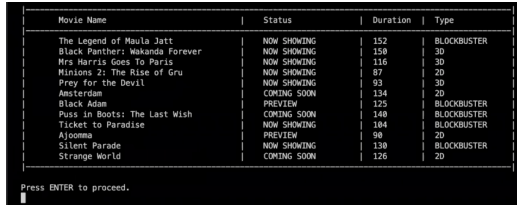
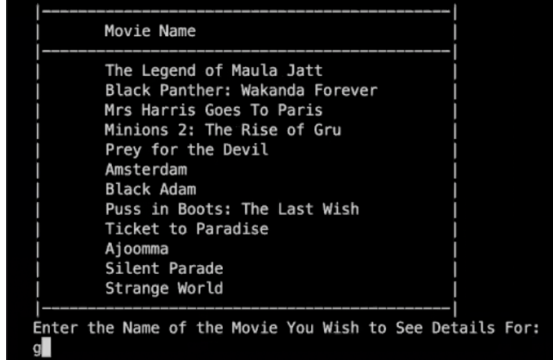
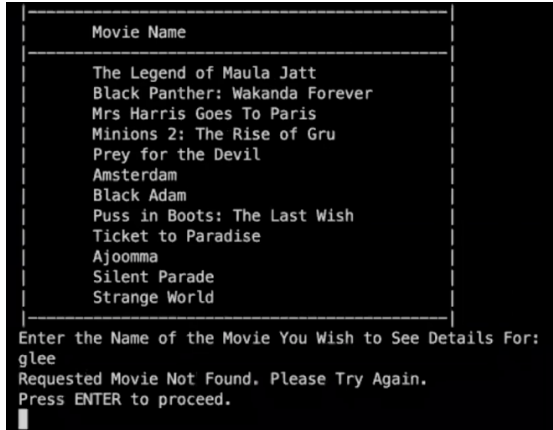
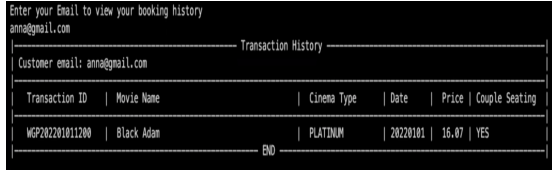


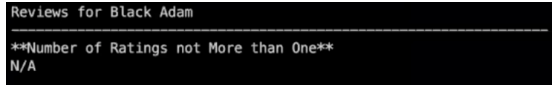



User's choice from display menu in moviegoer view

	Test Case	Expected Outcome	Result
1	Choice 1 : View Available Movies	Movies displayed in tabular format with name, status, duration and type columns. Movies with status END_OF_SHOWING are filtered out and not displayed.	
2	Choice 2 : View Movie Details	Movie Titles are listed and the user is prompted to select a movie name.	
3	A- Movie Found	Complete details of the selected movie includes director, synopsis, average rating, etc.	

	B - movie not found	Displays "Movie not found"	<pre> ----- Title: Black Adam ----- Showing Status: PREVIEW ----- Synopsis: Nearly 5,000 years after he was bestowed with the almighty powers of the Egyptian gods — and imprisoned just as quickly — Black Adam is freed from his earthly tomb, ready to unleash his unique form of justice on the modern world. ----- Director: Jaume Collet-Serra ----- Cast: Dwayne Johnson, Aldis Hodge, Noah Centineo, Sarah Shahi, Marwan Kenzari, Quintessa Swindell ----- **Number of Ratings not More than One** Average Review Score: N/A Past Reviews: N/A  Press ENTER to proceed. </pre>
4	Choice 3 : See Top 5 Movies by Sales	Display sorted list of top 5 movie by sales (excluding movies with status END_OF_SHOWING) Basic information about the movie (name, age rating, duration and type) are shown along with the total sales.	<pre> ----- Movie Name   Age Rating   Movie Type   Duration   Sales ----- The Legend of Maula Jatt   R21   BLOCKBUSTER   152   17 Amsterdam   M18   20   134   16 Minions 2: The Rise of Gru   PG   20   87   12 Black Adam   PG13   BLOCKBUSTER   125   11 Puss in Boots: The Last Wish   PG   BLOCKBUSTER   140   9 ----- </pre>
5	Choice 4 : See Top 5 Movies by Rating	Display sorted list of top 5 movie by rating (excluding movies with status END_OF_SHOWING) Basic information about the movie (name, age rating, duration and type) are shown along with the average rating.	<pre> ----- Movie Name   Age Rating   Movie Type   Duration   Average Rating ----- The Legend of Maula Jatt   R21   BLOCKBUSTER   152   5.0 Black Panther: Wakanda Forever   PG13   30   158   4.25 Mrs Harris Goes To Paris   PG13   30   116   4.25 Minions 2: The Rise of Gru   PG   20   87   3.75 Prey for the Devil   R21   30   93   1.25 ----- </pre>
6	Choice 5 : See Available Showtimes	All showtimes (across movies) displayed in a tabular format with the following columns "Movie Status", "Movie Name", "Cinema Type", "Date", "Time", and "Holiday" Movies with status	<pre> ----- Showtimes ----- Movie Status   Movie Name   Cinema Type   Date   Time   Holiday ----- PREVIEW   Black Adam   PLATINUM   20220101   1200   YES PREVIEW   Black Adam   SILVER   20220101   1200   YES PREVIEW   Black Adam   PLATINUM   20220104   1200   NO PREVIEW   Ajooma   GOLD   20220101   1600   YES NOW SHOWING   Black Panther: Wakanda Forever   SILVER   20220103   1600   NO NOW SHOWING   Ticket to Paradise   GOLD   20220103   1600   NO NOW SHOWING   Prey for the Devil   SILVER   20220103   1600   NO NOW SHOWING   Silent Parade   SILVER   20220103   2000   NO NOW SHOWING   Minions 2: The Rise of Gru   GOLD   20220103   2000   NO NOW SHOWING   The Legend of Maula Jatt   SILVER   20220103   2000   NO COMING SOON   Puss in Boots: The Last Wish   PLATINUM   20220311   1600   NO COMING SOON   Amsterdam   SILVER   20220310   2000   NO COMING SOON   Amsterdam   PLATINUM   20220312   1600   NO COMING SOON   Puss in Boots: The Last Wish   SILVER   20220312   2000   NO ----- </pre>

		END_OF_SHOWING are filtered out, while the rest rows appear in the order PREVIEW, NOW_SHOWING, and COMING_SOON	
7	Choice 6 : Make a New Booking	Clears console and displays -----	Covered in demo
8	Choice 7 : See Booking History A - have older transactions for the email entered	Prompts the user for their email to find booking records for previous transactions. Displays them in a tabular format with the following attributes "Transaction ID", "Movie Name", "Cinema Type", "Date", "Price", and "Couple Seating"	
9	Choice 8 : View Reviews	Enter movie name to see reviews	
10	Choice 8 : View Reviews A - movie found with more than 1 review	Displays movie titles. Prompts user to enter movie name, and displays records of rating and review from data (assumed to be entered by prior customers.) "N/A" shown if 1 or less rating found	
11	Choice 8 : View Reviews B - movie	Displays movie titles. Prompts user to enter movie name. Displays **Number of Ratings not	

	found but has just 1 review	More than One** N/A	
12	Choice 9 : Create Review A - movie found and review added successfully	Displays movie titles. Takes in movie name, review and rating from the user to add a new review record for the movie	 <pre> Movie Name ----- The Legend of Maula Jatt Black Panther: Wakanda Forever Mrs Harris Goes To Paris Minions 2: The Rise of Gru Prey for the Devil Amsterdam Black Adam Puss in Boots: The Last Wish Ticket to Paradise Ajoomma Silent Parade Strange World ----- Enter the Name of the Movie you Wish to Review. Black Adam Enter a Rating For Black Adam [0-5.0] 5 Enter a Short Review for Black Adam great </pre>

A) Customer input to make a new booking

S/N	Test Case	Expected Outcome	Result
1	SELECTCINEPLEX	Lists out all cineplexes with columns "Cineplex Name" and "Cineplex Location" Prompts user to select cineplex by entering name, variable cineplexName is assigned.	
	A - Valid Cineplex Name entered	Flow moves to next state SELECTMOVIE	
	B - Invalid Cineplex Name entered	Checks for "0" => return or isValidCineplexName => "Please Enter a Valid Cineplex Name." Sets state back to SELECTCINEPLEX	
2	SELECTMOVIE	Prompts user to select movie by entering name. Lists out all movie titles to choose from, variable movieName is assigned.	
	A - Valid Movie	Flow moves to next state	

	Name entered	DISPLAYSHOWTIMES	
	SELECTMOVIE B - Invalid Movie Name entered	Checks for "0" => return to state SELECTCINEPLEX or isValidCineplexName => "Please Enter a Valid Movie Name" sets state back to SELECTMOVIE	
2	DISPLAYSHOWTIMES	Clears console and lists all the showtimes for the cineplex and movie combination selected. Prompts user to enter 0 to go back or 1 to select a showtime from the display.	
	A - "0" entered	Returns state back to SELECTMOVIE	
	B - "1" entered	state set to SELECTCINEMATATYPE (1 of 3 steps to identify and select a showtime)	
	C - no showtimes available	Displays "No showtimes available for the current movie at the current cineplex." "Rerouting you to select cineplex again." state taken back to SELECTCINEPLEX	
	D - invalid value entered	Resets state to DISPLAYSHOWTIMES	
3	SELECTCINEMATATYPE	Prompts user to enter CinemaType for the showtime they have selected. Lists out options for CinemaType to choose from. Variable cinemaTypeInput is assigned.	
	A - Valid cinemaTypeInput entered	Flow moves to next state SELECTDATETIME	
	B- Invalid cinemaTypeInput entered	Checks for "0" => return to state DISPLAYSHOWTIMES or isValidCineplexName => "Please	

		Enter a valid Cinema Type" sets state back to SELECTCINEMATYPE	
4	SELECTDATETIME	Prompts user to enter the date for the showtime they have selected (Format: YYYYMMDD.) Variable dateString is assigned. And time in format: 24 Hours MMHH. Variable timeString is assigned.	
	A - Valid data and time entered	Flow moves to next state GETSHOWTIME	
	B - SELECTDATETIME - invalid date or time entered	Checks for "0" => return to state SELECTCINEMATYPE or isValidDateTime => "Invalid Date and Time Entered. Please try again." resets state back to SELECTDATETIME	
5	GETSHOWTIME	Clears console and shows information about selected showtime — "Movie Status","Movie Name","Cinema Type","Date","Time","Holiday" Prompts user to enter 0 to go back or 1 confirm showtime selected.	
	A - "0" entered	Returns state back to DISPLAYSHOWTIMES	
	B - "1" entered	Flows to next state SELECTSEAT	
6	SELECTSEAT	Clears console and shows seating layout of the selected showtime, with letters corresponding to rows and number for column. User prompted to "Enter the Row and Column of the Seat you Wish to Book," variables customerRow and customerColumn are assigned. Prints selected row and column for user to confirm. Prints selected row and column for user to confirm.	

		Confirmation options shown: “[Enter 1 to Confirm Your Seat Selection]” "[Enter 0 to Return]"	
	A - Couple Seat	In state SELECTSEAT of the customer book menu, if row C is selected in PLATINUM cinema type, display: "You Have Selected A Couple Seat." Next, confirmation options shown: “[Enter 1 to Confirm Your Seat Selection]” "[Enter 0 to Return]" Variable customerCoupleSeat is set to true upon confirmation, which is used further for price calculation and booking seat.  Flows to next state CUSTOMERDETAILS with “1”	
	B - Confirm Regular Seat	CustomerCoupleSeat is retains false value Flows to next state CUSTOMERDETAILS with “1”	
	C - “0” or invalid value entered	When “0” or an invalid input is entered, state set back to SELECTSEAT "Invalid Row and Column Entered. Please try again" shown in case of invalid input	
7	CUSTOMERDETAILS	Clears console and prints "Please Enter your Personal Details for Booking" User’s response to "Are you a Student? [Y/N]" sets variable customerIsStudent to true or false accordingly. Prompt to enter details — Name (string), Mobile No. (int), Email (string), and lastly Age(int) — which is further converted to Age object.	
	A - all valid input	A new customerObject is created	

	entered	with the valid details. Flows to next state CONFIRMCUSTOMERDETAILS.	
	B - input invalid	At whichever point an invalid value is entered, error message is displayed, and state reset to CUSTOMERDETAILS.	
8	CONFIRMCUSTOMERDETAILS	Clears console to list all details entered in the previous step. Including -Student Account- or -Regular Account- and name, mobile no, email, age (number.) Confirmation options shown: "[Enter 1 to Confirm Your Details]" "[Enter 0 to Change Your Details]"	
	A - confirm "1"	Flows to next state DISPLAYPRICE	
	B - confirm "0"	Go backs to state CUSTOMERDETAILS	
	C - confirm invalid value	Prints "Invalid Input." Resets to state CONFIRMCUSTOMERDETAILS	
9	DISPLAYPRICE	Clears console and asks "Do You Have a Discount Code? [Y/N]" Upon entering "Y", prompt to "Please Enter Your Discount Code:" After check for isValidDiscountCode, final price with discount code is displayed. Confirmation options shown: "[Enter 0 to Return to Seat Selection]" "[Enter 1 to Proceed to Payment]" "[Enter 2 to Change Discount Code]"	
	A - confirm with correct discount code	Flows to next state PAYMENT	
	B - invalid discount code	After check for isValidDiscountCode Prints "Invalid Discount Code Entered."	



		Resets to state DISPLAYPRICE	
	C - return to seat selection (without discount)	Goes back to state SELECTSEAT	
	DISPLAYPRICE D - input mismatch	At whichever point an invalid value is entered, error message is displayed, and state reset to DISPLAYPRICE	
10	PAYMENT	Clears console and prints "Would You Like to Confirm Payment?" Confirmation options shown: "[Enter 2 to Cancel Payment and Return to Main Menu]" "[Enter 1 to Confirm Payment]" "[Enter 0 to Return]"	
	A - "1" confirm	Seat is booked with internal function call (bookCoupleSeat called if the option was selected as true in state SELECTSEAT) Flows to state END: clears console and prints "Leaving Customer View" before returning to main menu.	
	B - "0" return	Prints "Cancelling Payment." and "Please Select Another Movie at the Same Cineplex" Goes back to state SELECTMOVIE	
	C - "2" cancel payment and return to main menu	Flows to state END: clears console and prints "Leaving Customer View" before returning to main menu.	
	D - invalid value	Upon entering an erroneous value, redirects to earlier state. If there is an error in creating a booking with customer credentials, prints "Error with creating customer credentials." "Redirecting to entering customer details" Goes back to state CUSTOMERDETAILS	

