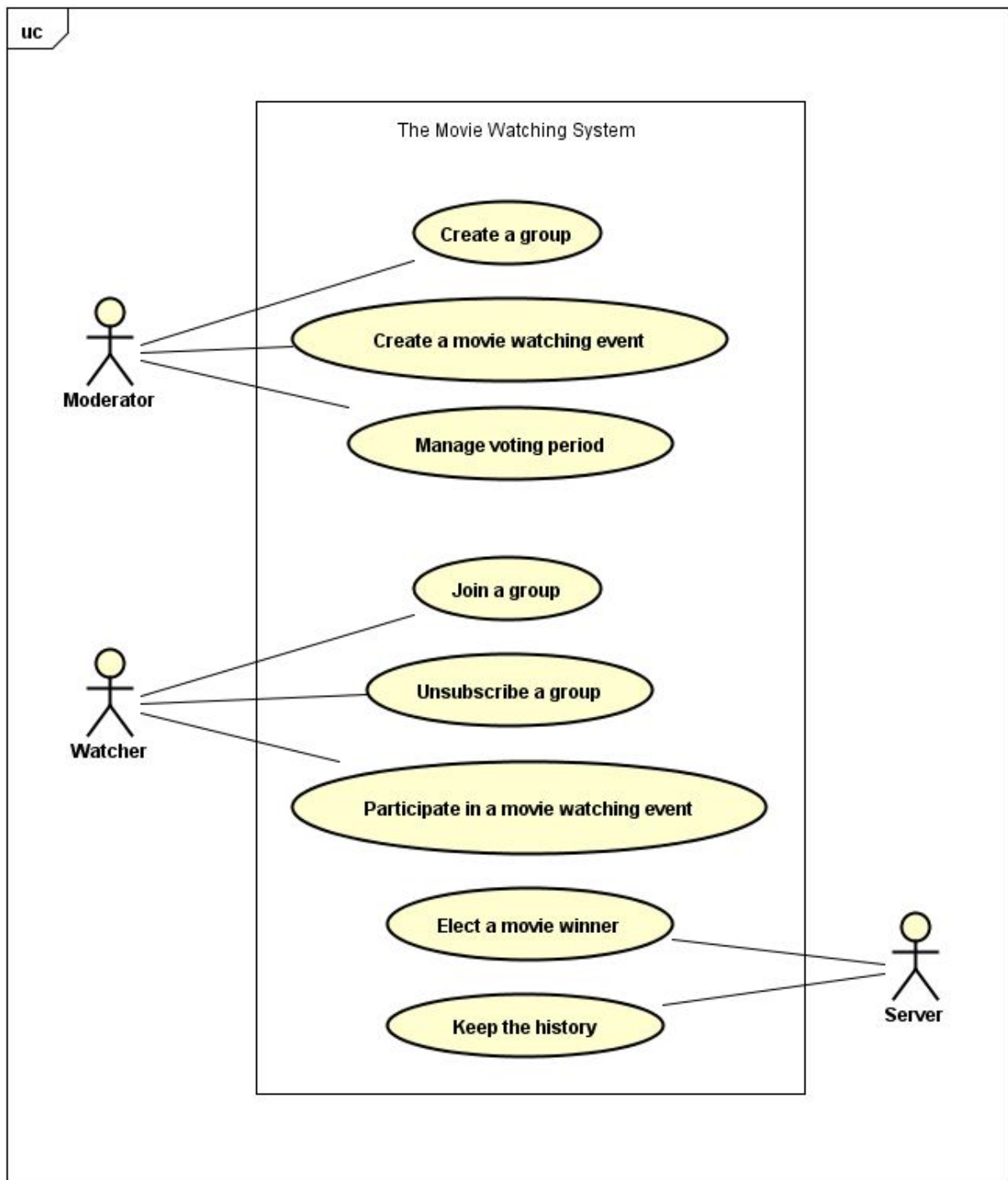# Spring-2020-A2

Group 12

Use case diagram

Use Case 1

Use Case ID: 1
Use Case Name: Create a group
Actors : Moderator
Description: The moderator first creates a movie watcher's group with a specific group name and then invites friends and families to join the group. To invite the participants, the system will send emails to people who have been invited.
Preconditions: Enter the username and password to login as a moderator.
Post conditions: The system has stored the group the moderator just created.
Steps: Step 1: The moderator creates a new group with a specific group name. Step 2: The moderator submits watchers' emails to invite them to join the group. Step 3: The system sends emails to watchers.

Use Case 2

Use Case ID: 2
Use Case Name: Create a movie watching event
Actors : Moderator
Description: The moderator sets the details of the watching event, including the date and time the watching event begins, the trailers and reviews' links of each movie. Besides, the most important, the movies in the watching event.
Preconditions: The group has been created.
Post conditions: The system has stored the watching event the moderator just created.
Steps: Step 1: The moderator sets a specific time and other details for the watching event. Step 2: The moderator selects movies that are potential to be watched as a movie list Step 2: The moderator populates the group with the list. Step 3: The moderator adds a trailer's link to the specific movie list. Step 4: The moderator adds a review's link to the specific movie list. Step 5: The system notifies the watchers that a new watching event has been created.

Use Case 3

Use Case ID: 3
Use Case Name: Manage voting period
Actors : Moderator
Description: The moderator sets the open time and close time of the voting period related to the specific movie list and then lets the system notify all members of the group that the voting begins.
Preconditions: The group and movie event has been created.
Post conditions: The system has calculated the vote that each movie gets, and helped moderator to select which movie to watch.
Steps: Step 1: The moderator sets the time to open the voting. Step 2: The moderator sets the time to close the voting. Step 3: The system notifies the watchers of voting period.

Use case 4

Use Case ID: 4
Use Case Name: Join a group
Actors：Watcher
Description: Watchers will receive the invitation the moderator sends, and then decide whether to join the specific movie group.
Preconditions: The system has sent watchers invitations to join the group.
Postconditions: The system has added the watcher to the group created by the moderator.
Steps: Step 1: The watcher receives an invitation from the email. Step 2: The watcher opens the link to agree to join the group. Step 3: The system notifies the other participants that the specific watcher has joined the group.

Use Case 5

Use Case ID: 5
Use Case Name: Unsubscribe a group
Actors：Watcher
Description: Watchers can unsubscribe from the specific movie watcher's group.
Preconditions: The watcher has already joined a group.
Postconditions: The system has removed the watcher from the group.
Steps: Step 1: The watcher clicks the button to unsubscribe a group. Step 2: The watcher is removed from the group member list. Step 3: The system notifies the other participants that the specific watcher has left the group.

Use Case 6

Use Case ID: 6
Use Case Name: Participate in a movie watching event
Actors：Watcher
Description: The watcher browses the reviews and trailers of each movie in the movie list, then votes the one he wants to watch. He can change the vote anytime before the voting period ends.
Preconditions: The watcher has already joined a group and a movie watching the event.
Post conditions: The system has kept the vote.
Steps: Step 1: The watcher receives a notification that a new movie watching event has been created. Step 2: The watcher enters the movie event and browses the movie list. Step 3: The watcher selects a movie link that he is interested in. Step 4: The watcher browses the specific movie reviews and watches the trailers. Step 5: The watcher votes the movie he wants to watch and does not want to watch. Step 6: The watcher can change the votes.

Use Case 7

Use Case ID: 7
Use Case Name: Elect a movie winner
Actors: Server
Description: The system collects the voting information and selects the one with the highest votes.
Preconditions: The watcher has already voted.
Postconditions: The system has selected the winner.
Steps: Step 1: The system gets voting information. Step 2: The system selects the movie which has the highest vote. Step 3: The system sends the voting results to watchers.

Use Case 8

Use Case ID: 8
Use Case Name: Keep the history
Actors: Server
Description: The server keeps everything in record, including the movie watching events, votes, and winners for each movie watching group.
Preconditions: The moderator has already created the watching events. The watchers have already voted. The winners have already been elected.
Post conditions: The system has kept everything in the memory.
Steps: Step 1: The system stores the information of the movie event, group, vote and the result. Step 2: The system sends the history to the watchers of the specific group.