**Test Plan – OOP Assignment**

Option Selection Menu

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | 1 | **List All Movies** | **List All Movies** | Yes |
| 2 | 2 | **Add a Movie Screening session**  **Selecting Cinema Hall**  **Selecting a Movie**  **Selecting Screening Type**  **Entering Screening Date and Time** | **Add a Movie Screening session**  **Selecting Cinema Hall**  **Selecting a Movie**  **Selecting Screening Type**  **Entering Screening Date and Time** | **Yes** |
| 3 | 3 | **List Movie Screenings**  **Selecting a Movie** | **List Movie Screenings**  **Selecting a Movie** | Yes |
| 4 | 4 | **Delete a movie screening session** | **Delete a movie screening session** | Yes |
| 5 | 5 | **Order Movie Ticket/s**  **Selecting a Movie**  **Selecting a Movie Session**  **Enter the number of tickets to be purchased**  **Check if the ticket holder met the age requirement of the movie**  **Type of ticket to purchase**  **Enter Level of Study (Student)**  **Enter Year of Birth (Senior)**  **Check if they are willing to purchase Popcorn for $3 (Adult)** | **Order Movie Ticket/s**  **Selecting a Movie**  **Selecting a Movie Session**  **Enter the number of tickets to be purchased**  **Check if the ticket holder met the age requirement of the movie**  **Type of ticket to purchase**  **Enter Level of Study (Student)**  **Enter Year of Birth (Senior)**  **Check if they are willing to purchase Popcorn for $3 (Adult)** | Yes |
| 6 | 0 | **Exit** | **Exit** | Yes |
| 7 | 10 | **Invalid Option, select an option from 0-8** | **Invalid Option, select an option from 0-8** | Yes |

Option 2 – Add a movie screening session – Selecting cinema hall

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test** **Case** | **Test** **Data** | **Expected** **Result** | **Actual Result** | **Result as expected?** |
| 1 | 1 | **Add a Movie Screening: Singa North, Hall No 1.** | **Add a Movie Screening: Singa North, Hall No 1.** | Yes |
| 2 | 2 | **Add a Movie Screening: Singa North, Hall No 2.** | **Add a Movie Screening: Singa North, Hall No 2.** | Yes |
| 3 | 3 | **Add a Movie Screening: Singa West, Hall No 1.** | **Add a Movie Screening: Singa West, Hall No 1.** | Yes |
| 4 | 4 | **Add a Movie Screening: Singa East, Hall No 1.** | **Add a Movie Screening: Singa East, Hall No 1.** | Yes |
| 5 | 5 | **Add a Movie Screening: Singa Central, Hall No 1.** | **Add a Movie Screening: Singa Central, Hall No 1.** | Yes |
| 6 | 6 | **Add a Movie Screening: Singa Central, Hall No 2.** | **Add a Movie Screening: Singa Central, Hall No 2.** | Yes |
| 7 | 2!@ | **You have entered an invalid input containing alphabets and/or symbols** | **You have entered an invalid input containing alphabets and/or symbols** | Yes |
| 8 | 12 | **You have entered an invalid Cinema Hall number** | **You have entered an invalid Cinema Hall number** | Yes |

Option 2 – Add a movie screening session – Selecting a movie

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | 1 | **Selected “The Great Wall”** | **Selected “The Great Wall”** | Yes |
| 2 | 2 | **Selected “Rogue One: A Star Wars Story”** | **Selected “Rogue One: A Star Wars Story”** | Yes |
| 3 | 3 | **Selected “Office Christmas Party”** | **Selected “Office Christmas Party”** | Yes |
| 4 | 4 | **Selected “Power Rangers”** | **Selected “Power Rangers”** | Yes |
| 5 | ? | **You have entered an invalid input containing alphabets and/or symbols** | **You have entered an invalid input containing alphabets and/or symbols** | Yes |
| 6 | 12 | **You have entered an invalid Movie number** | **You have entered an invalid Movie number** | Yes |

Option 2 – Add a movie screening session – Selecting screening type

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | 2D | **Selected 2D as screening type** | **Selected 2D as screening type** | Yes |
| 2 | 3D | **Selected 3D as screening type** | **Selected 3D as screening type** | Yes |
| 3 | ? | **You have entered an invalid Screening Type** | **You have entered an invalid Screening Type** | Yes |
| 4 | 12 | **You have entered an invalid Screening Type** | **You have entered an invalid Screening Type** | Yes |

Option 2 – Add a movie screening session – Entering screening date and time

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | 12/12/2016 18:00 | **Movie screening successfully created** | **Movie screening successfully created** | Yes |
| 2 | 12/01/2017 21:00 | **Movie screening successfully created** | **Movie screening successfully created** | Yes |
| 3 | 12/123/129 | **You have entered an invalid DateTime** | **You have entered an invalid DateTime** | Yes |
| 4 | 12/01/2017 26:00 | **You have entered an invalid DateTime** | **You have entered an invalid DateTime** | Yes |

Option 3 – List Movie Screenings

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | 1 | **List Movie Screenings of The Great Wall** | **List Movie Screenings of The Great Wall** | Yes |
| 2 | 2 | **List Movie Screenings of Rogue One: A Star Wars Story** | **List Movie Screenings of Rogue One: A Star Wars Story** | Yes |
| 3 | 3 | **List Movie Screenings of Office Christmas Party** | **List Movie Screenings of Office Christmas Party** | Yes |
| 4 | 4 | **List Movie Screenings of Power Rangers** | **List Movie Screenings of Power Rangers** | Yes |
| 5 | ? | **You have entered an invalid input containing alphabets and/or symbols** | **You have entered an invalid input containing alphabets and/or symbols** | Yes |
| 6 | 12 | **You have entered an invalid movie number. Please enter a number from 1 – 4** | **You have entered an invalid movie number. Please enter a number from 1 – 4** | Yes |

Option 4 – Delete a movie screening session

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | 1001 | **Screening deleted** | **Screening deleted** | Yes |
| 2 | 1002 | **Screening deleted** | **Screening deleted** | Yes |
| 3 | 1003 | **Screening deleted** | **Screening deleted** | Yes |
| 4 | 1 | **Invalid Screening number chosen** | **Invalid Screening number chosen** | Yes |
| 5 | ? | **You have entered an invalid input containing alphabets and/or symbols** | **You have entered an invalid input containing alphabets and/or symbols** | Yes |

Option 5 – Order Movie Ticket/s – Selecting a Movie

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | 1 | **Selected “The Great Wall”** | **Selected “The Great Wall”** | Yes |
| 2 | 2 | **Selected “Rogue One: A Star Wars Story”** | **Selected “Rogue One: A Star Wars Story”** | Yes |
| 3 | 3 | **Selected “Office Christmas Party”** | **Selected “Office Christmas Party”** | Yes |
| 4 | 4 | **Selected “Power Rangers”** | **Selected “Power Rangers”** | Yes |
| 5 | 12 | **Incorrect Input** | **Incorrect Input** | Yes |
| 6 | ? | **You have entered an invalid input containing alphabets and/or symbols** | **You have entered an invalid input containing alphabets and/or symbols** |  |

Option 5 – Order Movie Ticket/s – Selecting a session

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1001 | 1001 | **Selected Singa West as the location** | **Selected “The Great Wall”** | Yes |
| 2 | 2 | **You have entered an invalid screening number** | **You have entered an invalid screening number** | Yes |
| 3 | ? | **You have entered an invalid input containing alphabets and/or symbols** | **You have entered an invalid input containing alphabets and/or symbols** | Yes |

Option 5 – Order Movie Ticket/s – Number of tickets to be purchased

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | 1 | **Ordered One Ticket** | **Ordered One Ticket** | Yes |
| 2 | 2 | **Ordered Two Tickets** | **Ordered Two Tickets** | Yes |
| 3 | ? | **You have entered an invalid input containing alphabets and/or symbols** | **You have entered an invalid input containing alphabets and/or symbols** | Yes |

Option 5 – Order Movie Ticket/s - Check if the ticket holder met the age requirement of the movie

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | Y | **Yes** | **Yes** | Yes |
| 2 | N | **No** | **No** | Yes |
| 3 | ? | **Invalid input. Please enter only Y or N.** | **Invalid input. Please enter only Y or N.** | Yes |
| 4 | 12 | **Invalid input. Please enter only Y or N.** | **Invalid input. Please enter only Y or N.** | Yes |

Option 5 – Order Movie Ticket/s – Type of ticket to purchase

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | Student | **Selected Student Ticket** | **Selected Student Ticket** | Yes |
| 2 | Senior | **Selected Senior Ticket** | **Selected Senior Ticket** | Yes |
| 3 | Adult | **Selected Adult Ticket** | **Selected Adult Ticket** | Yes |
| 4 | ? | **Invalid type of ticket entered. Please choose from Student, Senior or Adult** | **Invalid type of ticket entered. Please choose from Student, Senior or Adult** | Yes |
| 5 | 2 | **Invalid type of ticket entered. Please choose from Student, Senior or Adult** | **Invalid type of ticket entered. Please choose from Student, Senior or Adult** | Yes |

Option 5 – Order Movie Ticket/s – Enter Level of Study (Student)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | Primary | **Selected “Primary” as Level of Study** | **Selected “Primary” as Level of Study** | Yes |
| 2 | Secondary | **Selected “Secondary” as Level of Study** | **Selected “Secondary” as Level of Study** | Yes |
| 3 | Tertiary | **Selected “Tertiary” as Level of Study** | **Selected “Tertiary” as Level of Study** | Yes |
| 4 | 12 | **You have entered an invalid Level of Study** | **You have entered an invalid Level of Study** | Yes |
| 5 | ? | **You have entered an invalid Level of Study** | **You have entered an invalid Level of Study** | Yes |

Option 5 – Order Movie Ticket/s – Enter Year of Birth (Senior)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | 1955 | **Ticket ordered successfully** | **Ticket ordered successfully** | Yes |
| 2 | 1999 | **Not qualified for senior citizen ticket!** | **Not qualified for senior citizen ticket!** | Yes |
| 3 | 1962 | **Ticket ordered successfully** | **Ticket ordered successfully** | Yes |

Option 5 – Order Movie Ticket/s – Check if they are willing to purchase Popcorn for $3 (Adult)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | Y | **Yes** | **Yes** | Yes |
| 2 | N | **No** | **No** | Yes |
| 3 | ? | **Invalid Input. Please enter only Y or N.** | **Invalid Input. Please enter only Y or N** | Yes |
| 4 | 12 | **Invalid Input. Please enter only Y or N** | **Invalid Input. Please enter only Y or N** | Yes |

Option 6 – Add a movie rating – Entering movie number

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | 1 | **Selected “The Great Wall” to add a movie rating** | **Selected “The Great Wall” to add a movie rating** | Yes |
| 2 | 2 | **Selected “Rogue One: A Star Wars Story” to add a movie rating** | **Selected “Rogue One: A Star Wars Story” to add a movie rating** | Yes |
| 3 | 3 | **Selected “Office Christmas Party” to add a movie rating** | **Selected “Office Christmas Party” to add a movie rating** | Yes |
| 4 | 4 | **Selected “Power Rangers” to add a movie rating** | **Selected “Power Rangers” to add a movie rating** | Yes |
| 5 | ? | **You have entered an invalid input containing alphabets and/or symbols** | **You have entered an invalid input containing alphabets and/or symbols** | Yes |
| 6 | 12 | **You have entered an invalid movie number. Please enter a number from 1 – 4** | **You have entered an invalid movie number. Please enter a number from 1 – 4** | Yes |

Option 6 – Add a movie rating – Entering a rating

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | 1 | **Entered movie rating as “1” for the selected movie** | **Entered movie rating as “1” for the selected movie** | Yes |
| 2 | 2 | **Entered movie rating as “2” for the selected movie** | **Entered movie rating as “2” for the selected movie** | Yes |
| 3 | 3 | **Entered movie rating as “3” for the selected movie** | **Entered movie rating as “3” for the selected movie** | Yes |
| 4 | 4 | **Entered movie rating as “4” for the selected movie** | **Entered movie rating as “4” for the selected movie** | Yes |
| 5 | 5 | **Entered movie rating as “5” for the selected movie** | **Entered movie rating as “5” for the selected movie** | Yes |
| 6 | 12 | **You have entered an invalid rating. Please choose from 0 – 5 [0 = Very bad; 5 = Very good]** | **You have entered an invalid rating. Please choose from 0 – 5 [0 = Very bad; 5 = Very good]** | Yes |
| 7 | ? | **You have entered an invalid input containing alphabets and/or symbols** | **You have entered an invalid input containing alphabets and/or symbols** | Yes |

Option 6 – Add a movie rating – Entering of comments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | Test | **“Test” as the comment entered for the selected movie** | **“Test” as the comment entered for the selected movie** | Yes |
| 2 | Hi | **“Hi” as the comment entered for the selected movie** | **“Hi” as the comment entered for the selected movie** | Yes |

Option 7 – View movie ratings and comments – Select a movie

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | 1 | **Selected “The Great Wall” to view movie ratings and comments** | **Selected “The Great Wall” to view movie ratings and comments** | Yes |
| 2 | 2 | **Selected “Rogue One: A Star Wars Story” to view movie ratings and comments** | **Selected “Rogue One: A Star Wars Story” to view movie ratings and comments** | Yes |
| 3 | 3 | **Selected “Office Christmas Party” to view movie ratings and comments** | **Selected “Office Christmas Party” to view movie ratings and comments** | Yes |
| 4 | 4 | **Selected “Power Rangers” to view movie ratings and comments** | **Selected “Power Rangers” to view movie ratings and comments** | Yes |
| 5 | ? | **You have entered an invalid input containing alphabets and/or symbols** | **You have entered an invalid input containing alphabets and/or symbols** | Yes |
| 6 | 12 | **You have entered an invalid movie number. Please enter a number from 1 – 4** | **You have entered an invalid movie number. Please enter a number from 1 – 4** | Yes |

Option 8 – Recommend movies – Recommending movies based on user’s preferred criteria

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | 1 | **Display movies based on movie rating** | **Display movies based on movie rating** | Yes |
| 2 | 2 | **Recommend users movies based on Genre** | **Recommend users movies based on Genre** | Yes |
| 3 | 3 | **Recommend users movies based on Classification** | **Recommend users movies based on Classification** | Yes |
| 4 | ? | **You have entered an invalid input containing alphabets and/or symbols** | **You have entered an invalid input containing alphabets and/or symbols** | Yes |
| 5 | 12 | **Invalid Option, select an option from 0 – 3** | **Invalid Option, select an option from 0 - 3** | Yes |

Option 8 – Recommend movies – Based on user-preferred Genre

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | Action | **Display movies with “Action” as their genre** | **Display movies with “Action” as their genre** | Yes |
| 2 | Adventure | **Display movies with “Adventure” as their genre** | **Display movies with “Adventure” as their genre** | Yes |
| 3 | Comedy | **Display movies with “Comedy” as their genre** | **Display movies with “Comedy” as their genre** | Yes |
| 4 | Fantasy | **Display movies with “Fantasy” as their genre** | **Display movies with “Fantasy” as their genre** | Yes |
| 5 | Thriller | **Display movies with “Thriller” as their genre** | **Display movies with “Thriller” as their genre** | Yes |
| 6 | ? | **You have entered an invalid genre. Please choose from [Action/Adventure/Comedy/Fantasy/Thriller]** | **You have entered an invalid genre. Please choose from [Action/Adventure/Comedy/Fantasy/Thriller]** | Yes |
| 7 | 12 | **You have entered an invalid genre. Please choose from [Action/Adventure/Comedy/Fantasy/Thriller]** | **You have entered an invalid genre. Please choose from [Action/Adventure/Comedy/Fantasy/Thriller]** | Yes |

Option 8 – Recommend movies – Based on user-preferred Classification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Data** | **Expected Result** | **Actual Result** | **Result as expected?** |
| 1 | G | **Display movies with “G” as their classification** | **Display movies with “G” as their classification** | Yes |
| 2 | PG13 | **Display movies with “PG13” as their classification** | **Display movies with “PG13” as their classification** | Yes |
| 3 | NC16 | **Display movies with “NC16” as their classification** | **Display movies with “NC16” as their classification** | Yes |
| 4 | M18 | **Display movies with “M18” as their classification** | **Display movies with “M18” as their classification** | Yes |
| 5 | R21 | **Display movies with “R21” as their classification** | **Display movies with “R21” as their classification** | Yes |
| 6 | ? | **You have entered an invalid classification. Please choose from [G/PG13/NC16/M18/R21]** | **You have entered an invalid classification. Please choose from [G/PG13/NC16/M18/R21]** | Yes |
| 7 | 12 | **You have entered an invalid classification. Please choose from [G/PG13/NC16/M18/R21]** | **You have entered an invalid classification. Please choose from [G/PG13/NC16/M18/R21]** | Yes |