Add client

Use-Case Chart

Actions performed by Actors	System Response
1. User enters their name, address and phone number	
	2. Creates a new unique ID for the client, sets the balance to 0, and stores them in a list

Remove Client

Use-Case Chart

Actions performed by Actors	System Response
1. User enters client ID to be removed.	
	2. Verify that the ID exists. If not, exit to the command prompt
	Check to make sure the client in question does not have a current or future show scheduled. If so, alert the user that the client can not be removed for this reason.
	If no complications, remove the client from the list.

List all Clients

Use-Case Chart

Actions performed by Actors	System Response
1. Users selects option to list every client	
	2. System loops through and prints all clients in the list

Add customer

Use-Case Chart

Actions performed by Actors	System Response
1. User enters the name, address, phone number, and the number and expiration date of exactly one credit card	
	2. Saves the customer details and continues to verify that the credit card is not already on file with another customer. If it already exists on file, alert the user and return to the command prompt If the information is valid, create a unique customer ID and store the new customer in the customer list

Remove customer

Use-Case Chart

Actions performed by Actors	System Response
1. Customer requests account deletion	
2. Clerk issues request to remove customer by pressing "5" in the command GUI	
	3. System asks for Customer ID
4. Clerk asks Customer for ID	
5. Customer gives Clerk ID	
6. Clerk inputs Customer ID	
	7. System verifies Customer ID. Displays customer was found. Otherwise, displays customer was not found and exits.
	8. System proceeds to delete all information related to Customer ID (name, address, phone number, number and expiry date of all credit cards). It displays that the customer was successfully deleted.

Add Credit Card

Use-Case Chart

Actions Performed by Actor	System Response
1. Customer requests to add a credit card to account	
2. Clerk issues request to add a credit card by pressing "6" into the command GUI	
	3. System requests for Customer ID
4. Clerk inputs Customer ID	
	5. System verifies Customer ID. Displays customer was found. Otherwise, displays customer was not found and exits.
	6. System requests for credit card number and expiry date.
7. Clerk inputs credit card number and expiry date.	
	8. System attaches credit card information to the customer ID. It displays that the card was successfully added.

Remove Credit Card

Use-Case Chart

Actions performed by Actors	System Response
1. Customer requests credit card deletion	
2. Clerk issues request to remove credit card by pressing "7" in the command GUI	
	3. System asks for credit card number
4. Clerk inputs credit card number	
	5. System verifies if it has the credit card. It displays credit card found. Otherwise, displays credit card not found and exits.
	6. System verifies if the credit card attached to the Customer ID is the only one or one of many credit cards. All information related about the credit card is deleted, and displays credit card was removed if there are more than one credit card associated with the Customer ID. Otherwise, it displays failed to delete credit card due to it being the only credit card associated with the Customer ID.

List Customers

Use-Case Chart

Actions performed by Actors	System Response
1. Customer asks if they have an account in the system	
2. Clerk issues request to list all customers by pressing "8" in the command GUI	
	3. System finds all customer ID's, and print every information associated to the ID
4. Clerk finds if the customer exists in the list	

Add a Show

Use-Case Chart

Actions performed by Actor	System Response
1. User requests to add a new show	
	2. System asks for ClientID, name of show, and date range
3. User provides ClientID, name of show, and date range	
	4. System checks if date range has overlap with any other shows
	5. If no overlap, use input data to create a new show listing
	6. Inform the user that the show was added
	7. Output the new show information to the user

List All Shows

Use-Case Chart

Actions performed by Actor	System Response
1. User requests to see all available shows	
	2. System retrieves the listing of shows
	3. System iterates through the list of shows displaying them to the user

Store Data

Use-Case Chart

Actions performed by Actor	System Response
1. User requests to store all theater related data	
	2. Stores an array of Clients onto the disk in an .ser file.
	3. Stores an array of Customers onto the disk in an .ser file
	4. Stores an array of Credit Cards onto the disk in an .ser file
	5. Stores an array of all shows onto the disk in an .ser file
	6. Informs the user that storage was successful in an .ser file

Retrieve Data

Use-Case Chart

Actions performed by Actor	System Response
1. User requests to retrieve all theater related data	
	2. Retrieves an array of Clients from the disk .ser file
	3. Retrieves an array of Customers from the disk .ser file
	4. Retrieves an array of Credit Cards from the
	5. Retrieves an array of all Shows from the disk .ser file
	6. Inform user that retrieval was successful

Help

Use-Case Chart

Actions performed by Actor	System Response
1. Clerk unsure of usage on each command and requests help by pressing "13" into system	
	2. System displays in detail what each command does