for the system. |

1. Cancel Booking

|  |  |  |
| --- | --- | --- |
| Step | User Action | System Response |
| 1. | Enter C to Cancel |  |
| 2. |  | Prompts for the Date of the show |
| 3. | Enter the Date |  |
| 4. |  | Prompts for the time of the show |
| 5. | Enters the time |  |
| 6. |  | Prints the List of booked seats for the show (If Any),  Prints Error Message if no seats booked  Prompts the user to input the list of seats to cancel |
| 7. | Enters the list of seats to cancel one after the other |  |
| 8. |  | Removes the Seats From the User’s bookings and makes it available to the system |

1. Sign-In

|  |  |  |
| --- | --- | --- |
| Step | User Response | System Response |
| 1. | Enters I to sign-in |  |
| 2. |  | Prompts for user Id and password |
| 3. | User enters id and password |  |
| 4. |  | Verifies and validates user id and password,  If validated, System prompts the Next Screen |

1. Use Case: Exit

|  |  |  |
| --- | --- | --- |
| Step | User Response | System Response |
| 1. | User Enter E to exit the system |  |
| 2. |  | System creates new file reservations.txt if it does not already exist. |
| 3. |  | System, writes down all the reservation information on the file,  By Every User and then by the date and time,  It stores all the seats reserved |

**Sequence Diagram: Make a Reservation**

A screenshot of a cell phone

Description automatically generated

Runtime Screen Shots: A screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generatedA screenshot of a cell phone

Description automatically generatedA screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generatedA screenshot of a cell phone

Description automatically generatedA screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generated