

Object-Oriented Design

Assignment 5

(Use Case/Class/Sequence/State Diagram/Traceability Matrix)

By: Group 13

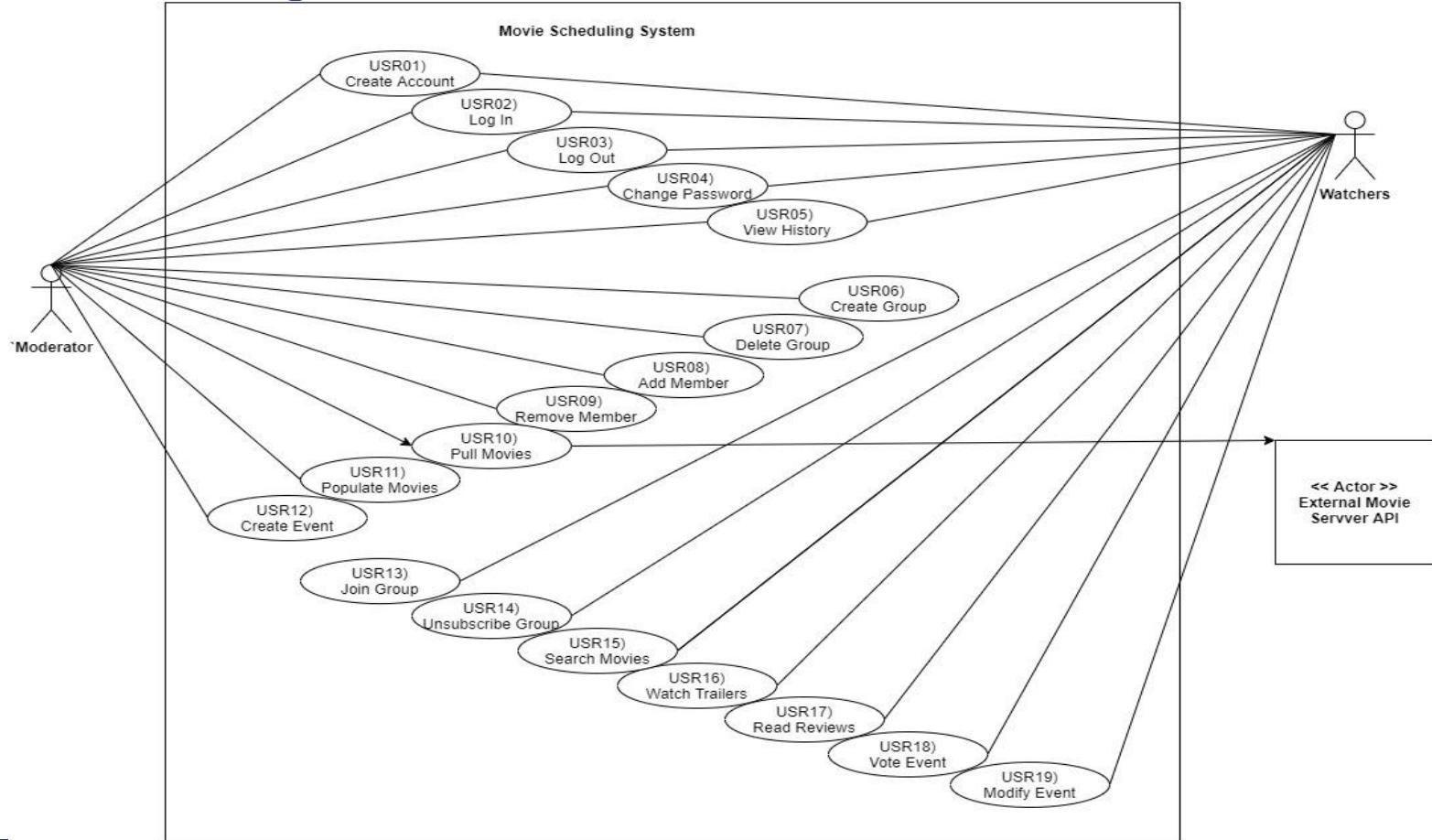
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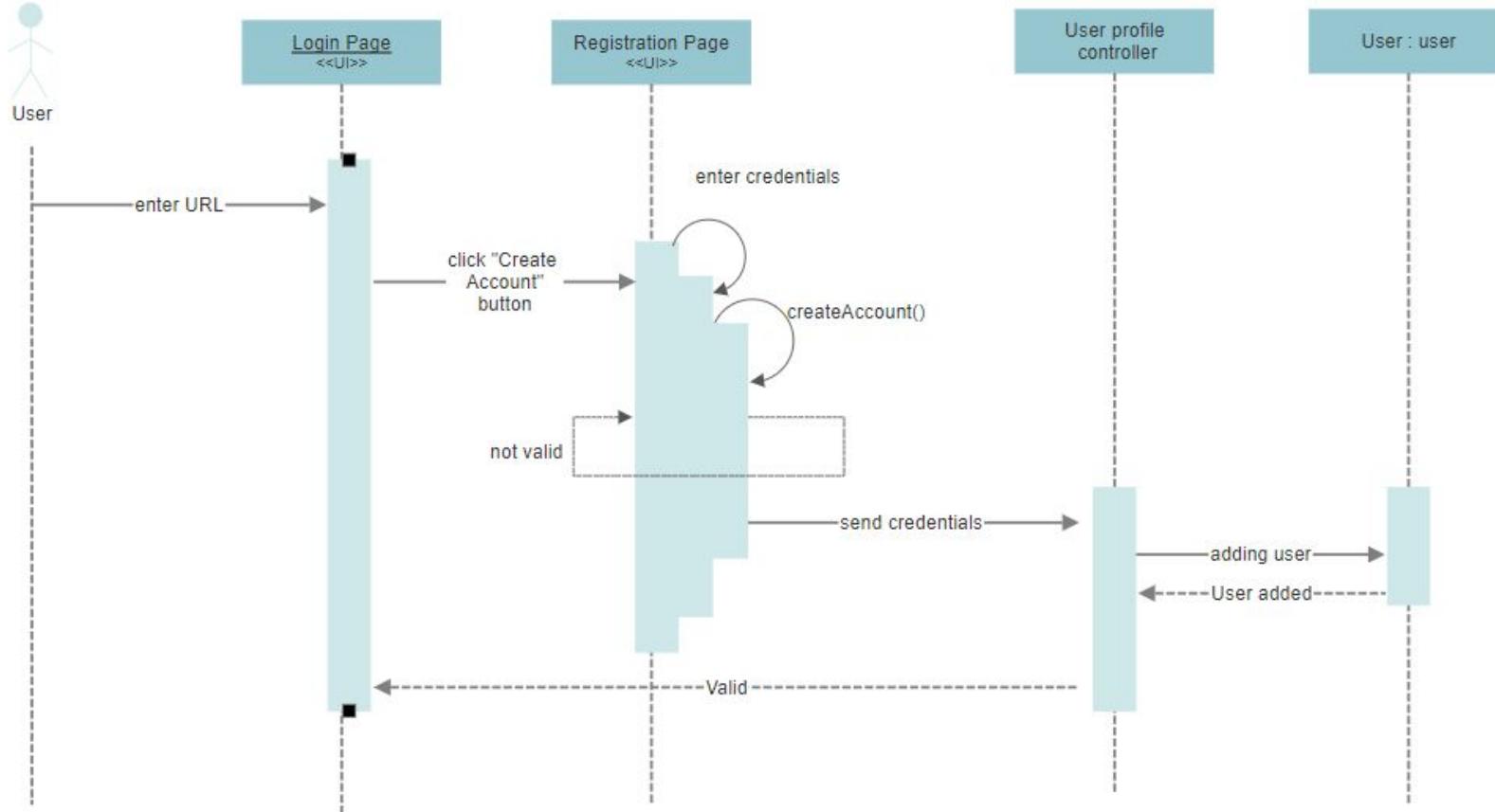
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Use Case Diagram



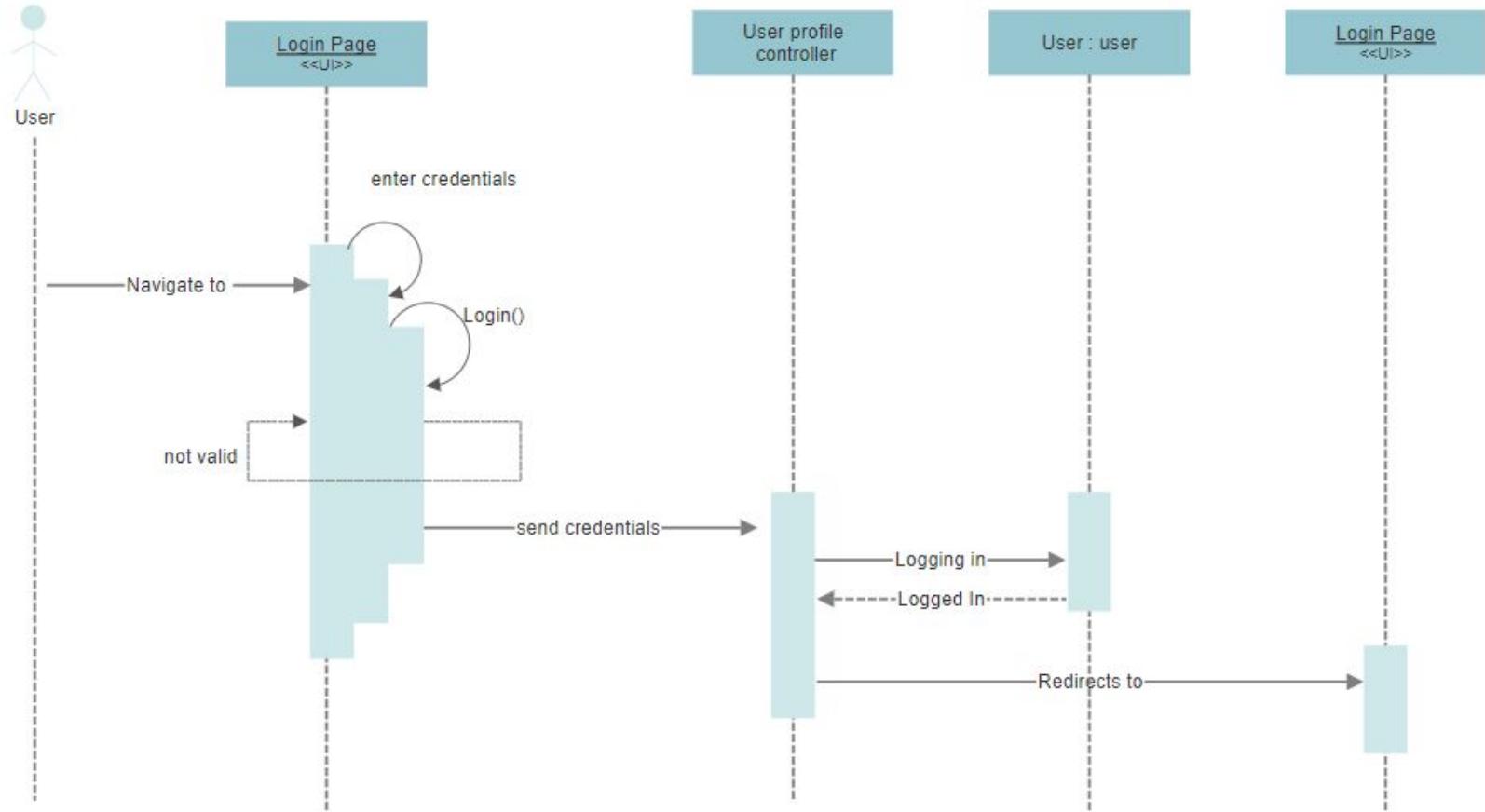
Use Case ID	USR01
Use Case Title	Create Account
Actor(s)	Moderator; Watchers
Summary	Actors create accounts for themselves in the system
Assumption(s)	"Create Account" can only be done once per email; There is only 1 moderator in the system; Moderator will have more privileges than Watchers
Use Case Description	The use case begins when the actors navigated to the homepage of the system via the correct URL on the internet. Both actors will choose "Create Account" by providing their credentials on the registration page. The use case will end when they are able to successfully hit the "Create Account" button.
Pre-condition(s)	Actors have access to the internet via any device
Success End Condition	Actors have created their account and can log in as users of the system
Failed End Condition	Actors are not able to create their account
Step(s)	<ol style="list-style-type: none"> Actors access the login page of the system via the correct URL Actors click on the "Create Account" button System receives the request System displays the registration page Actors input their credentials needed to create the account in the page Actors click on the "Create Account" button System receives the information System checks duplicate email, if no then next step, otherwise displays error and back to step 4 System adds the account to the database System displays the login page
Exception(s)	<ol style="list-style-type: none"> Actors are not able to access the internet The "Create Account" button does not work and crashes the system The system is down for maintenance An account was previously created with the same email The inputted credential does not meet the requirement of the system, for example empty string

Sequence Diagram: Create Account



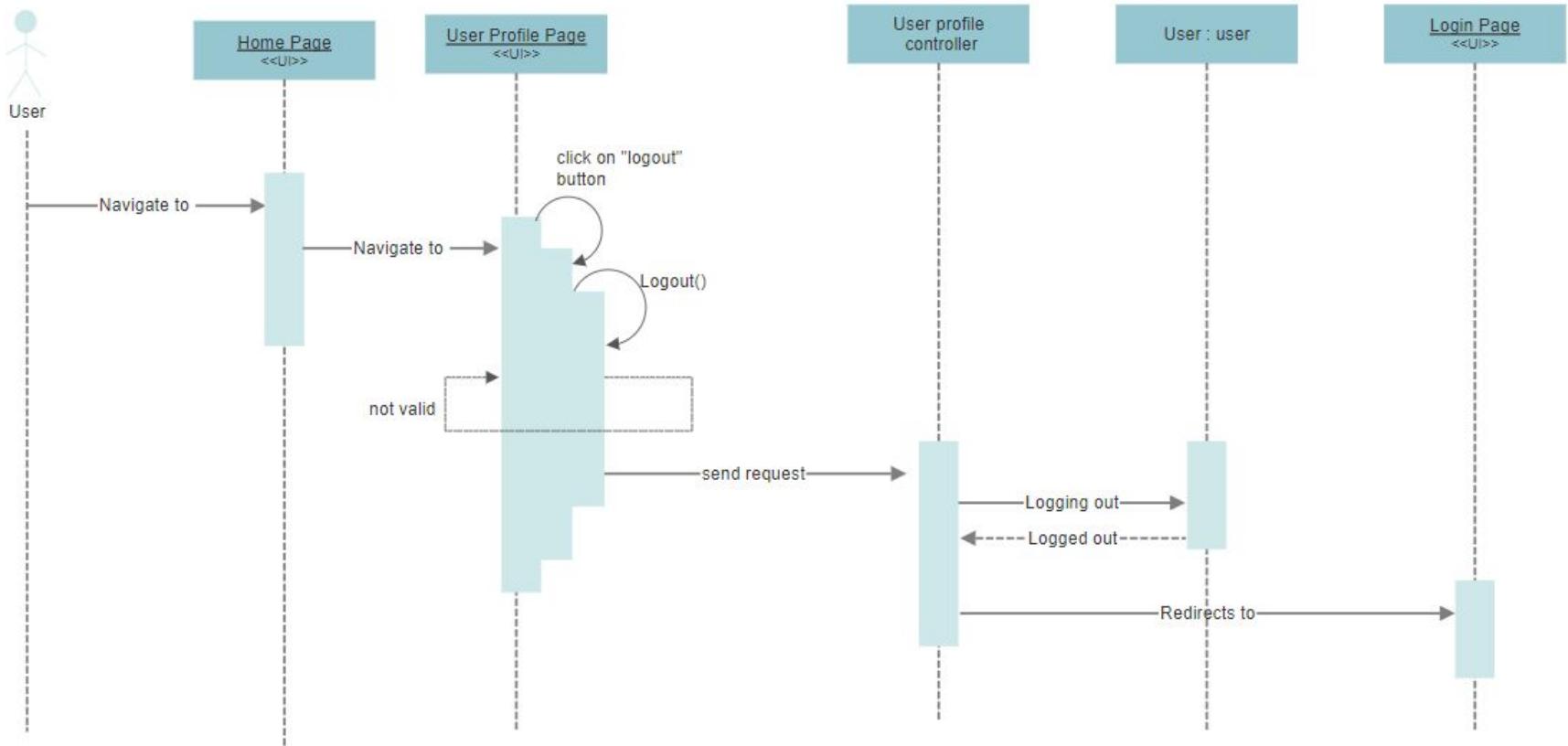
Use Case ID	USR02
Use Case Title	Log in
Actor(s)	Moderator; Watchers
Summary	Actors log into the system using their account
Assumption(s)	Actors remember the credentials needed to log into their account
Use Case Description	The use case begins when the actor navigated to the login page of the system via the correct URL on the internet. Both actors will choose "Log In" by inputting in their credentials. The use case will end when they are able to log in to the system and enter the main homepage of the system.
Pre-condition(s)	Actors have created their account in the system
Success End Condition	Actors have logged into the system and gained access to user's specific functionalities
Failed End Condition	Actors are not able to log into the system
Step(s)	<ol style="list-style-type: none"> Actors access the login page of the system via the correct URL Actors click on "Log In" button System receives the request System displays the login page Actors input their credentials needed to log in to the system Actors click on "Log In" button System receives the information System checks for valid credentials, if correct then next step, otherwise displays error and back to step 4 If the credentials correspond to Moderator, then moderator privileges are granted If the credentials correspond to Watchers, then watchers privileges are granted System redirects the actor to the appropriate homepage of the system
Exception(s)	<ol style="list-style-type: none"> Actors are not able to access the internet Actor's accounts are removed from the system The "Log In" button does not work and crashes the system The system is down for maintenance Actors input the wrong credentials (email or password)

Sequence Diagram: Login



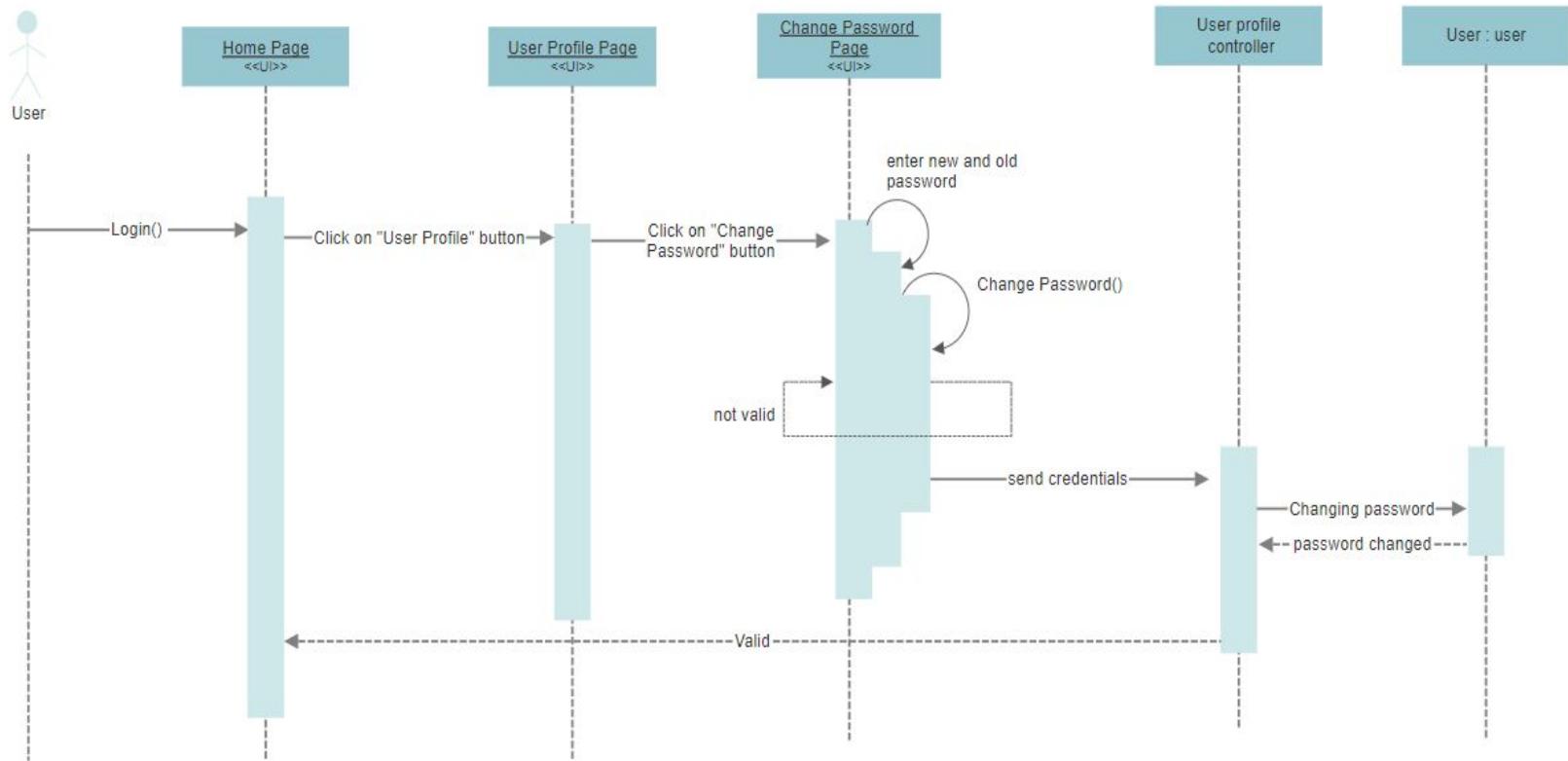
Use Case ID	USR03
Use Case Title	Log out
Actor(s)	Moderator; Watchers
Summary	Actors log out from the system
Assumption(s)	Actors chose to exit from the system
Use Case Description	The use case begins when the actor navigated to the "User Profile" button on the homepage of the system. The use case will end when actors select the "Log Out" button on the user profile page.
Pre-condition(s)	Actors are logged into the system.
Success End Condition	Actors have logged out from the system.
Failed End Condition	Actors are not able to log out from the system.
Step(s)	<ol style="list-style-type: none"> Actors click on the "User Profile" button on the homepage System receives the request System redirects the actors to the user profile page Actors click on "Log Out" button System receives the request System logs the actors out of the system and deletes their session System returns the actors to the login page
Exception(s)	<ol style="list-style-type: none"> The "Log Out" button does not work and crashes the system

Sequence Diagram: Logout



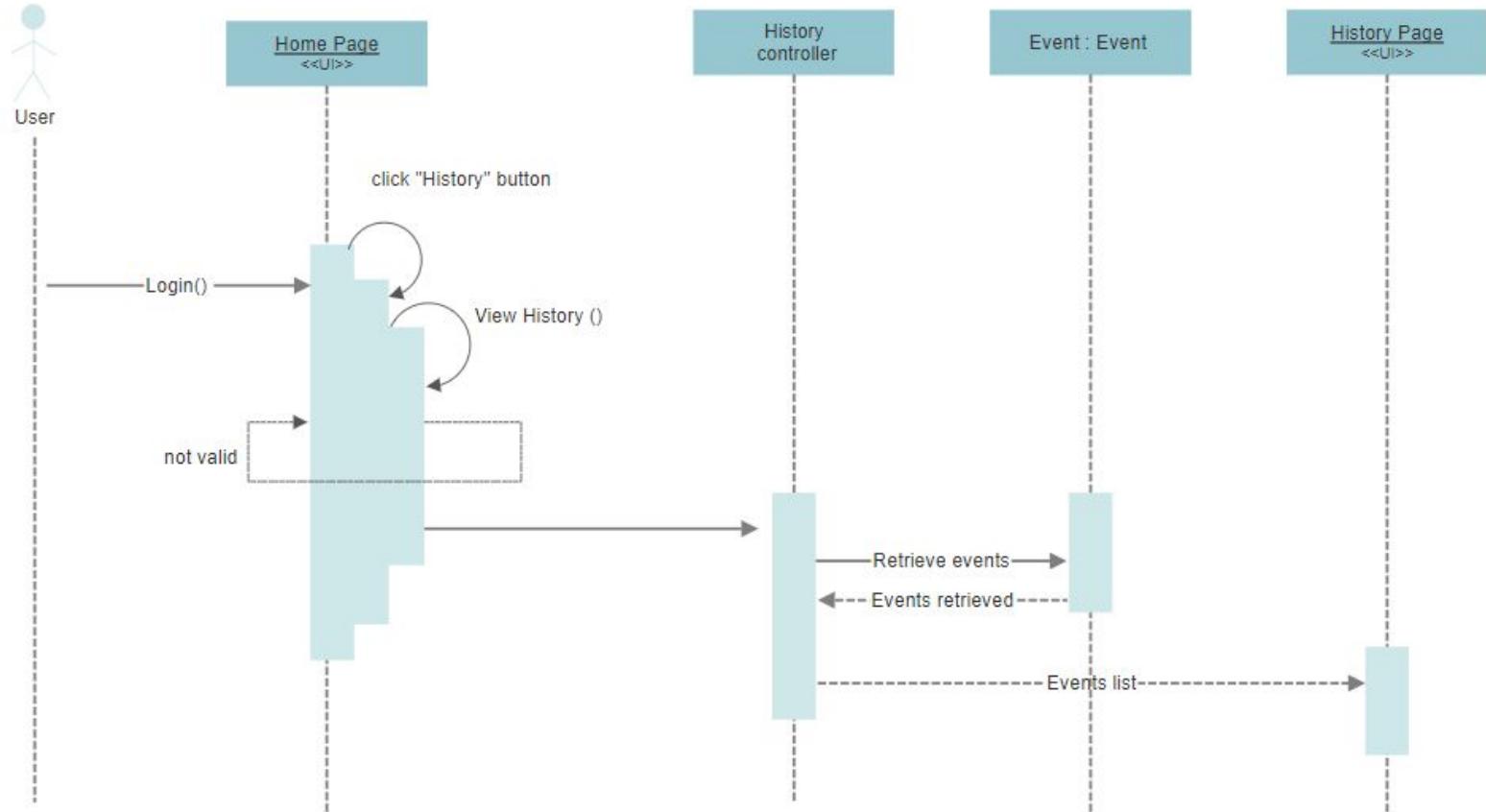
Use Case ID	USR04
Use Case Title	Change Password
Actor(s)	Moderator; Watchers
Summary	Actors change their login credentials of the system.
Assumption(s)	Actors want to change their current password with the new password
Use Case Description	The use case begins when the actor logged into their account on the system. Actors will click the "User Profile" button, which redirects them to the user profile page. Actors will click "Change Password", and input their new password on the change password page. The use case will end when they receive notification that their account password was modified.
Pre-condition(s)	Actors are logged into the system.
Success End Condition	Actors are able to log into the system with the newly changed password
Failed End Condition	Actors are still able to log into the system with their old password
Step(s)	<ol style="list-style-type: none"> Actors click on the "User Profile" button on the homepage System receives the request System redirects the actors to the user profile page Actors click on the "Change Password" button System receives the request System displays the change password page Actors input the new password and click "Change Password" button System receives the information System updates the password on the database System notifies the actors about the password change activity Actors receive notification of the modified password change System returns the actors to the system homepage
Exception(s)	<ol style="list-style-type: none"> The "Change Password" button does not work and crashes the system The new password input doesn't meet the criterion of password, for example, empty string

Sequence Diagram: Change Password



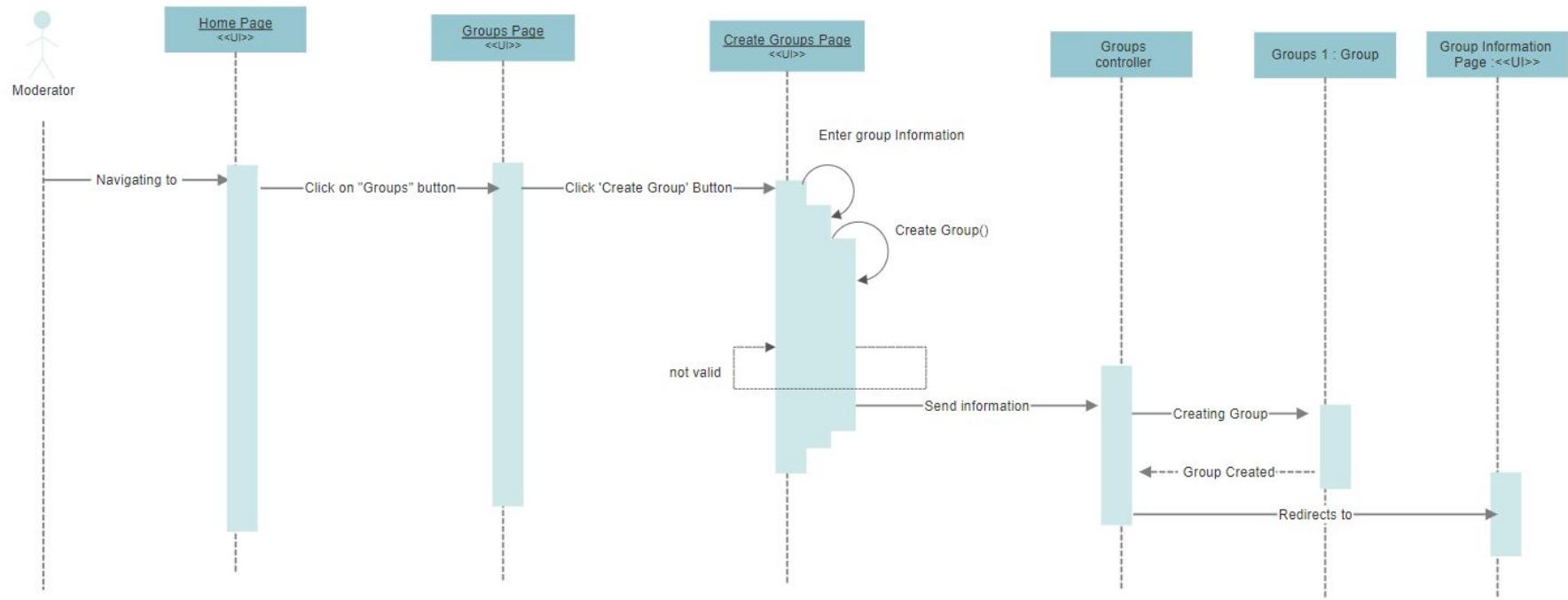
Use Case ID	USR05
Use Case Title	View History
Actor(s)	Moderator; Watchers
Summary	Actors viewed the list containing results (votes, winners, etc.) from past events
Assumption(s)	Actors can access the history page with or without participating in past events; Actors decided to view the results from all the past events that users were in
Use Case Description	The use case begins when the actors logged into their account on the system. Actors will click on the "History" button on the homepage. The use case will end when the actors get redirected to the history page.
Pre-condition(s)	Actors are logged into the system.
Success End Condition	Actors have accessed the content in the history page.
Failed End Condition	Actors are not able to access the "History" tab.
Step(s)	<ol style="list-style-type: none"> Actors click on the "History" button on the homepage System receives the request System redirects the actors to the history page If the events correspond to the actor, then the associated event history are displayed If no events correspond to the actor, then no content are displayed
Exception(s)	<ol style="list-style-type: none"> The system is down for maintenance The "History" button does not work and crashes the system

Sequence Diagram: View History



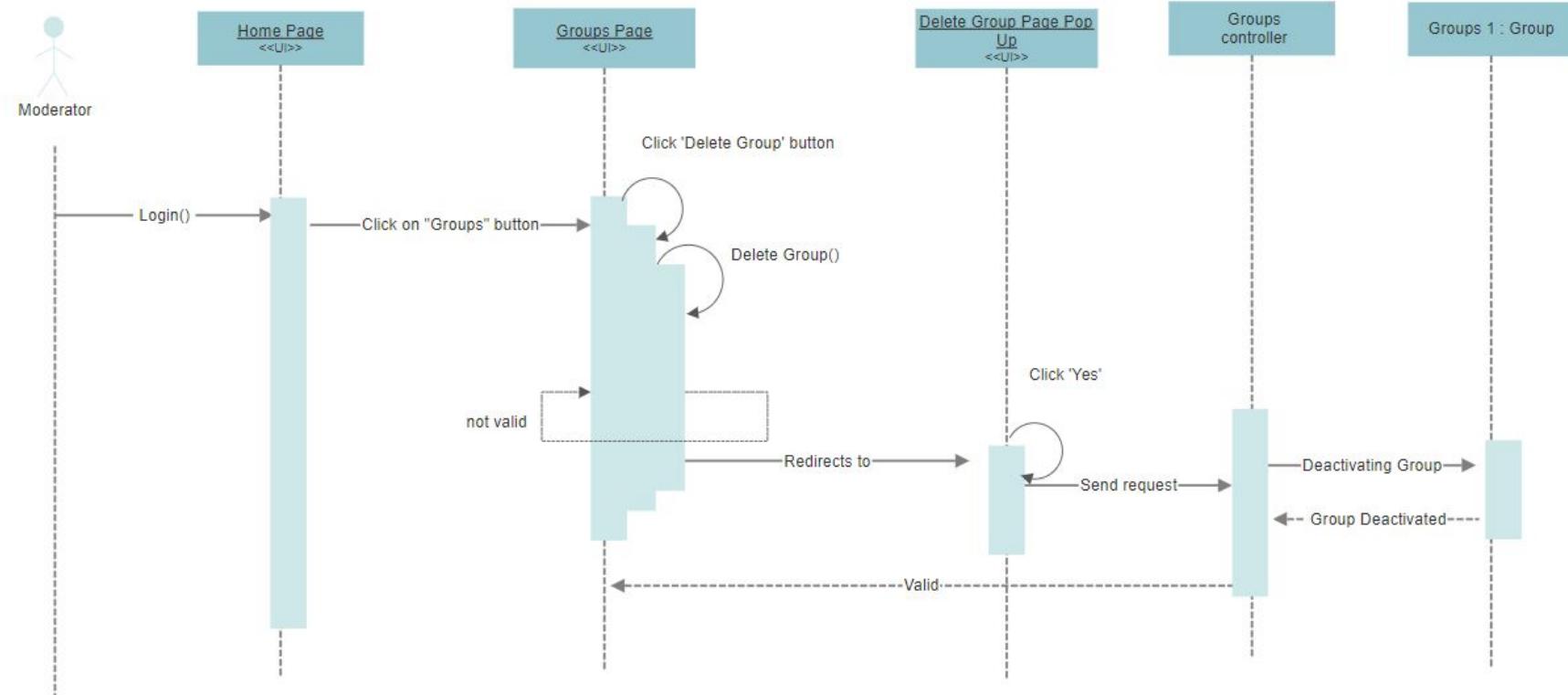
Use Case ID	USR06
Use Case Title	Create Group
Actor(s)	Moderator
Summary	Actors create movie scheduling group(s) for interested watchers.
Assumption(s)	Actors has a list of watchers in the system who are interested to be in a group
Use Case Description	The use case begins when the actor logged into the system homepage. Actors will navigate to groups page through clicking "Group" button. Actors click on "Create Group" button. Actors will input the unique "Group Name" as well as select all the interested watchers that want to be in the same group. The use case will end when the "Create Group" button is clicked.
Pre-condition(s)	Actors are logged into the system as Moderator
Success End Condition	Actors have created a group and the system successfully sends the group invitation to the interested members
Failed End Condition	Actors did not create the group
Step(s)	<ol style="list-style-type: none"> Actors click on the "Groups" button on the homepage System receives the request System displays the groups page that contains all groups details Actors click on the "Create Group" button System receives the request System redirects the actors to the "Create Group" page Actors input the unique "Group Name" for the group Actors select the interested watchers who want to be in the same group from list of all users Actors click on the "Create Group" button If the inputted group name and selected watchers satisfies the create group requirement, then proceed to the next step, else returns to step 6 System updates the group information on the database System redirects the actors to the groups page
Exception(s)	<ol style="list-style-type: none"> The system is down for maintenance The "Create Group" button does not work and crashes the system The inputted group name doesn't meet the criterion of group name, for example, empty string No watchers are selected

Sequence Diagram: Create Group



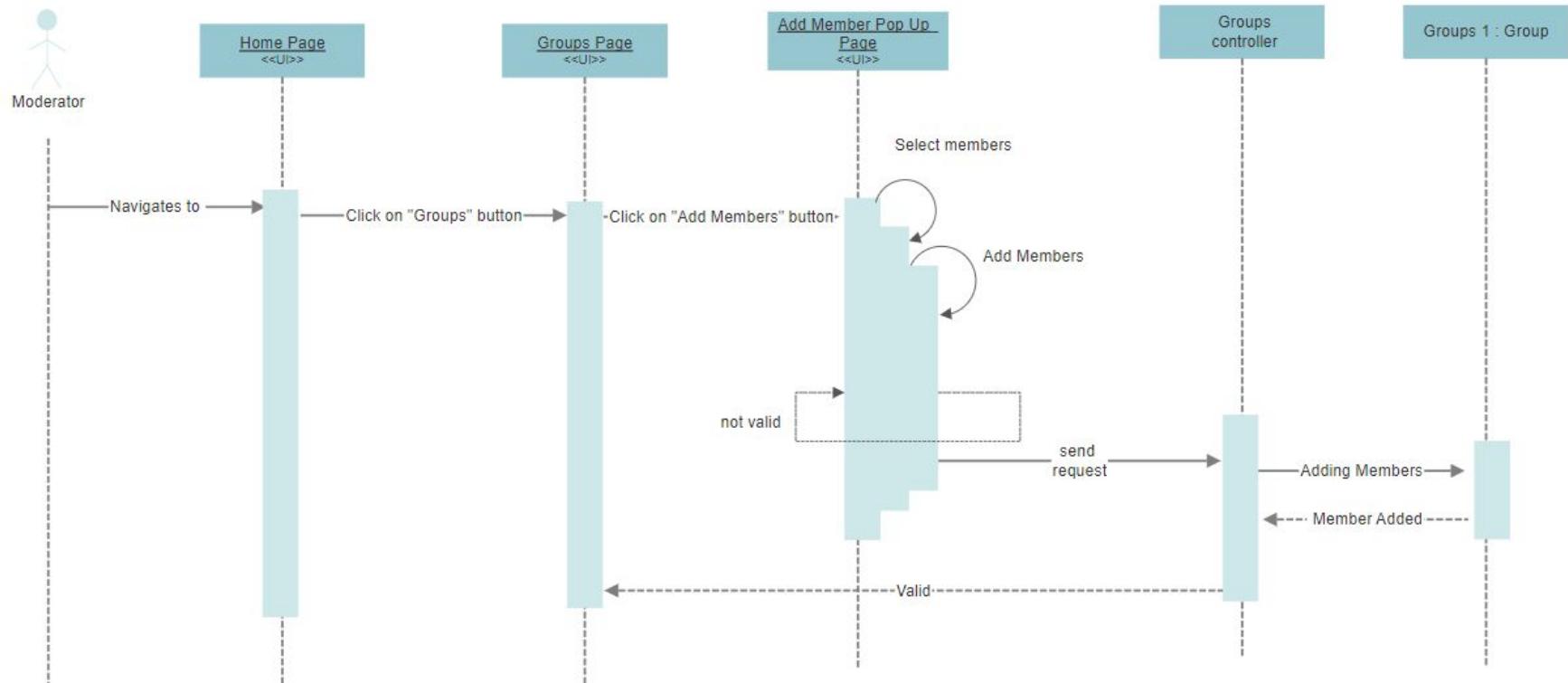
Use Case ID	USR07
Use Case Title	Delete Group
Actor(s)	Moderator
Summary	Actors delete the intended group.
Assumption(s)	Actors decides to remove the intended group from the system
Use Case Description	The use case begins when the actor logged into the system homepage. Actors click the "Group" button, which redirects the actors to the groups page. Actors click on the "Delete Group" button beside the intended group. The use case will end when actors click the "Yes" button on the delete group pop-up to confirm the deletion of the intended group.
Pre-condition(s)	Actors has previously created a group and decided to remove one of the groups
Success End Condition	System updates the intended group(s) status to inactive System does not display the intended group(s) information on the groups page Members of the intended group loses access to the intended group
Failed End Condition	Members of the intended group will continue to have access to their group The group information will still be available on the groups page The group status is still active Actors did not remove the group from the database
Step(s)	<ol style="list-style-type: none"> Actors click on the "Groups" button on the homepage System receives the request System displays the groups page that contains all groups details Actors clicks the "Delete Group" button beside the intended group System receives the request System displays the delete group pop-up Actors click the "Yes" button to confirm the deletion of the intended group System updates the status of the selected group to be inactive System redirects the actors to the groups page
Exception(s)	<ol style="list-style-type: none"> System does not display the delete group button on the homepage The system is down for maintenance The "Delete Group" button does not work and crashes the system The updates on the database do not work

Sequence Diagram: Delete Group



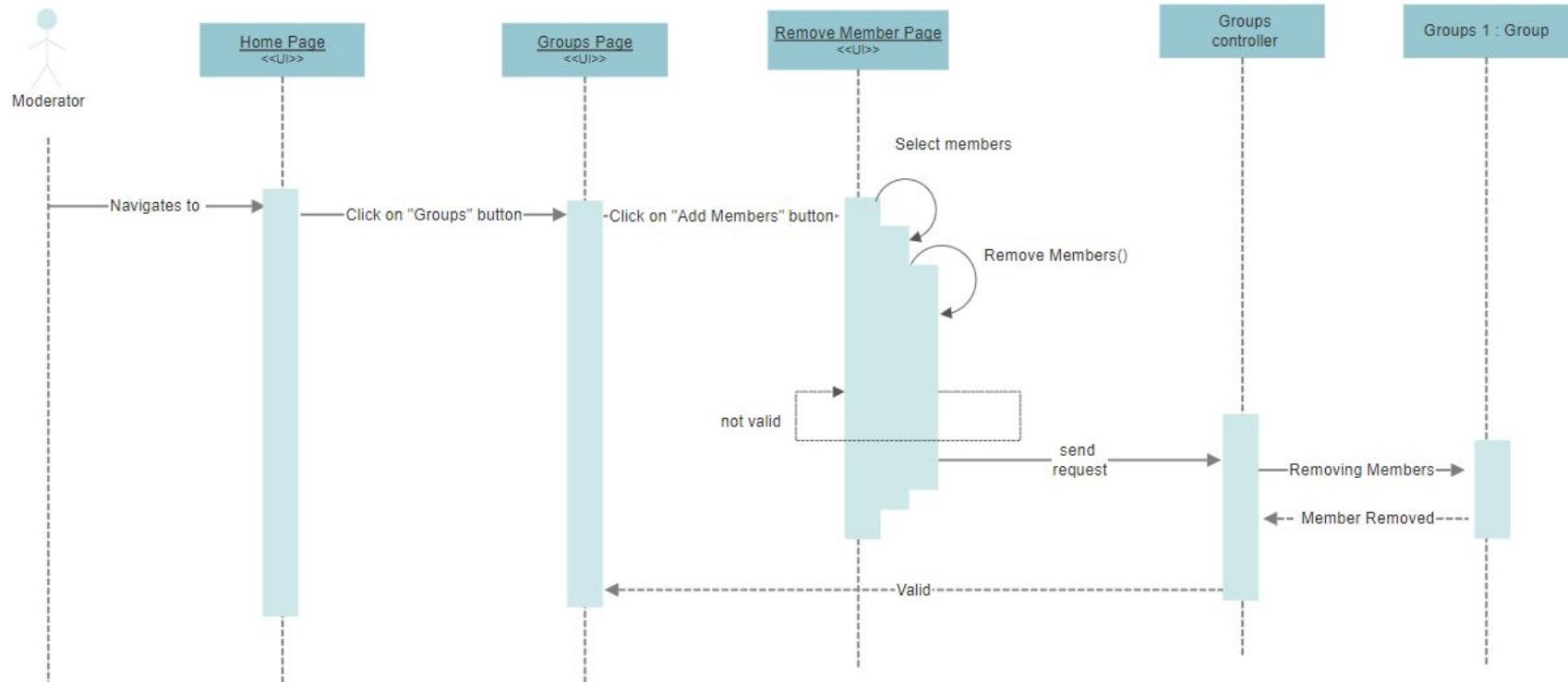
Use Case ID	USR08
Use Case Title	Add Member
Actor(s)	Moderator
Summary	Actors add new watchers to the intended group.
Assumption(s)	Actors know members who wants to be part of the previously created group
Use Case Description	The use case begins when the actor logged into the system homepage. Actors click on the "Group" button, which redirects the actors to the groups page. Actors click on the "Add Member" button beside the intended group. Actors select the watchers who should be added to the group. The use case will end when the "Add Member" button is clicked for the intended group.
Pre-condition(s)	Actors have created group(s) and decided to add watchers to the group
Success End Condition	New watchers are added to the intended group; The newly added watchers will gain access to the group
Failed End Condition	The group will not have new watchers added to the group
Step(s)	<ol style="list-style-type: none"> Actors click on the "Groups" button on the homepage System receives the request System displays the groups page that contains all groups details Actors clicks the "Add Member" button beside the intended group System receives the request System displays the add member page Actors select the interested watchers who want to be added to the group Actors click on "Add Member" button System updates the members of the selected group on the database System redirects the actors to the groups page
Exception(s)	<ol style="list-style-type: none"> System does not display the "Group" button on the homepage The system is down for maintenance The "Add Button" button does not work and crashes the system The updates on the database do not work No new watchers are selected

Sequence Diagram: Add Member



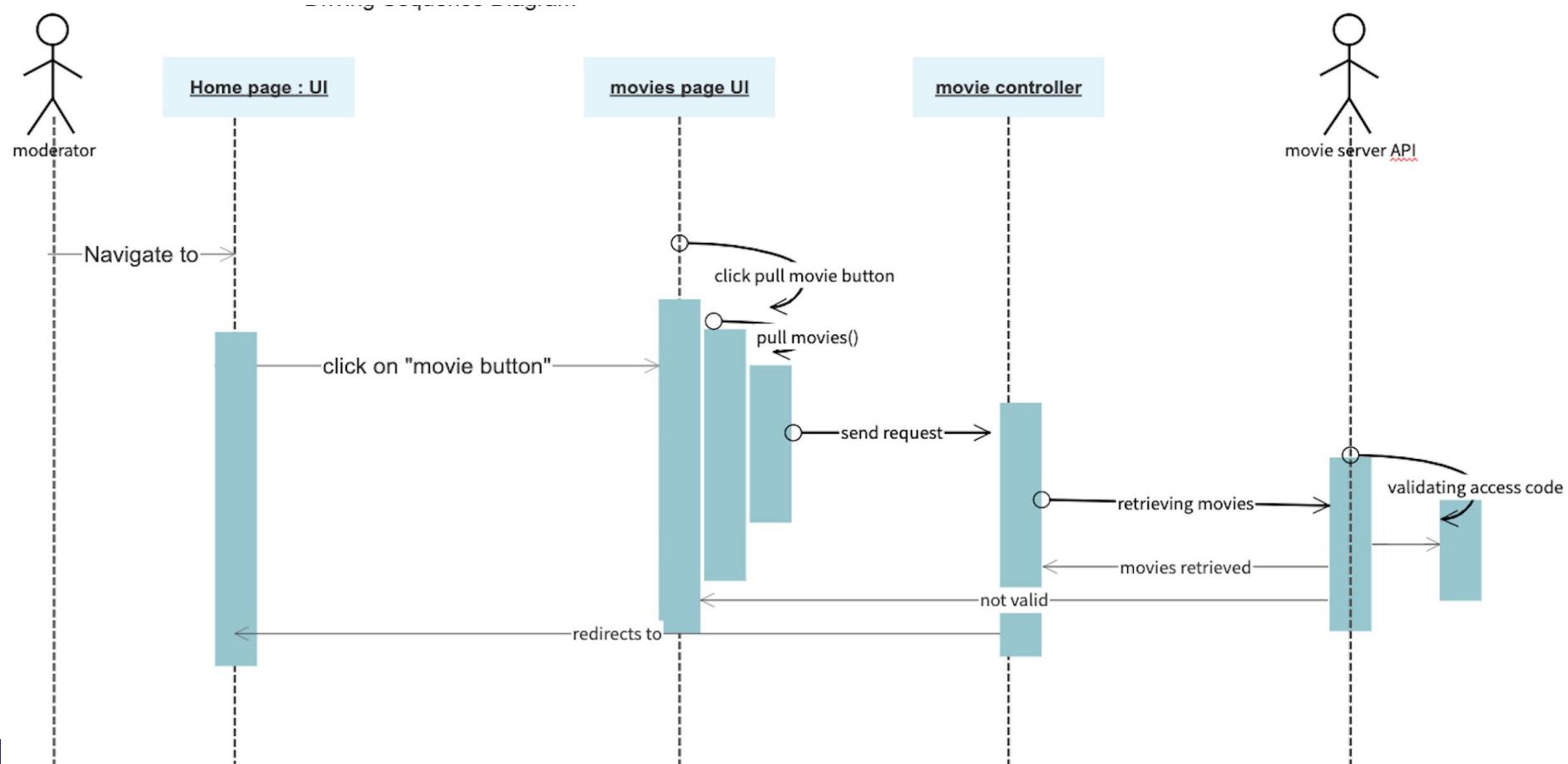
Use Case ID	USR09
Use Case Title	Remove Member
Actor(s)	Moderator
Summary	Actors remove watchers from the intended group.
Assumption(s)	Actors know members who wants to leave their group
Use Case Description	The use case begins when the actor logged into the system homepage. Actors click on the "Group" button, which redirects the actors to the groups page. Actors click on the "Remove Member" button beside the intended group. Actors select the watchers who should be removed from the group. The use case will end when the "Remove Member" button is clicked for the intended group.
Pre-condition(s)	Actors have created group(s) and decided to remove watchers from the group; There is a list of members who no longer wants to remain in their group
Success End Condition	Watchers who wants to leave their group were removed from their group; Those watchers no longer have access to the group that they were removed from
Failed End Condition	Watchers who wants to leave their group were not removed from their group; Those watchers still have access to the group that they want to leave
Step(s)	<ol style="list-style-type: none"> Actors click on the "Groups" button on the homepage System receives the request System displays the groups page that contains all groups details Actors clicks the "Remove Member" button beside the intended group System receives the request System displays the remove member page Actors select the watchers who want to leave the group Actors click on "Remove Member" button System updates the members of the selected group on the database System redirects the actors to the groups page
Exception(s)	<ol style="list-style-type: none"> System does not display the "Group" button on the homepage The system is down for maintenance The "Remove Button" button does not work and crashes the system The updates on the database do not work No watchers are selected

Sequence Diagram: Remove Member



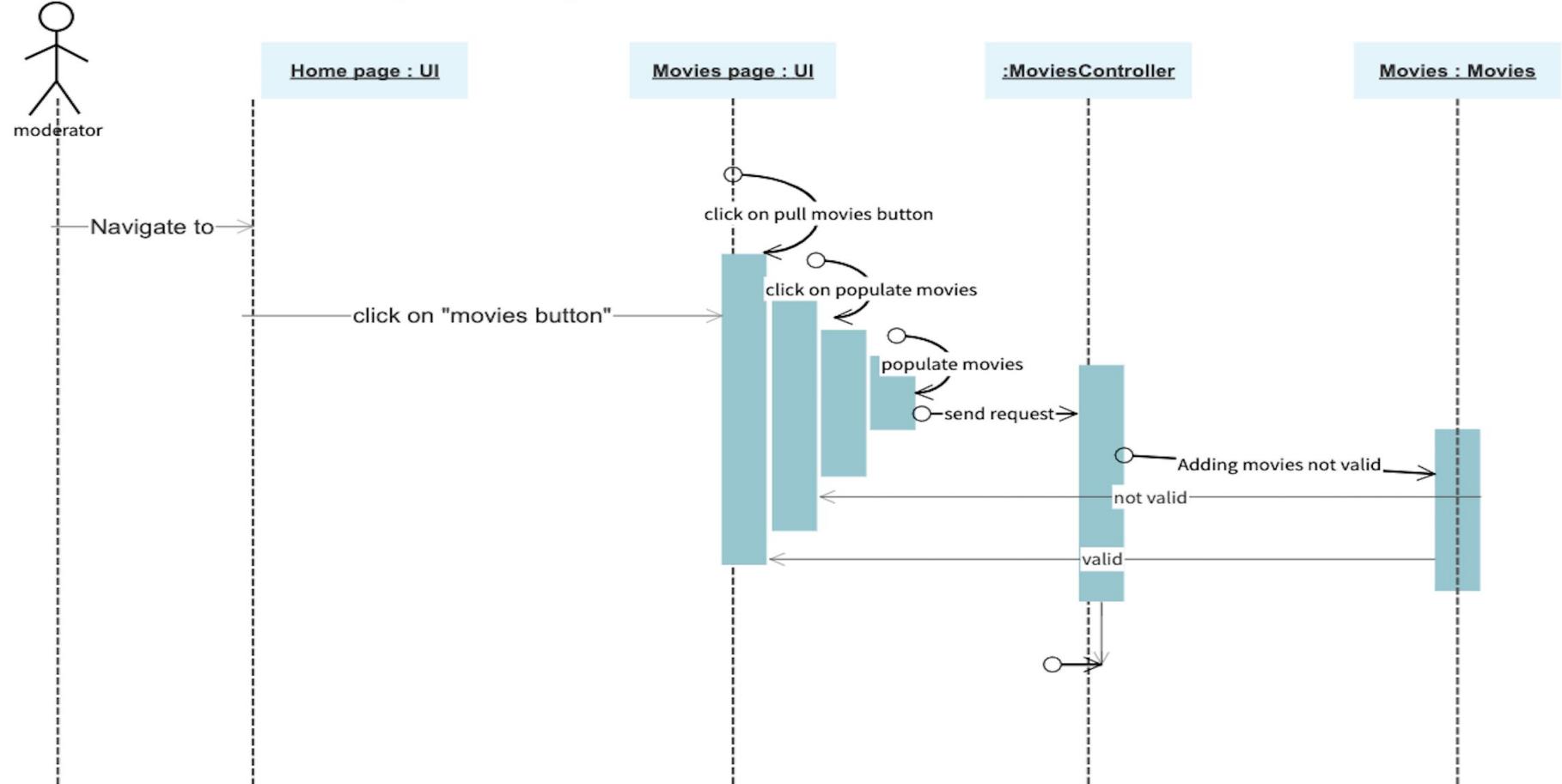
Use Case ID	USR10
Use Case Title	Pull Movies
Actor(s)	Moderator; Movie Server
Summary	Actors pull a list of movies and its associated information, like trailer links and review links from the intended movie server API
Assumption(s)	Actors has the access to a movie server that contains a list of movies and its associated information that the actors want to load into the system database
Use Case Description	The use case begins when the actor logged into the system homepage. Actors click on the "Movie" button, which redirects the actors to the movies page. Actors click on the "Pull Movies" button to pull a list of movies from the associated movie server API. The use case will end when the movies page displays a list of movies and their associated information in a VIEW format.
Pre-condition(s)	Actors have logged into the system as Moderator; Actors have the access key to pull the required information from the associated movie server
Success End Condition	Actors have retrieved the list of movies and its associated information; The system successfully display the resulting list of movies and its information in a VIEW format on the movies page
Failed End Condition	The system displays an error; No movies information are loaded into the VIEW format for display
Step(s)	<ol style="list-style-type: none"> Actors click on the "Movie" button on the homepage System receives the request System displays the movies page Actors click on the "Pull Movies" button System calls the external movie server API with access token Movie server verifies the access token Movie server returns a list of movies and its associated information System receives the information and places it into a temporary table System creates a VIEW of the received data for display on the movies page
Exception(s)	<ol style="list-style-type: none"> System does not display the "Movie" button on the homepage The system is down for maintenance The "Pull Movies" button does not work and crashes the system The creation of VIEW has problem The access key did not match the external server requirement The internet connection is not good enough to retrieve the information

Pull movies



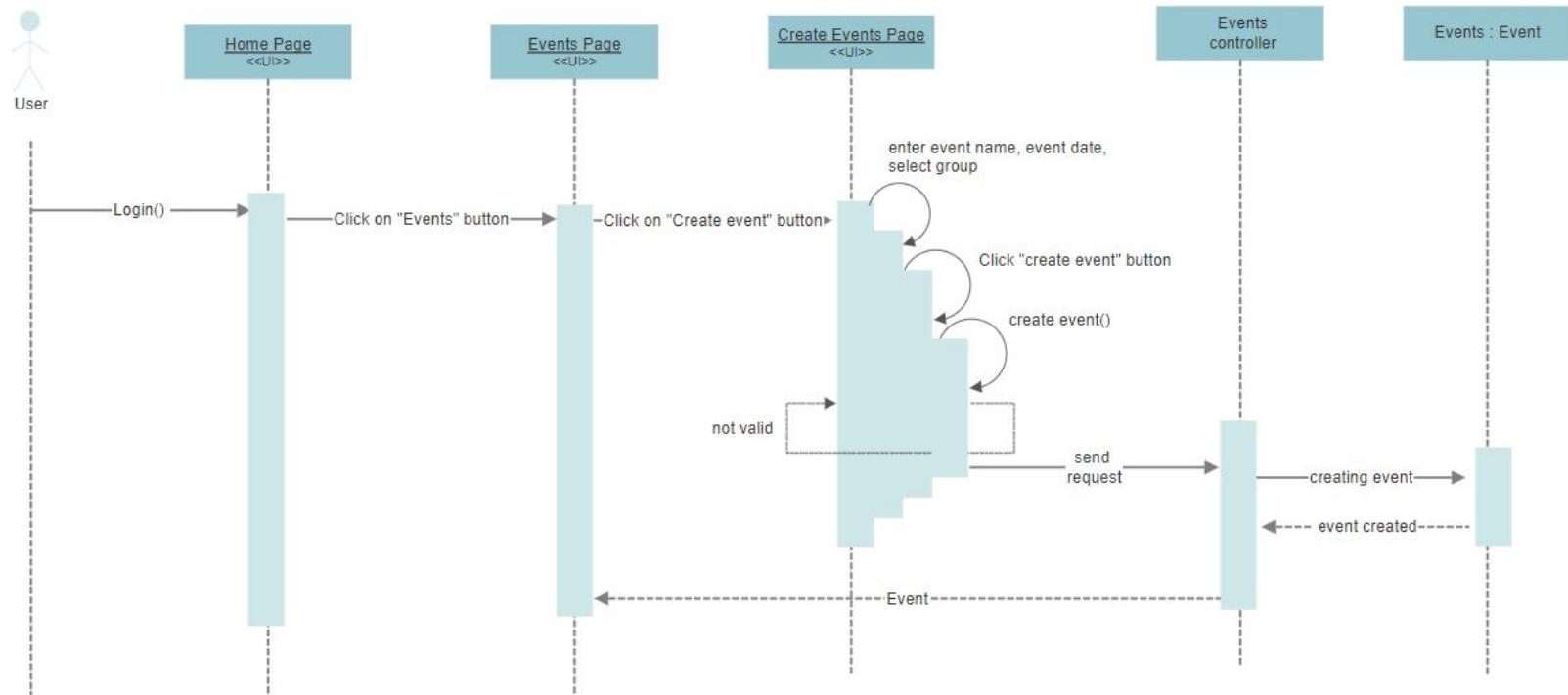
Use Case ID	USR11
Use Case Title	Populate Movies
Actor(s)	Moderator
Summary	Actors update the database with the pulled lists of movie data; These movie lists get updated on the movies page for Watchers
Assumption(s)	Actors wants to update the database with the updated movie data that was pulled from the server
Use Case Description	The use case begins when the actor successfully pulled the most recent movies data from the movie server. System will display the resulting list of movies on the movies page in the VIEW format. The use case will end when the actors click on the "Populate Movies" button after confirming that its content is in the right format and that the database was updated with the new list of movie details.
Pre-condition(s)	Actors have successfully pulled the movie data from the movie server and that the pulled content is in the right format as displayed on the VIEW table.
Success End Condition	Actors have populated the most recent movie data on the database; The newly populated movies are now available for displayed the movies page
Failed End Condition	The system displays an error; The new movie details were not updated on the database
Step(s)	<ol style="list-style-type: none"> Actors click "Pulled Movies" button System displayed the resulting pulled data in the VIEW table format Actors verify the correctness of the pulled data If the data format corresponds to the requirements, then continue to the next step, otherwise return to step 1 Actors clicked on the "Populate Movies" button System receives the request System redirects the actors to the homepage
Exception(s)	<ol style="list-style-type: none"> System does not display the "Movie" button on the homepage The system is down for maintenance The "Populate Movies" button does not work and crashes the system The updates on the database fail System couldn't display the pulled dat on the VIEW table for verification

Populate movie



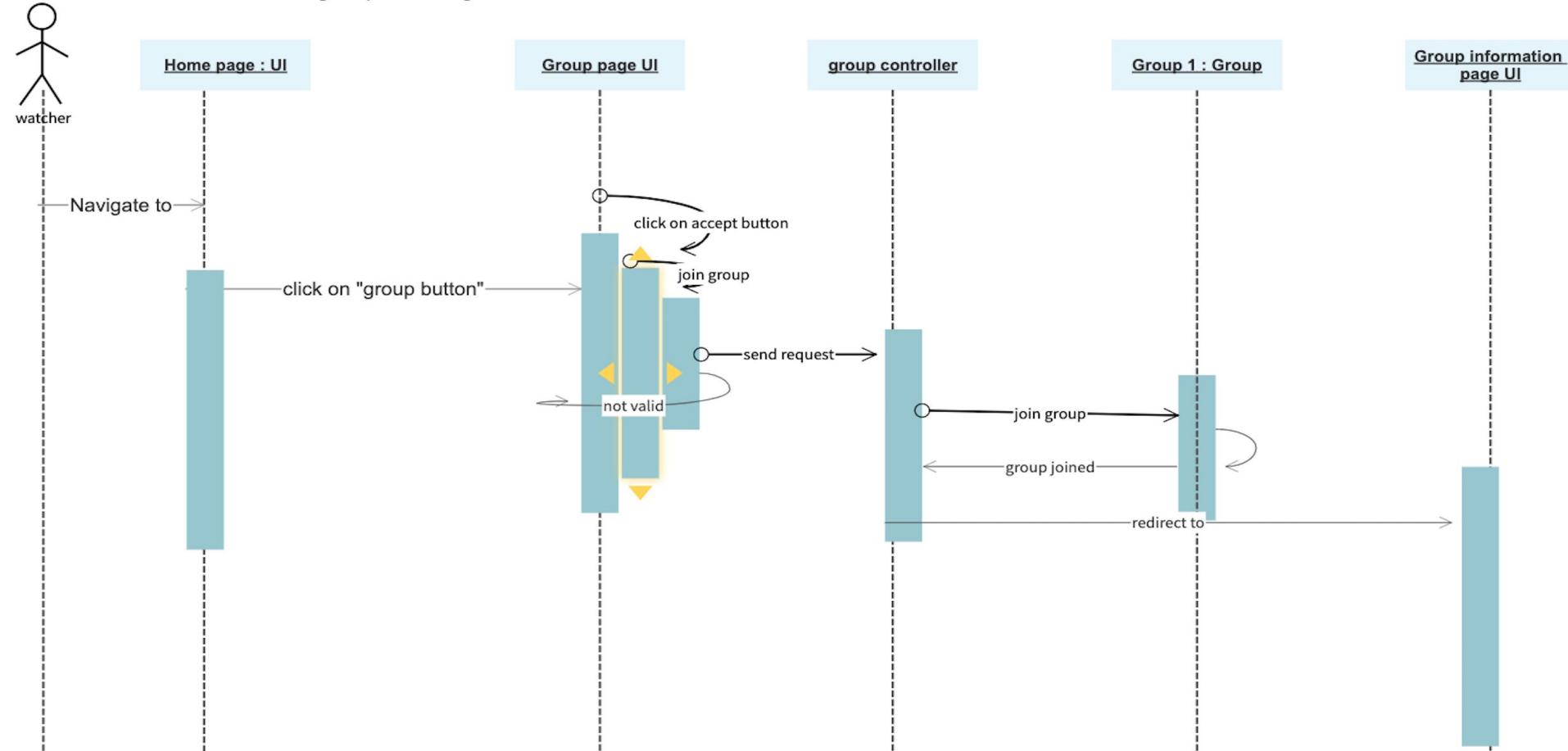
Use Case ID	USR12
Use Case Title	Create Event
Actor(s)	Moderator
Summary	Actors create movie watching events for the intended group for specific date
Assumption(s)	Actors can only create one event for any group at any particular time; The voting event will begin the moment the event is created and the voting period will end two days before the initial specified scheduled movie watching date
Use Case Description	The use case begins when the actor logged into the system homepage. Actors clicked on the "Event" button, which redirects the actors to the events page. Actors click on the "Create Event" button. Actors would select the group that the event should be created for. Actors will select the date of the movie. The use case will end when the actors click on the "Create Event" button and the system creates the event for the intended group.
Pre-condition(s)	Actors know in advance the date that which the group members are all available to watch the movie together; Actors have previously updated the movies data on the database; The movies page displays the updated movie information The database contains at least 1 group
Success End Condition	Actors have created movie watching event for the intended group; The group members of the intended group will be allowed to vote for the event
Failed End Condition	The system displays an error; The movie event was not created for the intended group
Step(s)	<ol style="list-style-type: none"> Actors click on the "Event" button on the homepage System receives the request System displays the events page Actors click on the "Create Event" button System receives the request System displays the create event page Actors input the event name Actors select the group to which the event will be created for Actors input the movie watching date Actors click on the "Create Event" button System receives the inputted information System verifies if the inputted information meets the requirement for creating the event If the information are met the standard of "Create Event", then proceed to the next step, otherwise returns to step 6 System redirects the actors to the events page
Exception(s)	<ol style="list-style-type: none"> System does not display the "Event" button on the homepage The "Create Event" button does not work and crashes the system The inputted information does not meet the requirement for creating event The inputted date has already past The group has already have 1 event created in the same period of time

Sequence Diagram: Create Event



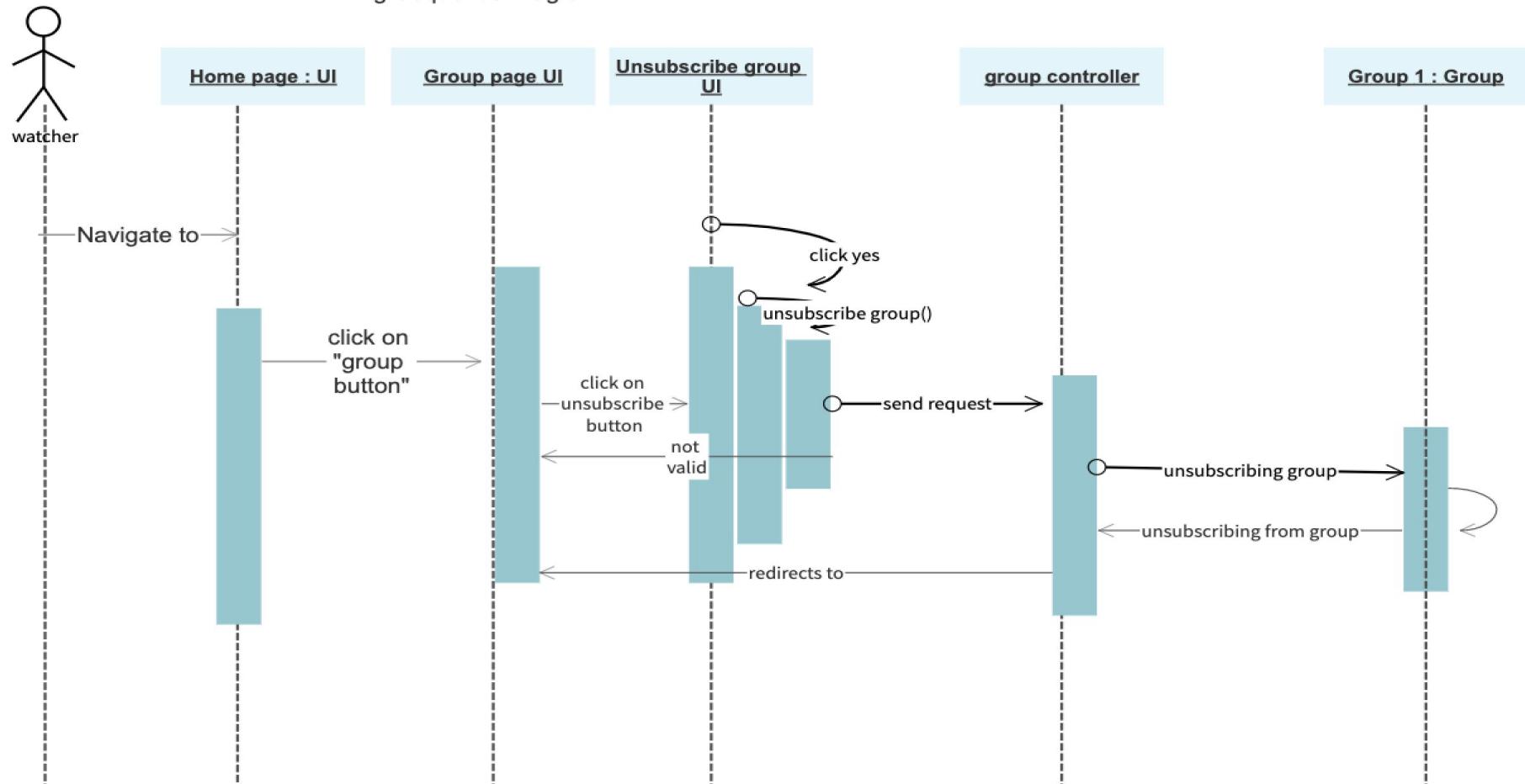
Use Case ID	USR13
Use Case Title	Join Group
Actor(s)	Watchers
Summary	Actors accept the invitation to join a group and become members of that group
Assumption(s)	Actors want to be part of the assigned group.
Use Case Description	The use case begins when the actor logged into their email after receiving the notification about the group invitation. Actors will navigate to the email and click the link that was inside the email, which will direct them to the system homepage. Actors will choose the "Accept" button beside the group under notification. The use case will end when the actors are redirected to the group page and the group that the actors are being assigned to are displayed there.
Pre-condition(s)	Actors were invited to join a group that was assigned by the Moderator; Actors were notified of the activity;
Success End Condition	New group members are added to the group; Members that were newly added to the group also gain access to the events
Failed End Condition	Actors are not able to become members of the group
Step(s)	<p>1. Actors receive notification about the group invitation 2. Actors access the email and click on the link that redirects the actors to the system homepage 3. Actors logged into the system homepage</p> <p>Method 1)</p> <p>4. Actors click on the "Accept" button beside the group invitation from the intended group under the notification section 5. System receives the request 6. System updates the group information on the database 7. System displays the group information page</p> <p>Method 2)</p> <p>8. Actors click on the "Group" button on the homepage 9. System receives the request 10. System displays the groups page 11. Actors click on the "Accept" button beside the group invitation from the intended group 12. System receives the request 13. System updates the group information on the database 14. System redirects the actors to the group information page</p>
Exception(s)	<p>1. System does not display the "Group" button on the homepage 2. System does not display the notification of the group invitation 3. The group invitation email was not delivered to the actors 4. Actors do not wish to accept the group invitation. 5. System does not display the join group button on the homepage for users 6. The updates on the system fail</p>

Join group



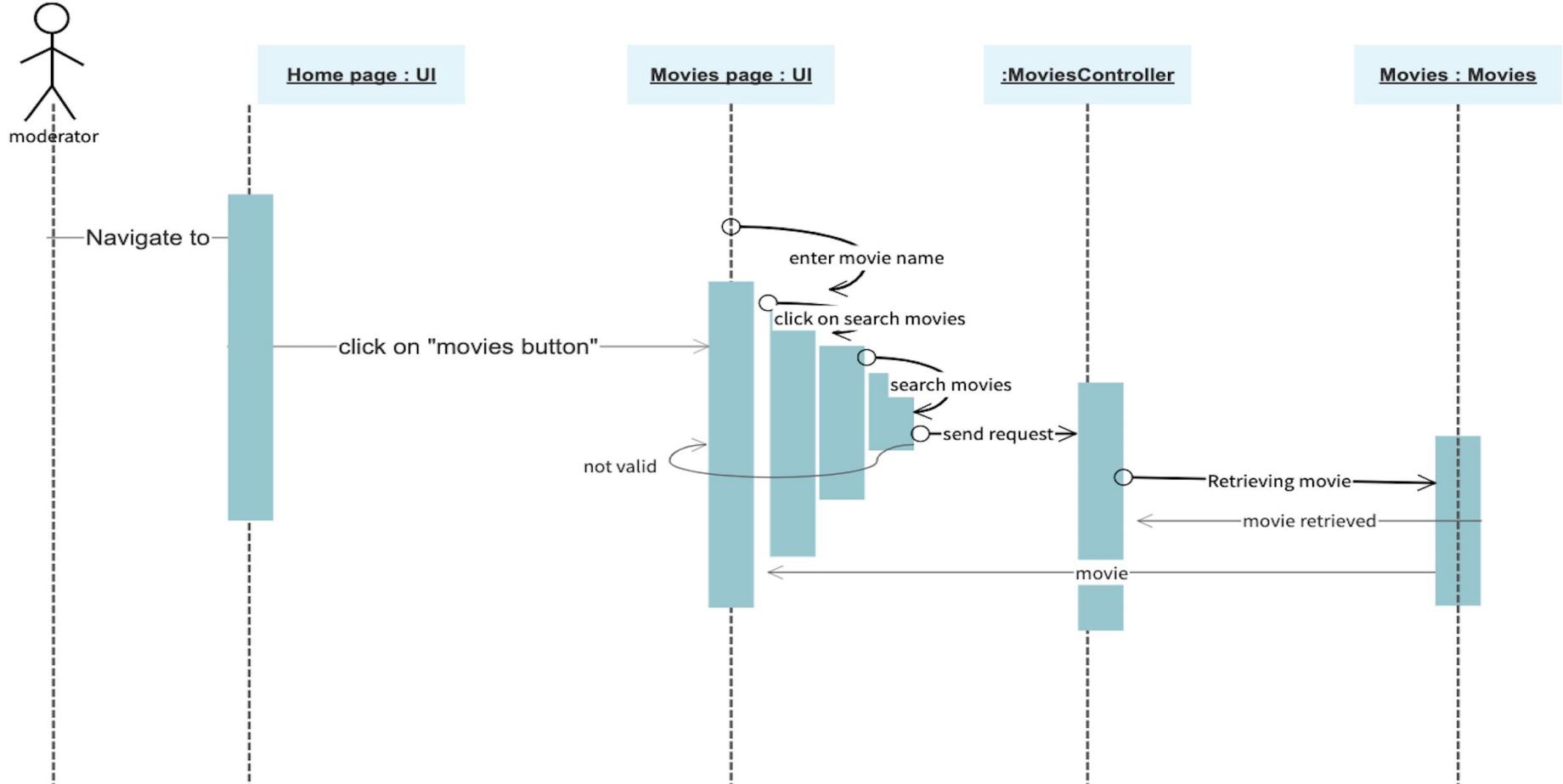
Use Case ID	USR14
Use Case Title	Unsubscribe Group
Actor(s)	Watchers
Summary	Actors leave and lose access to their current group
Assumption(s)	Actors decides to leave their current group
Use Case Description	The use case begins when the actor logged into the system homepage. Actors click on the "Group" button, which redirects the actors to the groups page. The use case will end when the actors click on the "Unsubscribe Group" button beside the intended group.
Pre-condition(s)	Actors are part of the intended group
Success End Condition	Actors have exited from their group; The group updates the database and removes the access for that actors
Failed End Condition	Actors are not able to exit from the intended group
Step(s)	<ol style="list-style-type: none"> Actors click on the "Group" button on the system homepage System receives the request System displays the the groups page Actors click on the "Unsubscribe Group" button beside the intended group System receives the request System displays the "Unsubscribe Group Confirmation" pop-up Actors click on the "Yes" button to confirm the unsubscription System updates the groups information on the database System redirects the actors to the groups page
Exception(s)	<ol style="list-style-type: none"> System does not display the "Group" button on the homepage System does not display the "Unsubscribe Group" button System does not display the "Unsubscribe Group Confirmation" pop-up The updates on the system fail

Unsubscribe group



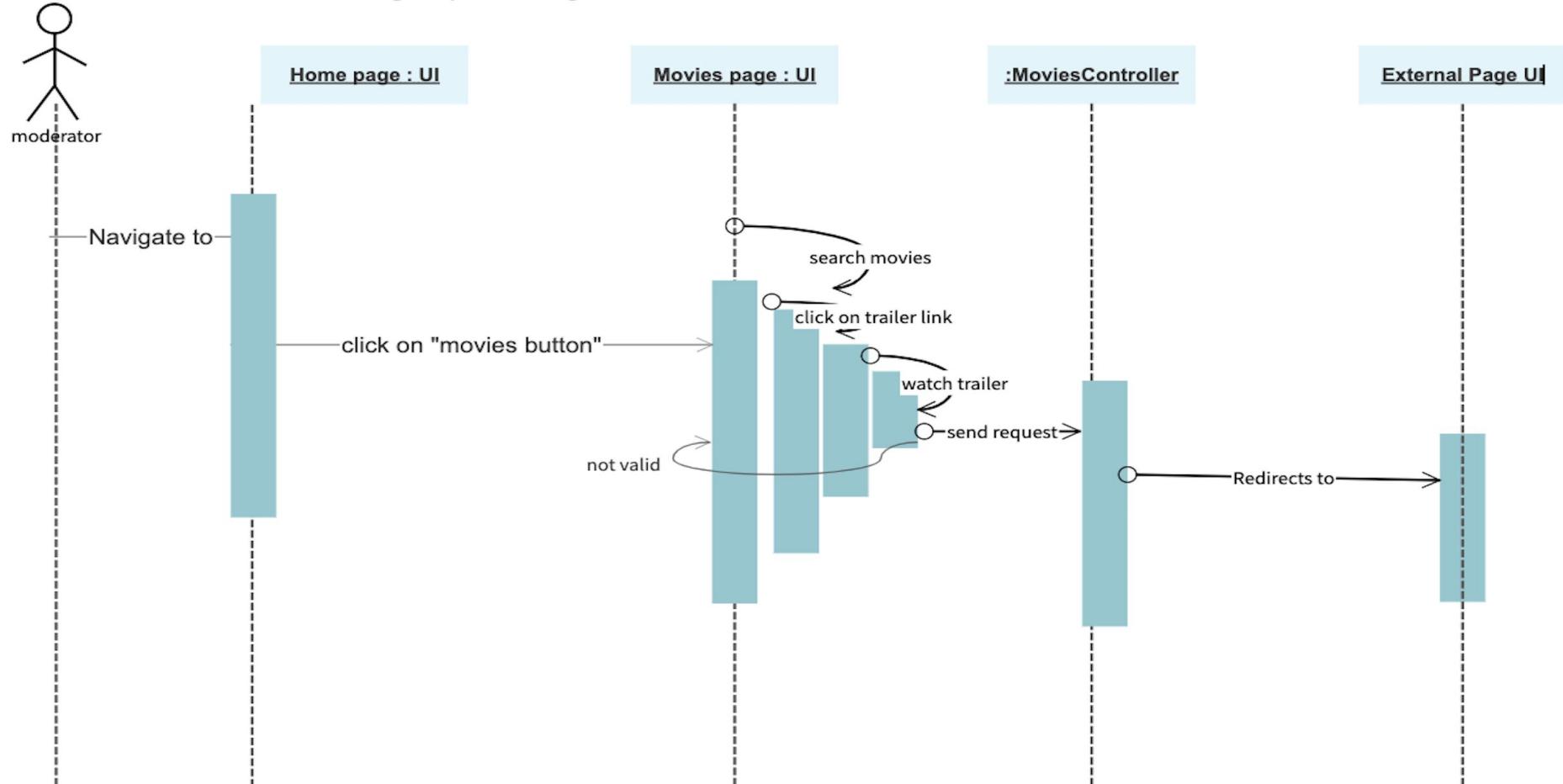
Use Case ID	USR15
Use Case Title	Search Movies
Actor(s)	Watchers
Summary	Actors search for the movies on the movies page
Assumption(s)	Actors wants to know more about the movies on the movies page
Use Case Description	The use case begins when the actor logged into the system homepage. Actors click on the "Movie" button, which redirects the actors to the movies page. Actors will input the movie name that they are looking for into the search box. Actors click on the "Search movies" icon beside the search box. The use case will end when the system displays the results of the search on the movies page.
Pre-condition(s)	Actors are logged into the system as Watchers; There has to be a list of movies available in the system database
Success End Condition	Actors utilize the search function to search for the movies of their choice; The system displays the results of the search on the movies page
Failed End Condition	Actors are not able to utilize the search function to filter from the list of movies; The movies page does not filters according to the search terms
Step(s)	<ol style="list-style-type: none"> Actors click on the "Movie" button on the system homepage System receives the request System displays the movies page Actors input the name of the movie of interests into the search box Actors click on the "Search Movies" icon System receives the request System filters the list of movies on display according based on the searched term If the searched term matches the movie in the movies list, the movies with the associated name will be shown on display on the movies page If the searched term does not contain a match, the movies page will display an empty movie page
Exception(s)	<ol style="list-style-type: none"> System does not display the "Movie" button on the homepage System does not display the "Search Movies" icon System does not display the search box The filtering function does not work on the list of movies The search box is empty Actors misspelled the movie name

Search movie



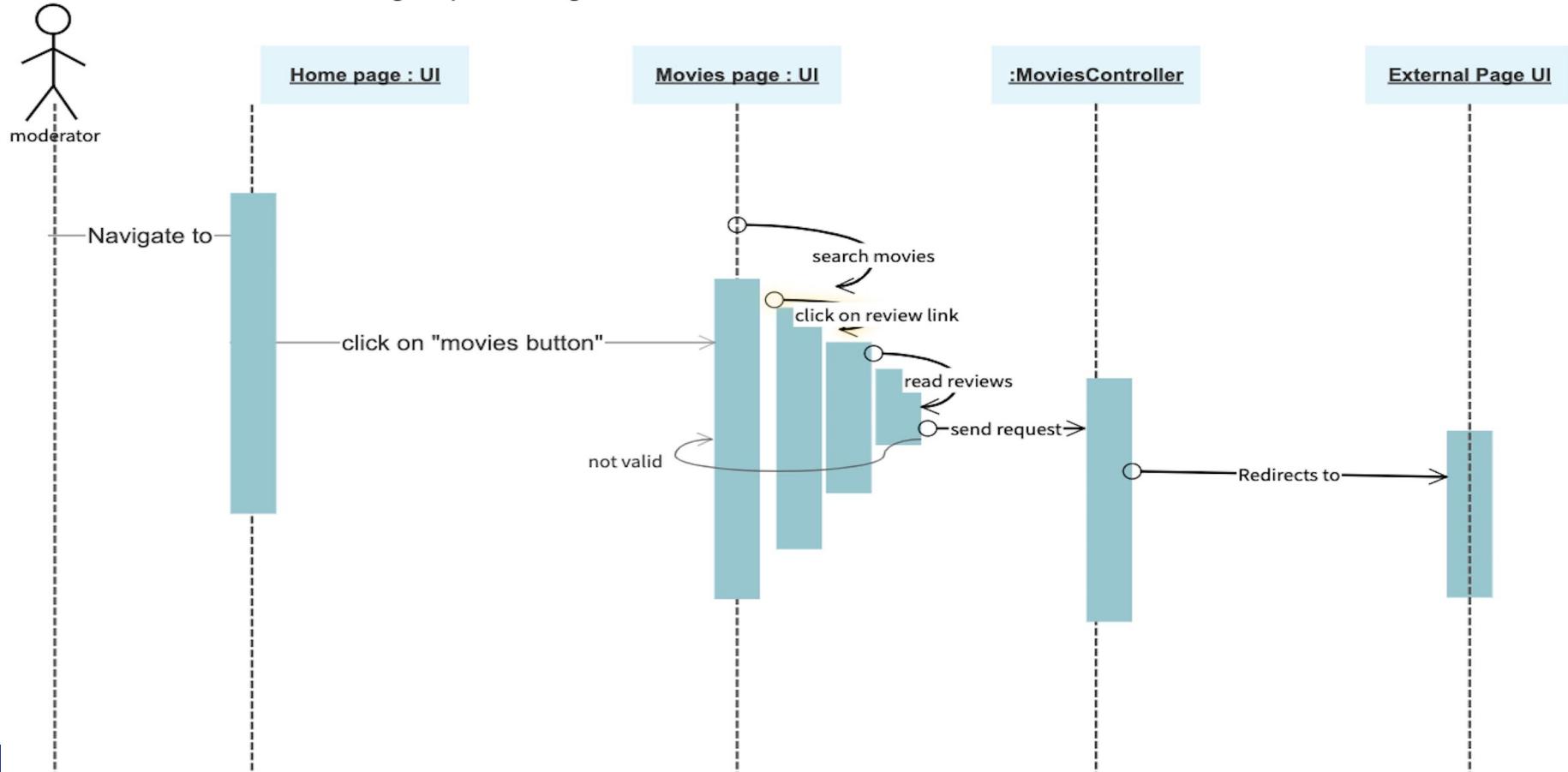
Use Case ID	USR16
Use Case Title	Watch Trailer
Actor(s)	Watchers
Summary	Actors access the link which redirects them to external page that contains the trailer of the intended movie
Assumption(s)	Actors wants to get access to the external site that contains the movie trailers of the intended movies
Use Case Description	The use case begins when the actors search for the movie on the movies page. The system displays the results of the search on the movies page. The use case will end when the actors click on the link beside the word "Trailers" and get redirected to the external link.
Pre-condition(s)	Actors searched for the movie on the movies page; There has to be a list of movies available in the system database; The trailer link must be functioning
Success End Condition	Actors get redirected to the website that contains the trailer for the searched movie
Failed End Condition	Actors are not able to access the movie trailer through the movie trailer link
Step(s)	<ol style="list-style-type: none"> Actors searched the movies on the movies page System displays the result of the search on the movie page Actors click on the link next to the word "Trailer" System redirects the actors to the website with URL that matches the link
Exception(s)	<ol style="list-style-type: none"> System does not display any movies on the movies page The searched movies information are not available The link is broken and doesn't redirect the actors to the appropriate movie trailer website

Watch trailer



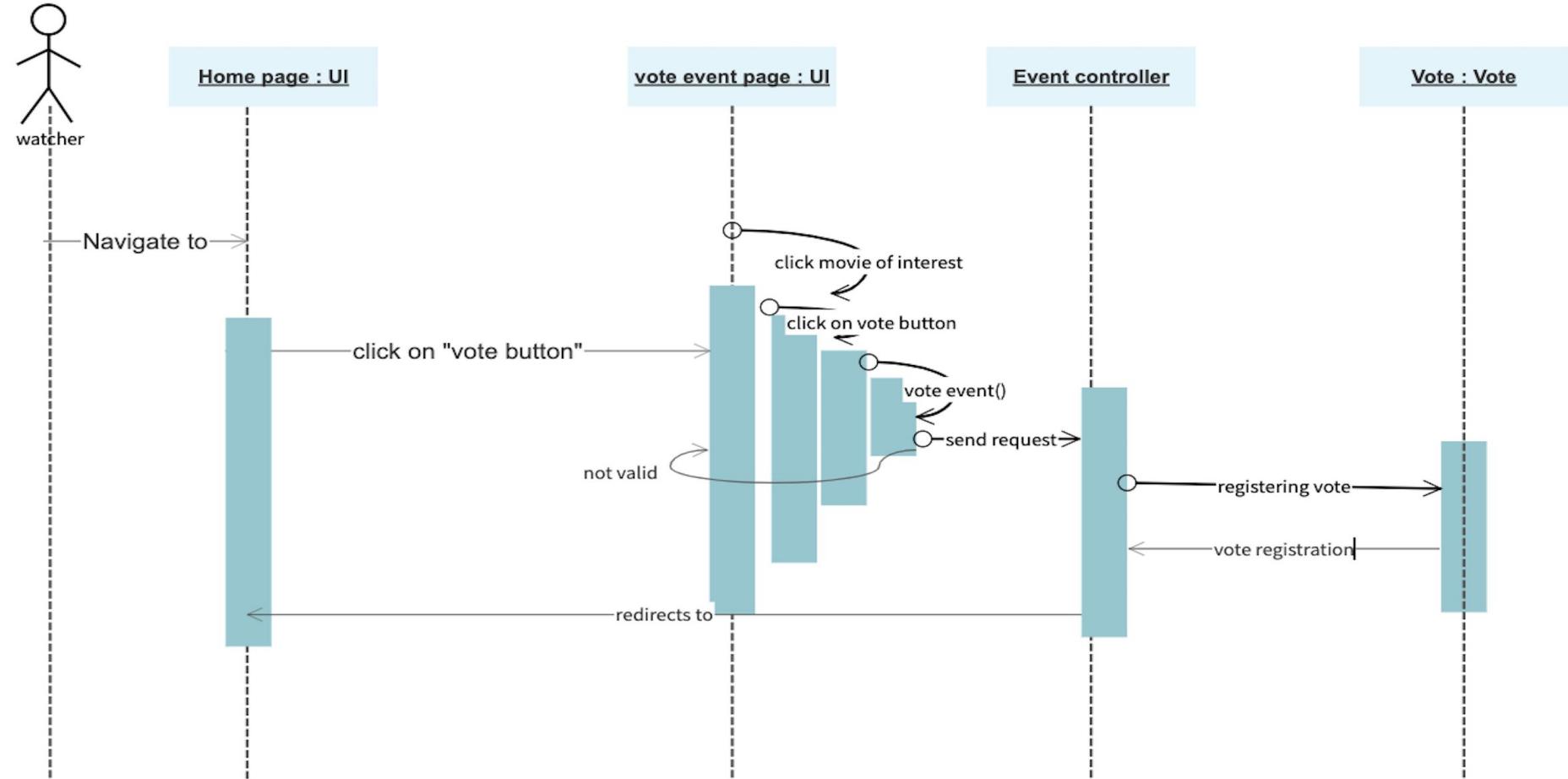
Use Case ID	USR17
Use Case Title	Read Reviews
Actor(s)	Watchers
Summary	Actors access the link which redirects them to external page that contains the reviews of the intended movie
Assumption(s)	Actors wants to get access to the external site that contains the movie reviews of the intended movies
Use Case Description	The use case begins when the actors search for the movie on the movies page. The system displays the results of the search on the movies page. The use case will end when the actors click on the link beside the word "Reviews" and get redirected to the external link.
Pre-condition(s)	Actors searched for the movie on the movies page; There has to be a list of movies available in the system database; The review link must be functioning
Success End Condition	Actors get redirected to the website that contains the reviews for the searched movie
Failed End Condition	Actors are not able to access the movie reviews through the movie reviews link
Step(s)	<ol style="list-style-type: none"> Actors searched the movies on the movies page System displays the result of the search on the movie page Actors click on the link next to the word "Review" System redirects the actors to the website with URL that matches the link
Exception(s)	<ol style="list-style-type: none"> System does not display any movies on the movies page The searched movies information are not available The link is broken and doesn't redirect the actors to the appropriate movie reviews website

Read Reviews



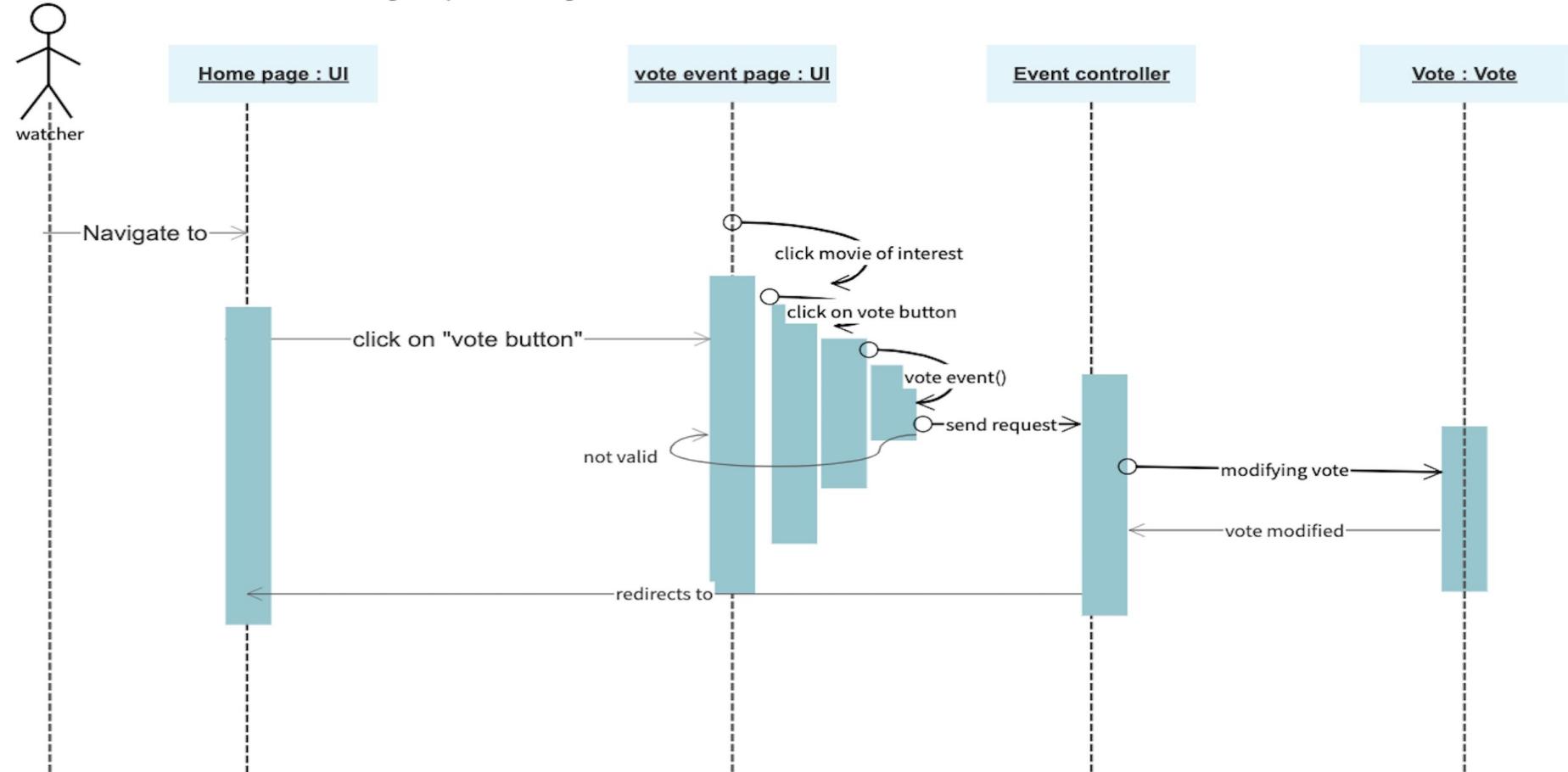
Use Case ID	USR18
Use Case Title	Vote Event
Actor(s)	Watchers
Summary	Actors cast their votes for the movie of their interest for an event on specific date created by Moderator for their group within the valid voting period
Assumption(s)	Actors have their preferences for the movies that they want to watch; The group has agreed to watch movies regularly on the same date and time; The group members will be given 1 vote each to vote on the available movies; The voting event hasn't been over
Use Case Description	The use case begins when the actors logged into the system homepage. Actors click on the "Vote" button beside the event name under the notification section, which redirects the actors to the vote event page. Actors will select the movie of interest. The use case will end when the actors click on the "Vote" button.
Pre-condition(s)	Actors received notification about the movie voting event; There has to be a list of movies available in the system database; The voting period hasn't passed
Success End Condition	Actors cast their votes on the movie of interest for the event; The event updates their votes on the system for determining the winner
Failed End Condition	Actors are not able to cast their vote
Step(s)	<ol style="list-style-type: none"> Actors are logged on to the system homepage Actors click on the "Vote" button next to the vote event System receives the request System displays the vote event page Actors select the movie of interest Actors click on the "Vote" button System receives the information System updates the information on the database for the event System redirects the actors to the system homepage with the vote button in another color that differentiating it from the vote button of the event that hasn't been voted
Exception(s)	<ol style="list-style-type: none"> System does not display any notifications on the system homepage page The "Vote" button does not function properly The updates of the database fail System does not display the "Vote" button for the vote event There are no movies available to vote

Vote Event



Use Case ID	USR19
Use Case Title	Modify Vote
Actor(s)	Watchers
Summary	Actors recast their votes for the movie of their interest on their previously casted votes within the valid voting period
Assumption(s)	Actors have their preferences for the movies that they want to watch; Actors have made a mistake for casting the previously casted vote; The old voting result for that particular event will be invalid.
Use Case Description	The use case begins when the actors logged into the system homepage. Actors click on the "Vote" button with colors (one that refers to the vote that was already been cast) beside the event name under the notification section, which redirects the actors to the vote event page. Actors will select the movie of interest. The use case will end when the actors click on the "Vote" button.
Pre-condition(s)	Actors have previously casted votes for the event; There has to be a list of movies available in the system database; The voting period hasn't passed
Success End Condition	Actors recast their most recent votes; The event updates their votes on the system for determining the winner
Failed End Condition	Actors are not able to recast their vote; The previously voted result remain unchanged on the database
Step(s)	<ol style="list-style-type: none"> Actors are logged on to the system homepage Actors click on the "Vote" button next to the previously voted event System receives the request System displays the vote event page Actors select the movie of interest Actors click on the "Vote" button System updates the information on the database for the event System redirects the actors to the system homepage with the vote button in the color that refers to voted
Exception(s)	<ol style="list-style-type: none"> System does not display any notifications on the system homepage page The "Vote" button does not function properly The updates of the database fail System does not display the "Vote" button for the vote event There are no movies available for voting

Modify Vote



Bi-Directional Traceability Matrix

Requirements	Req1	Req2	Req3	Req4	Req5	Req6	Req7	Req8	Req9	Req10	Req11	Req12	Req13	Req14	Req15	Req16	Req17	Req18	Req19
Use Cases	Total																		
Use Case 1	1 X																		
Use Case 2	1	X																	
Use Case 3	1		X																
Use Case 4	1			X															
Use Case 5	1				X														
Use Case 6	1					X													
Use Case 7	1						X												
Use Case 8	1							X											
Use Case 9	1								X										
Use Case 10	1									X									
Use Case 11	2									X	X								
Use Case 12	1											X							
Use Case 13	1												X						
Use Case 14	1													X					
Use Case 15	1														X				
Use Case 16	2														X	X			
Use Case 17	2														X		X		
Use Case 18	1																X		
Use Case 19	2																X	X	

Serial Number Required Features

- 1 The system allows all users to create an account.
- 2 The system allows all users to login.
- 3 The system allows all users to logout.
- 4 The system allows all users to change their password.
- 5 The system allows all the users to view the history.
- 6 The system allows the moderator to create a movie watcher's group.
- 7 The system allows the moderator to delete a movie watcher's group.
- 8 The system allows the moderator to add a new member to the group.
- 9 The system allows to remove a pre-existing member from the group.
- 10 The system allows the moderator to pull movies from an External API server.
- 11 The system allows the moderator to populate movies into the database.
- 12 The system allows the moderator to create a movie watching event.
- 13 The system allows the members to join the movie watcher's group.
- 14 The system allows the members to unsubscribe from the movie watcher's group.
- 15 The system allows the members to search for the movies.
- 16 The system allows the members to follow the link to watch the trailer of the movies.
- 17 The system allows the members to follow the link to read the reviews of the movies.
- 18 The system allows the members to cast their vote for a movie.
- 19 The system allows the member to modify their vote.

Serial No.	Use Cases
1	Create Account
2	Login
3	Logout
4	Change Password
5	View History
6	Create Group
7	Delete Group
8	Add Member
9	Remove Member
10	Pull Movies
11	Populate Movies
12	Create Event
13	Join Group
14	Unsubscribe Group
15	Search Movies
16	Watch Trailers
17	Read Reviews
18	Vote Event
19	Modify Vote

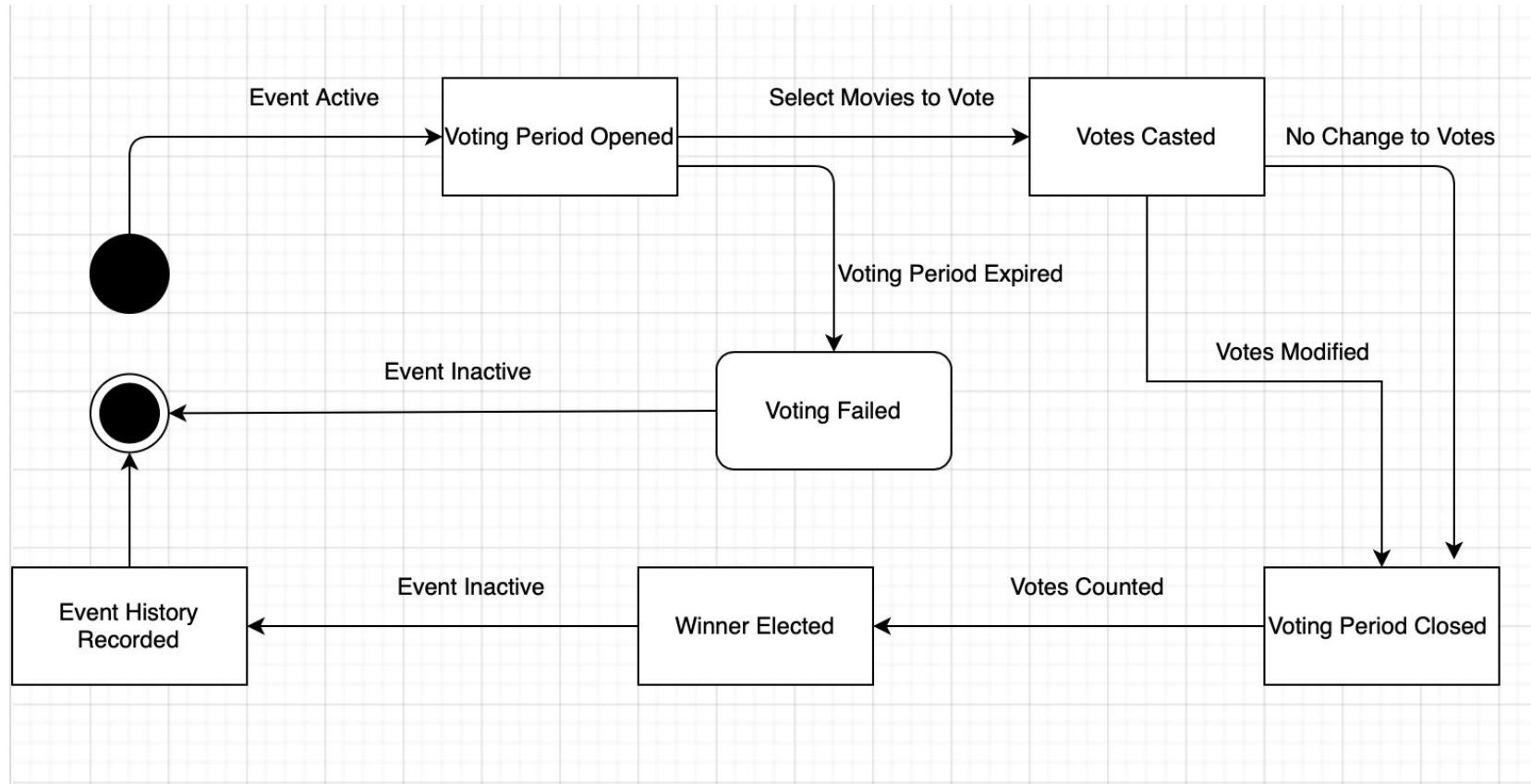
Class Diagram



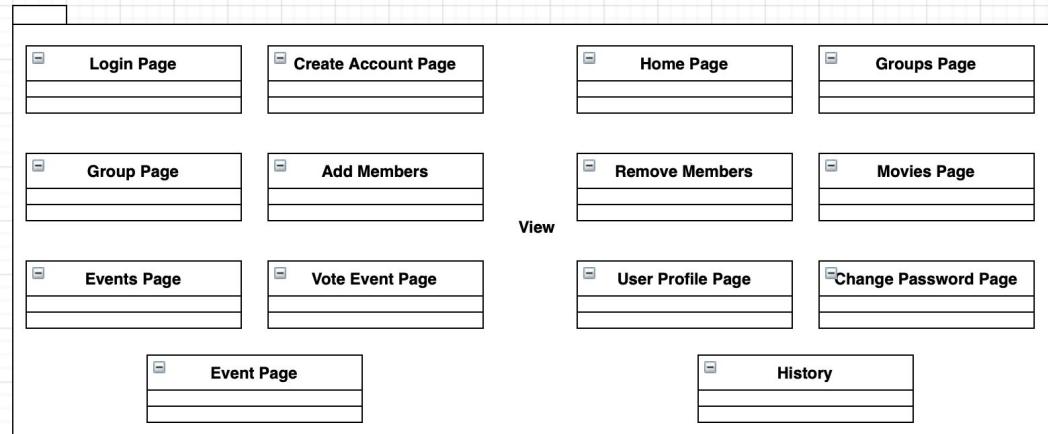
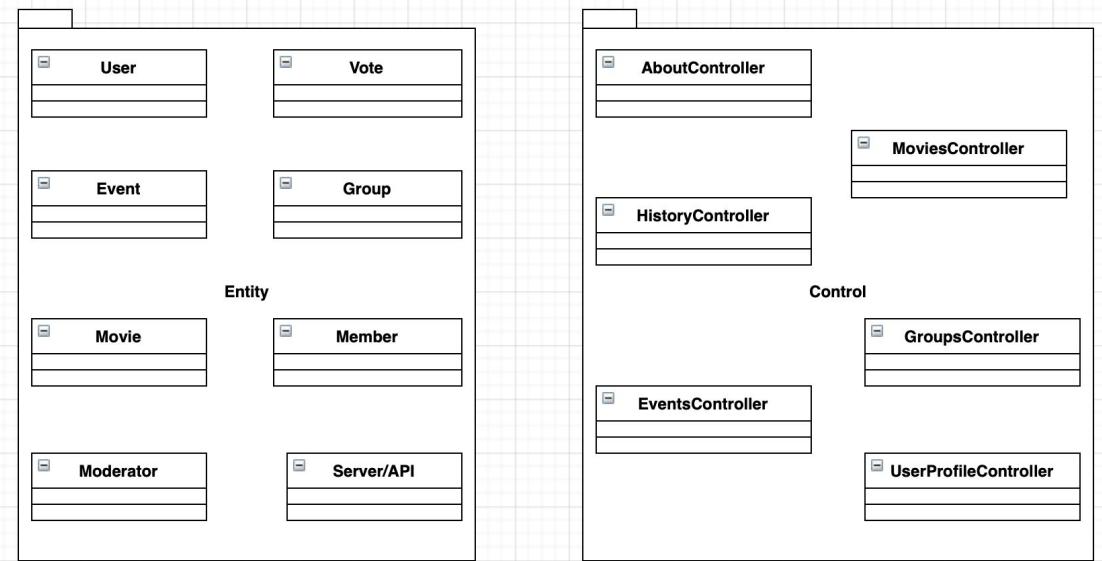
Class Description

1. User: This class provides description of superuser that contains common operations by Moderator and Watcher, like create account, log in, and view history.
2. Moderator: This class provides description of admin that operates the system, like manage groups and members, create event, and pull movies.
3. Member(Watcher): This class provides description of user that uses the system, like search movies and vote event.
4. Vote: This class provides the attributes of a vote casted by the member (watcher) of the group. The attributes contains MovieID, MemberID, EventID and Vote Date.
5. Group: This class provides the attributes of a group of which members are part of and which moderators created. The attributes contains GroupID, GroupName, MemberCount to name a few.
6. Movie: The attributes contains the attributes of a movie that has been pulled and populated into the groups with movie trailers links and review links related to the movie.
7. Server/API: This is the secondary actor that will provide the movie list with trailer/review links and will be pulled by the moderator.
8. Event: This class provides the information about the events that are created by the moderator for the members of the group to vote for movies

State Diagram (Voting)



UML Package Diagram



Activity Diagram

