

Use case Exit the Application

Actions performed by the actor	Responses from the system
1. The user issues a request to exit the application	2. If any changes have been made, the system asks if the user would like to store these changes to disk. Otherwise go to step 4.
3. The user inputs yes or no to the system	3. If system reads in yes or no input from the user. If the input is yes, the system stores all of the data to disk. 4. The system exits the application

Use case Add Client

Actions performed by the actor	Responses from the system
1. The theater gains a new client 2. The user issues a request to add a new client 4. The user inputs the name, address and phone number into the system.	3. The system asks for a name, address and phone number for the client. 5. The system reads in the data, and if the client can be added, generates a unique ID for the client, sets the client's balance to 0, and remembers the client's data. 6. The system displays to the user whether the client has been successfully added along with its data.

Use case Remove Client

Actions performed by the actor	Responses from the system
1. The theater loses a client 2. The user issues a request to remove a client 4. The user enters a client ID	3. The system asks for a client ID 5. If a client with the supplied ID exists and has no shows scheduled for a future date, that client is deleted from the system. 6. The system displays to the user whether a client has been deleted, along with that client's name and ID if it has.

Use case List All Clients

Actions performed by the actor	Responses from the system
1. The user issues a request to list all clients for the theater.	2. The system displays all of the theater's clients along with the clients' IDs, names, addresses, phone numbers, and balances.

Use case Add Customer

Actions performed by the actor	Responses from the system
1. The customer fills out an application containing their name, address and phone number, as well as the number and expiry date of one credit card then hands the application to the user. 2. The user issues a request to add a customer 4. The user inputs the new customer data to the system	3. The system requests the new customer data 5. If the customer can be created, the system creates a new customer, generates a unique ID for it and remembers all of the customer data. 6. The system indicates whether a new customer has been created and displays the customer's data.

Use case Remove Customer

Actions performed by the actor	Responses from the system
1. The user requests to remove a customer. 3. The user inputs the customer's ID number. 5. The user confirms that the appropriate customer is being removed.	2.The system asks for the customer's ID number 4.The system retrieves the customer's information and requests confirmation of deletion 6. The system deletes all of the customer's information.

Use case Add a Credit Card

Actions performed by the clerk	Responses from the system
1. A customer would like to pay with a new credit card. 2. The user requests to add a new credit card. 4. The user inputs the customer's ID number. 6. The user confirms that the correct information has been retrieved. 8. The user inputs the customer's credit card information.	3.The system requests the customer's ID number. 5.The system retrieves the customer's information and requests confirmation 7. The system requests a credit card number and expiration date 9. The system checks to see if the card is expired and adds the card to the customer's list of credit cards. 10. The system indicates if the card was added successfully or not.

Use case Remove a Credit Card

Actions performed by the clerk	Responses from the system
1. The user requests to remove a customer's credit card. 3. The user inputs the customer's ID number and credit card information. 5. The user confirms that the correct information has been retrieved.	2.The system requests the customer's ID number. 4.The system retrieves the customer's information and requests confirmation 6.The system checks to see if this is the customer's only credit card and deletes the card information if it is not the

	<p>only card.</p> <p>7. The system indicates if the card was removed successfully or not.</p>
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Use case List all Customers.

Actions performed by the actor	Responses from the system
1. The user requests to list all customers for the theater.	2. The system displays all of the theater's customers along with the customers IDs, names, addresses, phone numbers, and credit card details

Use case Add a Show/Play.

Actions performed by the actor	Responses from the system
1. Client requests/fills a form to add a new show.	3. The system asks for name of the show, the client id, and the period for which the client wants the theater for this play.
2. The user requests the system to add a new show.	
4. The user enters the information into the system.	
	5. If the information is valid and there are no shows currently scheduled during the new show's window, the system creates the new show and displays to the user whether or not it was successful.

Use case List all Shows.

Actions performed by the actor	Responses from the system
1. The user requests the system to list all shows for the theater.	2. The system displays names and dates of the show for the theater.

Use case Store Data

Actions performed by the actor	Responses from the system
1. The user makes a request to store the data 3. The user enters yes or no	2. System asks for confirmation that the user would like to overwrite the old data. 4. Depending on clerk input, system will either save all data to disk and print to screen confirmation of save or display default window with menu list of actions.

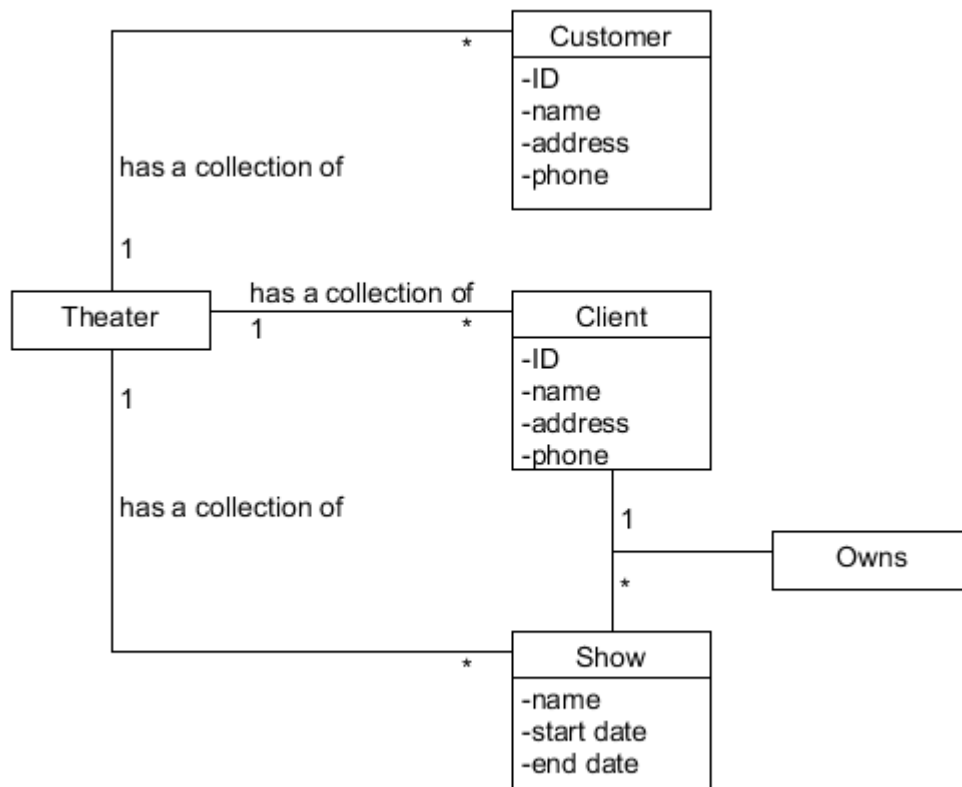
Use case Retrieve Data

Actions performed by the actor	Responses from the system
1. User requests the system to retrieve data from the disk. 4. User chooses to use found data or to load data 6. User enters file name to load 8. User enters yes or no.	2.The system checks if this is a new session. If so, then option to load data will also be displayed otherwise only option one will be displayed. 3.System checks disk for Stored data, if data found display option to user to use found data or to have the option to load data. 5. If input is to use found data system will load the found data and then exit. If the input is to load data, system will ask the user where to load the data from. 7. System looks up file name, if file is found, file will be loaded and system will exit this process. If no file found, system will give the option try again. 9. If user enters yes, system asks for a file name and go to step 6. Otherwise system exits the process.

Use case Help

Actions performed by the actor	Responses from the system
1. User requests help from the system. 3. User enters which help they would like from the list.	2. System displays help menu 4. System displays help instructions requested

Conceptual Class Diagram

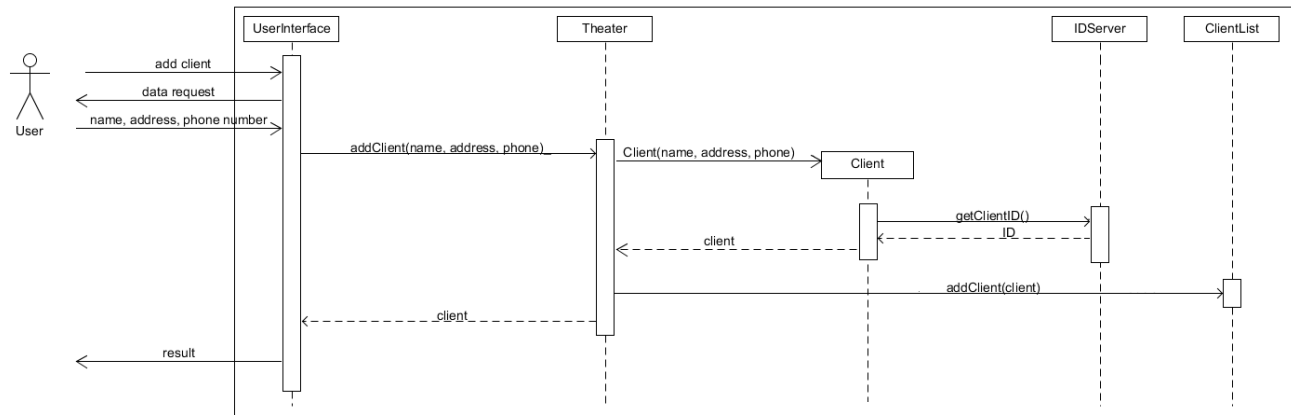


Class Diagram

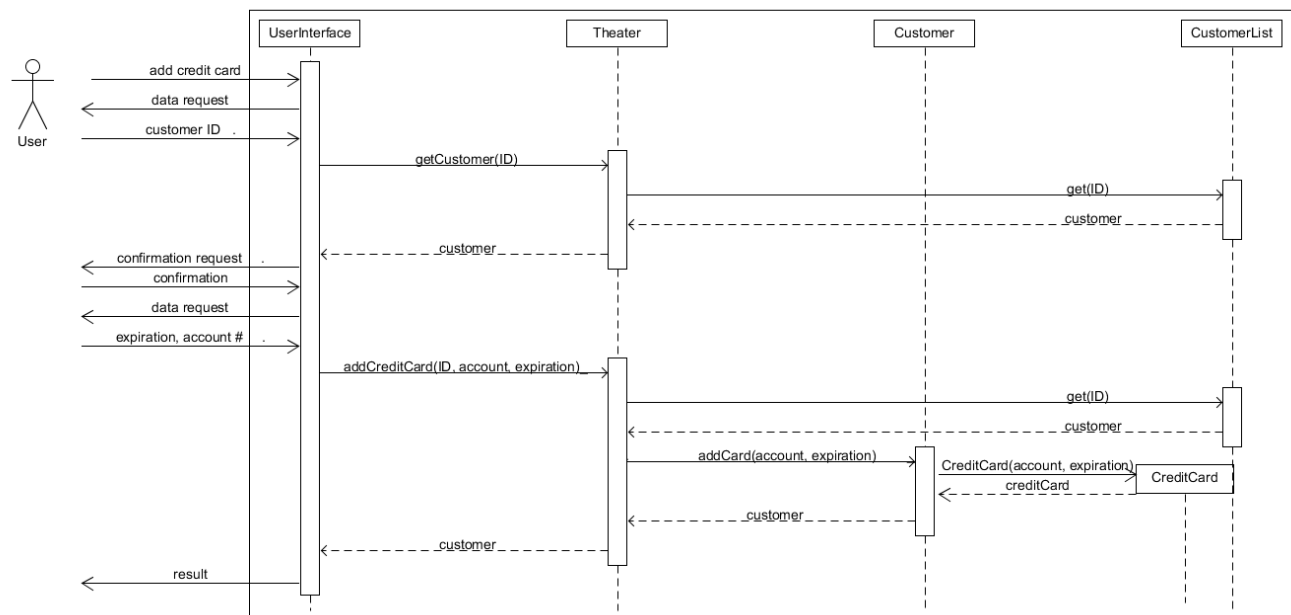


Sequence Diagram

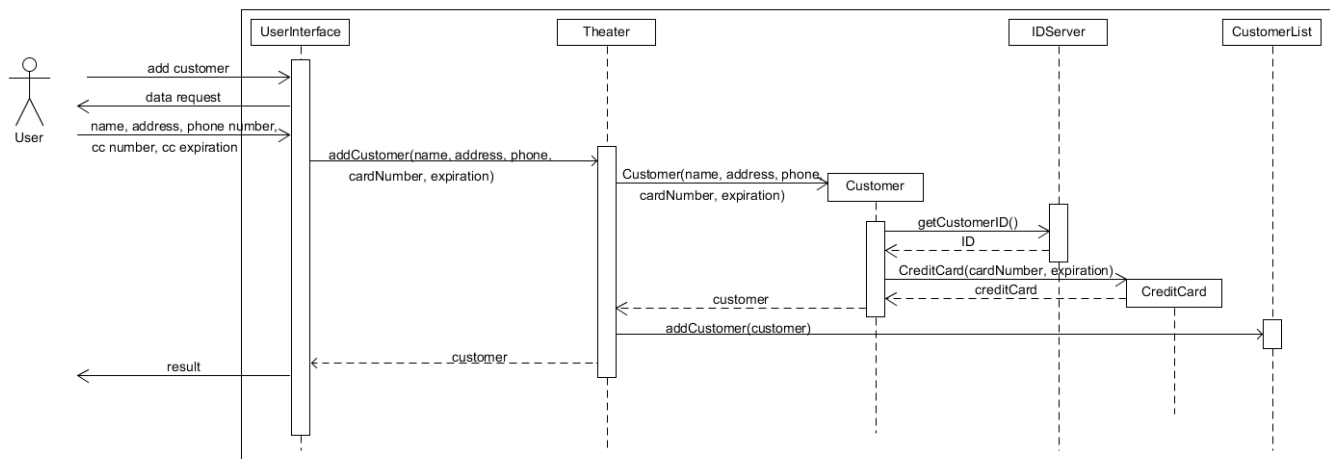
Add Client



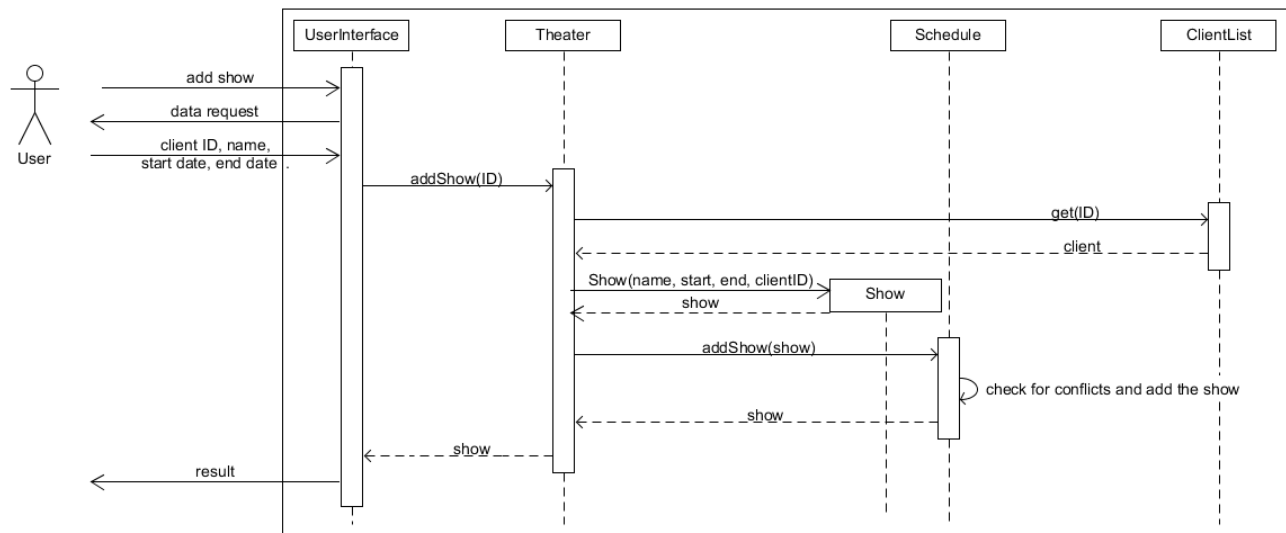
Add Credit Card



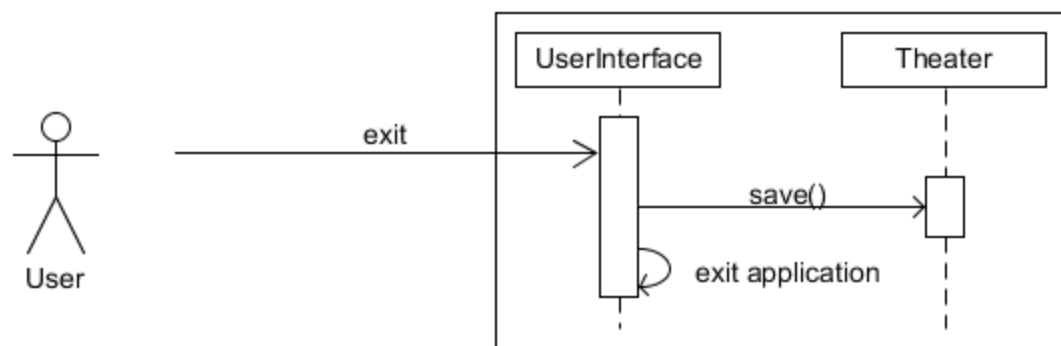
Add Customer



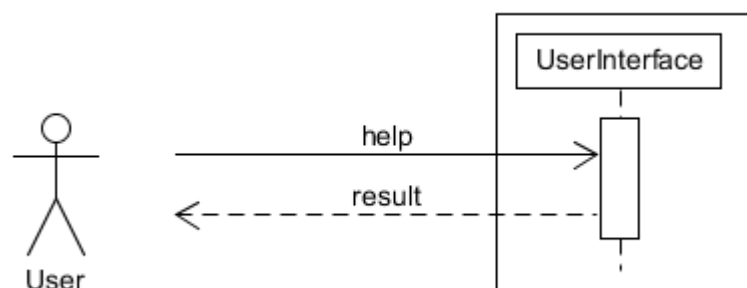
Add Show



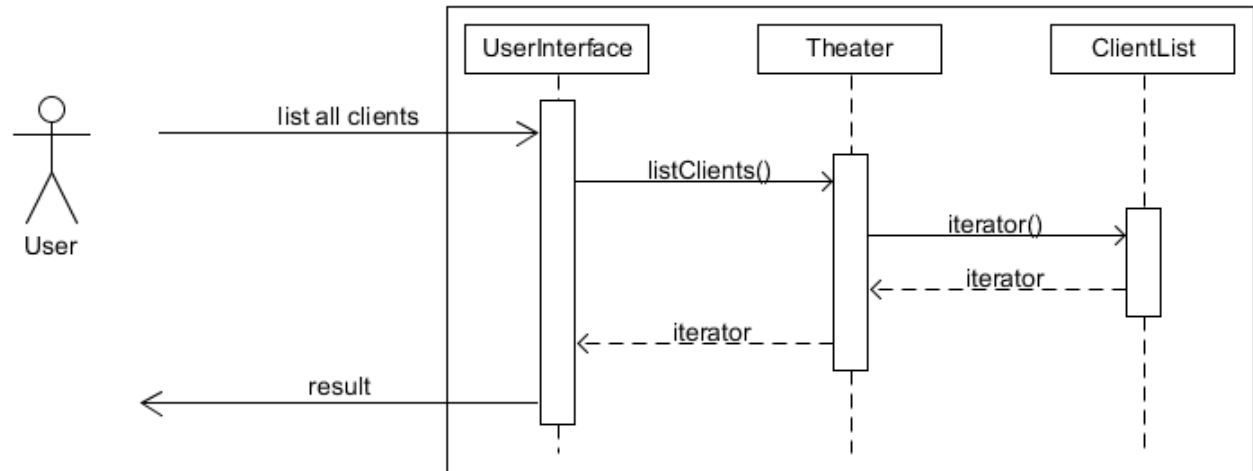
Exit



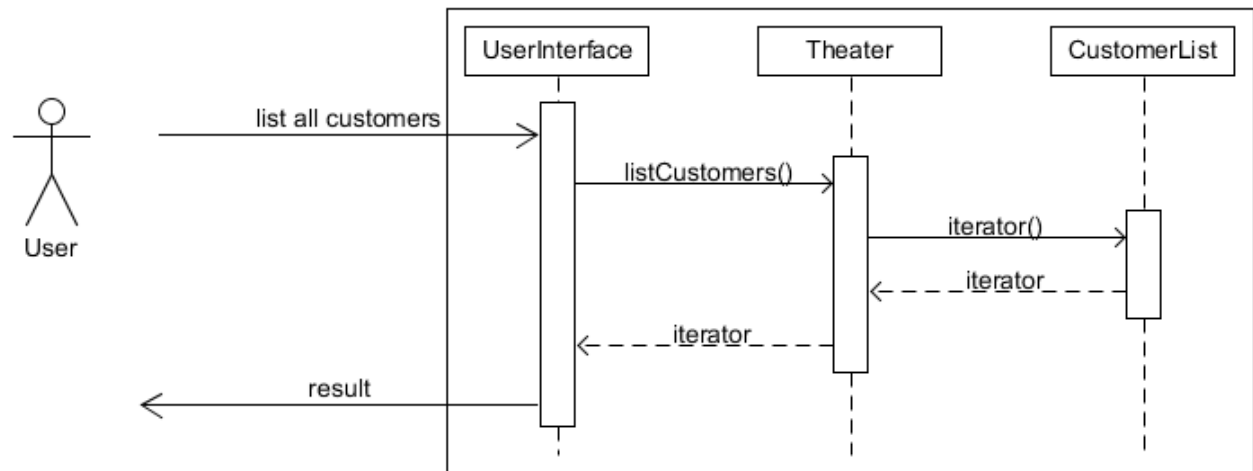
Help



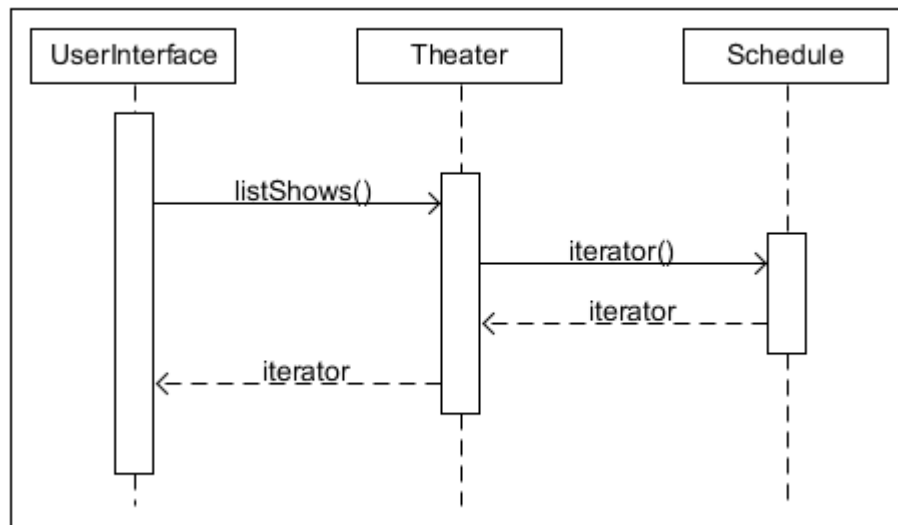
List Client



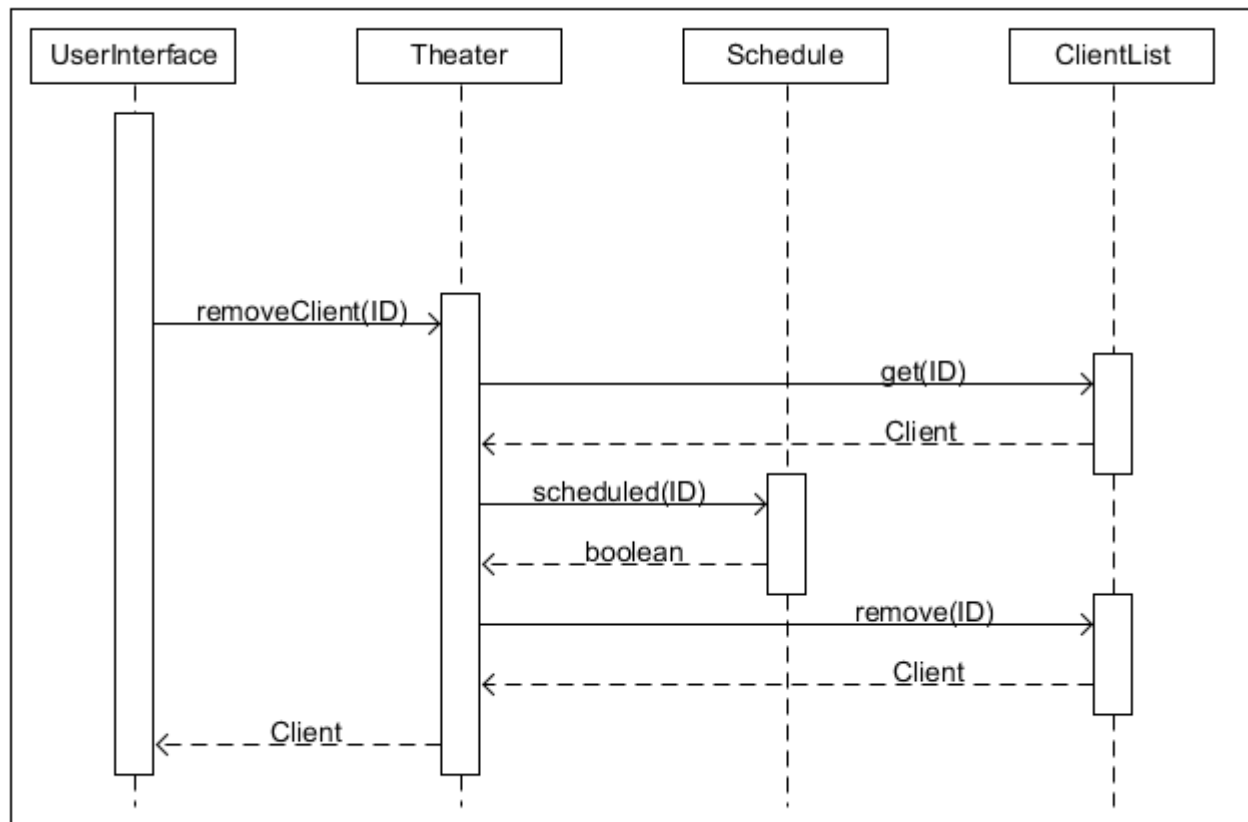
List Customer



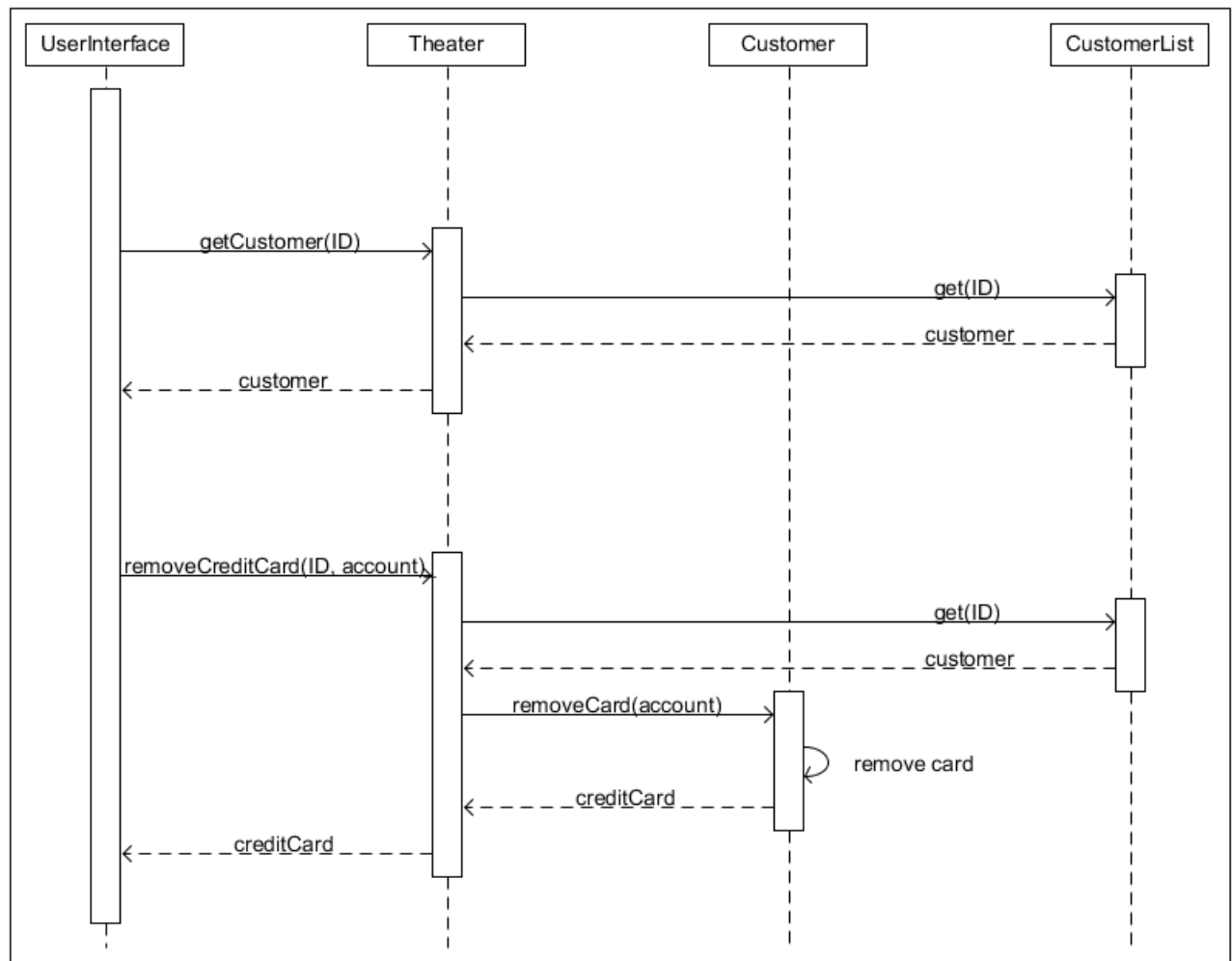
List Show



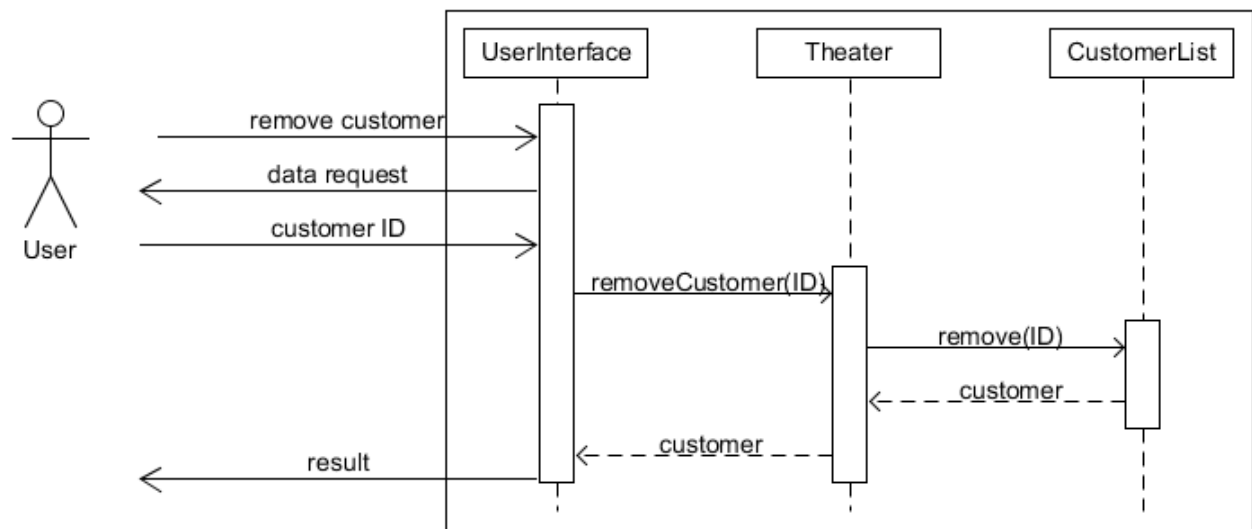
Remove Client



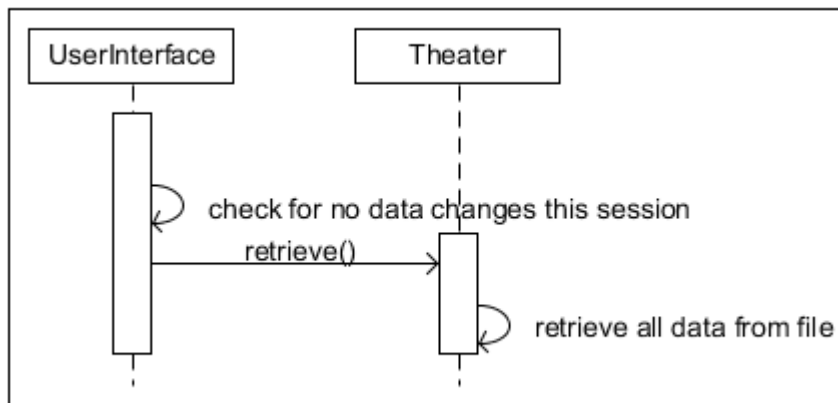
Remove Credit Card



Remove Customer



Retrieve



Save

