Reviews on Group 15

Group Members:
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Actors

- User
  - Basic actor.
  - Has access to create or join a group.
- Moderator
  - Inherited from Group member who created the group.
  - has access to manage the group, such as create a movie event and open a vote for the event.
- Group member
  - Inherited from user who joined or created a group.
  - Has access to engage the group events.
- Movie review site
  - A external website provides reviews and trailers.

Use Cases List: User related

ID	Name	Description
UC01	Login in	Every user has to login before using this application.
UC02	Create a group	User creates a group and become the moderator of the group.
UC03	Join a group	User joins a group and become a member of the group.

Use Cases List: Group Member related

| ID	Name	Description
UC11	Unsubscribe a Group	Group member unsubscribes the group.
UC12	Search Movies	Group member searches movies in the group.
UC13	Watch Trailers	Group member watches movie trailers.
UC14	Watch Reviews	Group member watches movie reviews.
UC15	Vote	Group member votes a movie in a voting event.

Use Cases List: Moderator related

| ID	Name	Description
UC21	Invite People	Moderator invites people into the group.
UC22	Pull a Movie List	Moderator pulls a movie list from an external website.
UC23	Create a Movie Event	Moderator creates a movie event for members.
UC24	Open a Voting Event	Moderator opens a voting event in a movie event.
UC25	Elect Winner	The system counts the most voted movie.
UC26	Remove Members	Moderator removes a member from the group.

Overview

- What artifacts your group reviewed
- The key issues (5 to 7) found in each component:
    - Use Case Diagram
    - Use Case Specification
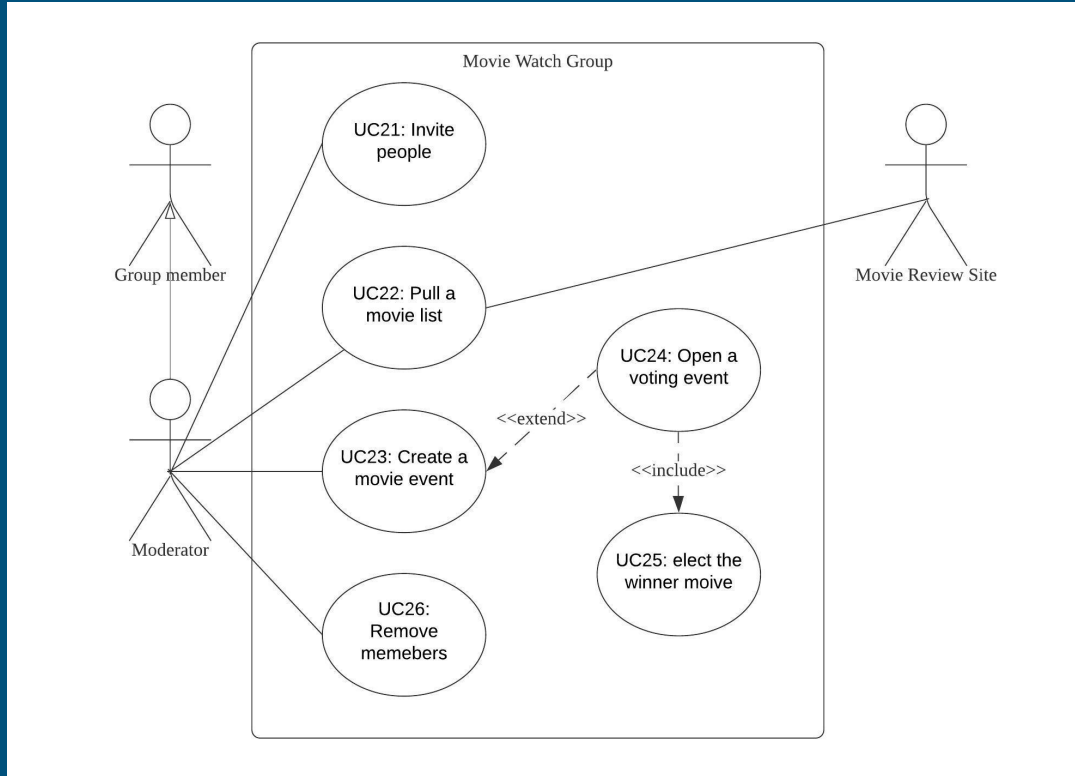   - Class Diagram
    - Sequence Diagram

Use Case Diagram: User
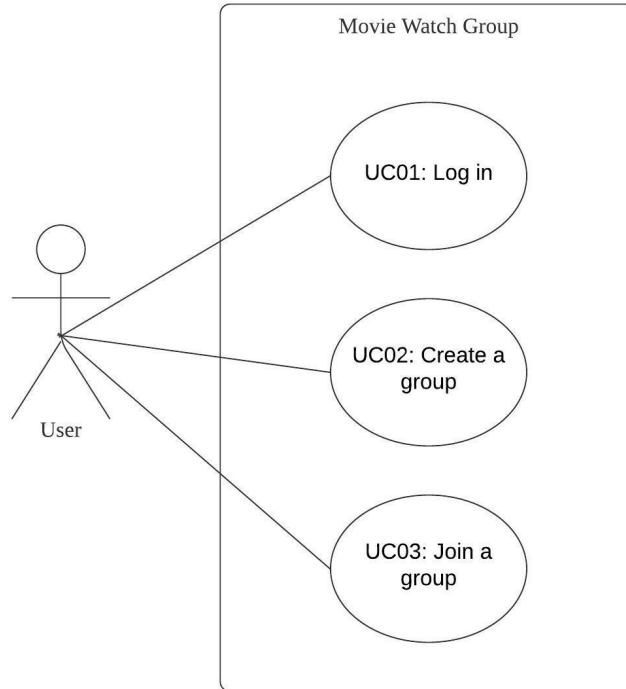
Use Case Diagram: Group Member
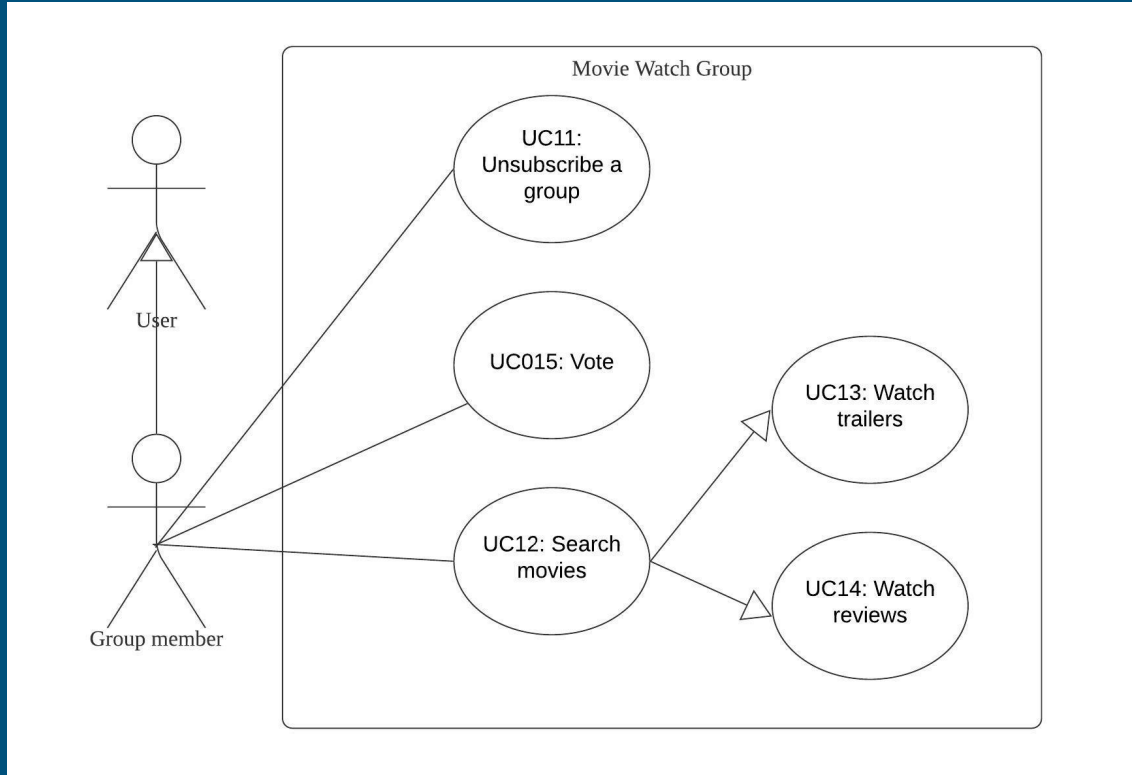
Use Case Diagram: Moderator

Key Issues in Use Case Diagram

1. **View History use case is missing:** View History is one of the requirements that is mentioned in the Syllabus but not mentioned in the use case diagram.
2. **UC26: Remove Members use case spelling is wrong.**
3. **Populate movie list use case missing:** Pull a movie list use case is supposedly overshadowing and engulfing the populate movie list functionality. Populate movie list should be done by the moderator into the group, while pulling takes place from the server initiated by moderator. Populate movie should be a use case in itself.
4. **Modify vote use case is missing:** Modify Vote is one of the requirements that is mentioned in the syllabus but not mentioned in the use case diagram. It is a functionality that must be given to the Group members.
5. **UC25: Elect winner is not a use case:** Electing a winner is something that is done (votes calculated) by the system. And since system is not an actor, it is should not be a use case. Furthermore, it should not represented in the use case diagram, at least as a use case for a moderator.
6. A lot of other use cases are not listed that are apparently listed as functions in the class diagrams. Example: logout and change password. (If login is listed as a use case for User, then why not logout?)

Ways to resolve issues in Use Case Diagram

1.   **Creating a View History use case:** View History is one of the requirements for the group members that is mentioned in the syllabus but not mentioned in the use case diagram. By creating this use case, we can specify the actors associated with it and clearly define a key functionality of the system.
2.   **UC26: Correcting Remove Members spelling:** Corrected spelling will correctly indicate the use case and help us redirect to the correct diagram.
3.   **Creating a Populate movie use case:** Populate movie list is one of the requirements that is mentioned in the syllabus but not mentioned in the use case diagram. By creating this use case, we can specify the actors associated with it and clearly define a key functionality of the system.
4.   **Creating a Modify Vote use case:** Modify Vote is one of the requirements for the group members that is mentioned in the syllabus but not mentioned in the use case diagram. By creating this use case, we can specify the actors associated with it and clearly define a key functionality of the system.
5.   **UC25: Removing the elect winner use case:** Since system is executing this whole functionality, and is not an actor, it is should not be a use case. Removing this use case will make the final use case diagram more concise and accurate.
6.   **Adding use cases** that will complete and justify the presence of other use cases will help complete the diagram and capture the complete functionality of the diagram. For Example: Logout and Change Password for Basic User.

Use Case Spec: UC01 | Login

ID	UC01
Name	Login
Description	Every user has to login before using this application.
Pre Condition	The user has not logged in.
Post Condition	The user has access to its information.
Steps	User inputs username/email and password. User clicks login button. The system compares login information with database. If the information matches, allows the user to login, otherwise displays login error.

Use Case Spec: UC02 | Create a Group

ID	UC02
Name	Create a Group
Description	User creates a group and becomes the moderator of the group.
Pre Condition	The use has logged in.
Post Condition	The user becomes the moderator of the group.
Steps	User creates a group and names the group. The system creates the group into database. The system displays create successful information.

Use Case Spec: UC03 | Join a Group

ID	UC03
Name	Join a Group
Description	User joins a group and becomes the member of the group.
Pre Condition	User has logged in. There is at least one group.
Post Condition	The user becomes the member of the group.
Steps	User selects a group from the group list and joins the group.

Use Case Spec: UC11 | Unsubscribe a Group

ID	UC11
Name	Unsubscribe a Group
Description	Group member unsubscribes a group.
Pre Condition	The user is a member in the group.
Post Condition	The system remove the user from group list.
Steps	User unsubscribes the group. The system remove the user from group list.

Use Case Spec: UC12 | Search Movies

ID	UC12
Name	Search Movies
Description	Group member searches movies in the group.
Pre Condition	The user is the member of the group.
Post Condition	The system shows the searched movie information.
Steps	Group member types a movie name. If the group has the movie, the system displays the movie information. Otherwise, the system displays movie not exists.

Use Case Spec: UC13 | Watch Trailers

ID	UC13
Name	Watch Trailers
Description	Group member watches movie trailers.
Pre Condition	The user is the member of the group. The movie is in the movie list.
Post Condition	None.
Steps	Group member watches movie trailers.

Use Case Spec: UC14 | Watch Reviews

ID	UC14
Name	Watch Reviews
Description	Group member watches movie reviews.
Pre Condition	The user is the member of the group. The movie is in the movie list.
Post Condition	None.
Steps	Group member watches movie reviews.

Use Case Spec: UC15 | Vote

ID	UC15
Name	Vote
Description	Group member votes for a movie in a voting event.
Pre Condition	The moderator has opened a voting event. The voting event is not closed.
Post Condition	The system add a vote for the voted movie.
Steps	The user votes for a movie. The system add a vote for the voted movie.

Use Case Spec: UC21 | Invite People

ID	UC21
Name	Invite People
Description	The moderator invite users to the group.
Pre Condition	The user is the moderator of the group. The invited user is not in the group.
Post Condition	The system adds the invited user to the group.
Steps	The moderator invite a user from the unjoined list into the group. The system adds the user to the group.

Use Case Spec: UC22 | Pull a Movie List

ID	UC22
Name	Pull a Movie List
Description	The moderator pulls a movie list from an external website.
Pre Condition	The user is the moderator of the group.
Post Condition	The system adds the pulled list into the movie list.
Steps	The moderator pulls a movie list from an external website. The system adds the pulled list into the movie list.

Use Case Spec: UC23 | Create a Movie Event

ID	UC23
Name	Create a Movie Event
Description	Moderator creates a movie event for the group.
Pre Condition	The user is the moderator of the group.
Post Condition	The system add the movie event into the event history.
Steps	Moderator creates a movie event for the group. Moderator sets the time and movie for the event. The system add the movie event into the event history.
Extend	UC24: Open a Voting Event

Use Case Spec: UC24 | Open a Voting Event

ID	UC24
Name	Open a Voting Event
Description	Moderator opens a voting event for a movie event.
Pre Condition	The user is the moderator of the group.
Post Condition	The system closes the voting event by the closing time.
Steps	Moderator opens a voting event for a movie event. Moderator sets start and close time for the voting event. The system adds the voting event into movie event.
Include	UC25: Elect Winner

Use Case Spec: UC25 | Elect Winner

ID	UC25
Name	Elect Winner
Description	The system counts the most voted movie.
Pre Condition	The voting event is closed.
Post Condition	The system informs the result to group members.
Steps	The system counts the most voted movie. The system records the winner. The system informs the group member.

Use Case Spec: UC26 | Remove Members

ID	UC26
Name	Remove Members
Description	The moderator removes a member from the group.
Pre Condition	The user is the moderator of the group. The group has least one members.
Post Condition	The system removes the member from the group list.
Steps	The moderator removes a member from the group. The system removes the member from the group list.

Key Issues in Use Case Specification

1. Misidentified pre-condition for UC[01/03/13/14]
2. Misidentified post-condition for UC[01/13/14]
3. Serial numbers of steps are missing and steps are not clearly elaborated
4. Steps regarding the interaction between the UI are missing
5. Naming Convention of Use Case should be <VERB> <NOUN> for UC15
6. Use Case for Modify Votes, View History, Populate Movies, etc. are missing
7. Elect Winner is not a use case, since it should be interaction between actors and system not things that are performed by the system

Ways to resolve issues in Use Case Specification

1. Identified the correct pre-conditions
2. Identified the correct post-conditions
3. Add serial numbers so the flow of the use case is clear
4. Refined the steps
5. Add the interactions between UI, such as clicks, redirects, etc.
6. Ensure that the naming convention follows the <VERB> <NOUN> pattern
7. Add the use case specification for modify votes, view history, populate movies, etc.
8. Remove elect winner use case specification since it's not a use case

Sequence Diagram: UC01 - Login
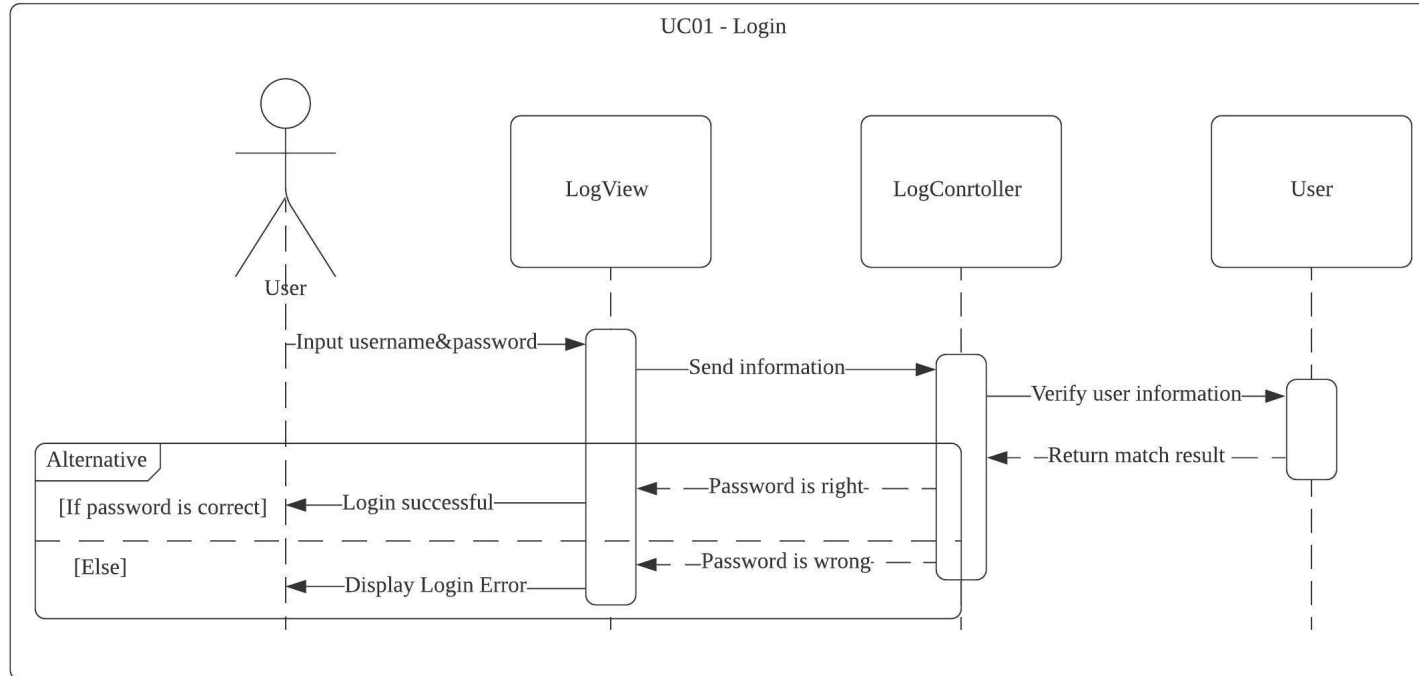
Sequence Diagram: UC02 - Create a Group
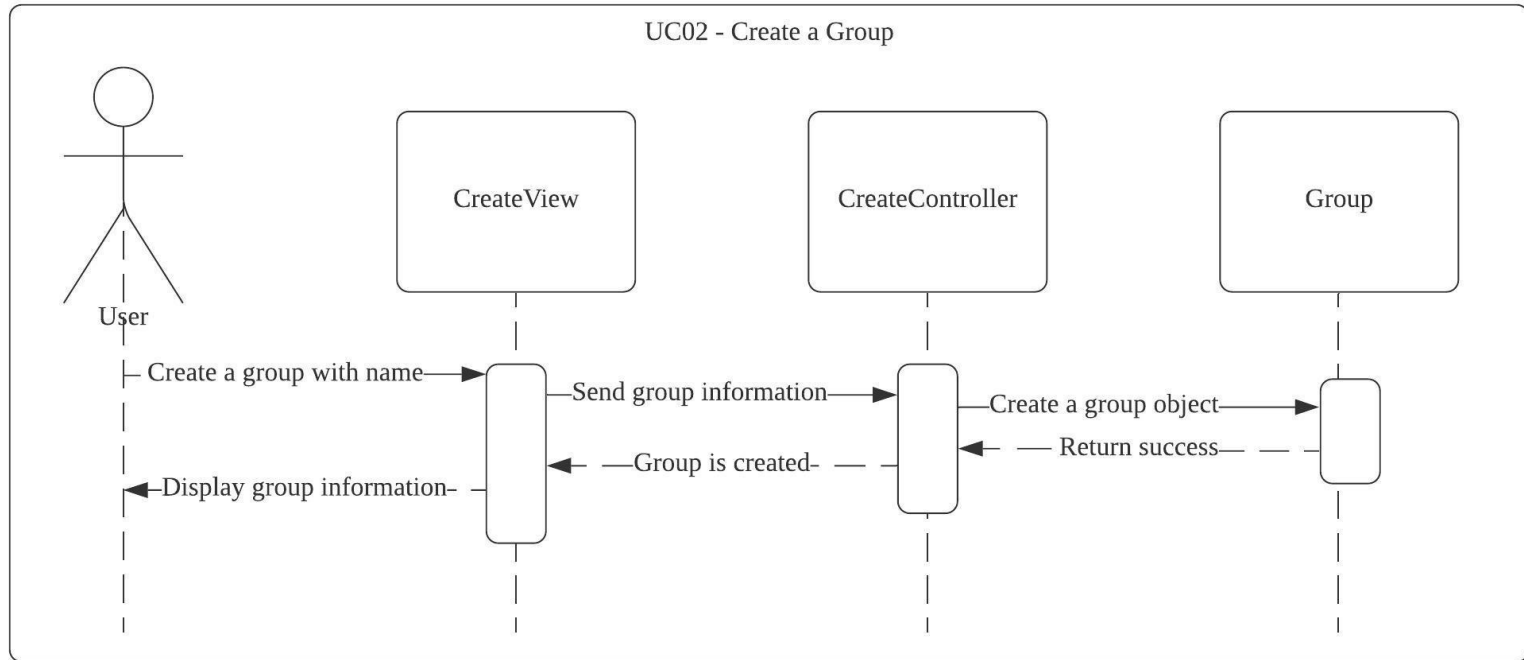
Sequence Diagram: UC03 - Join a Group
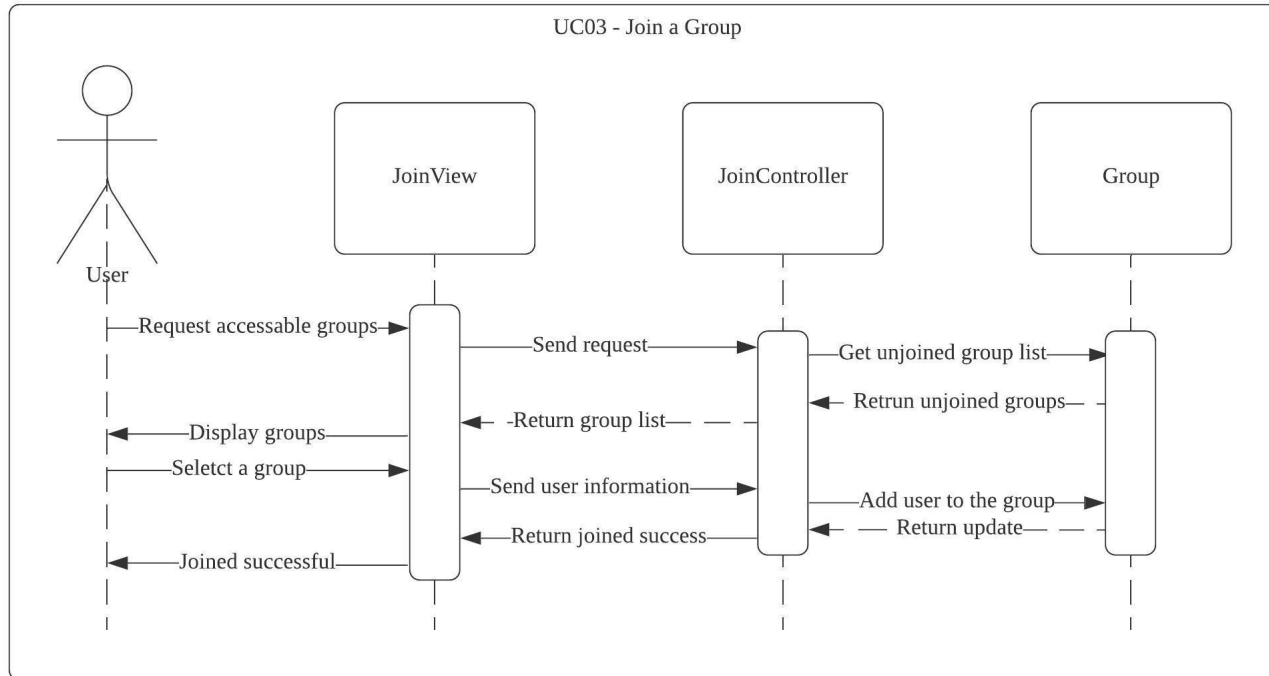
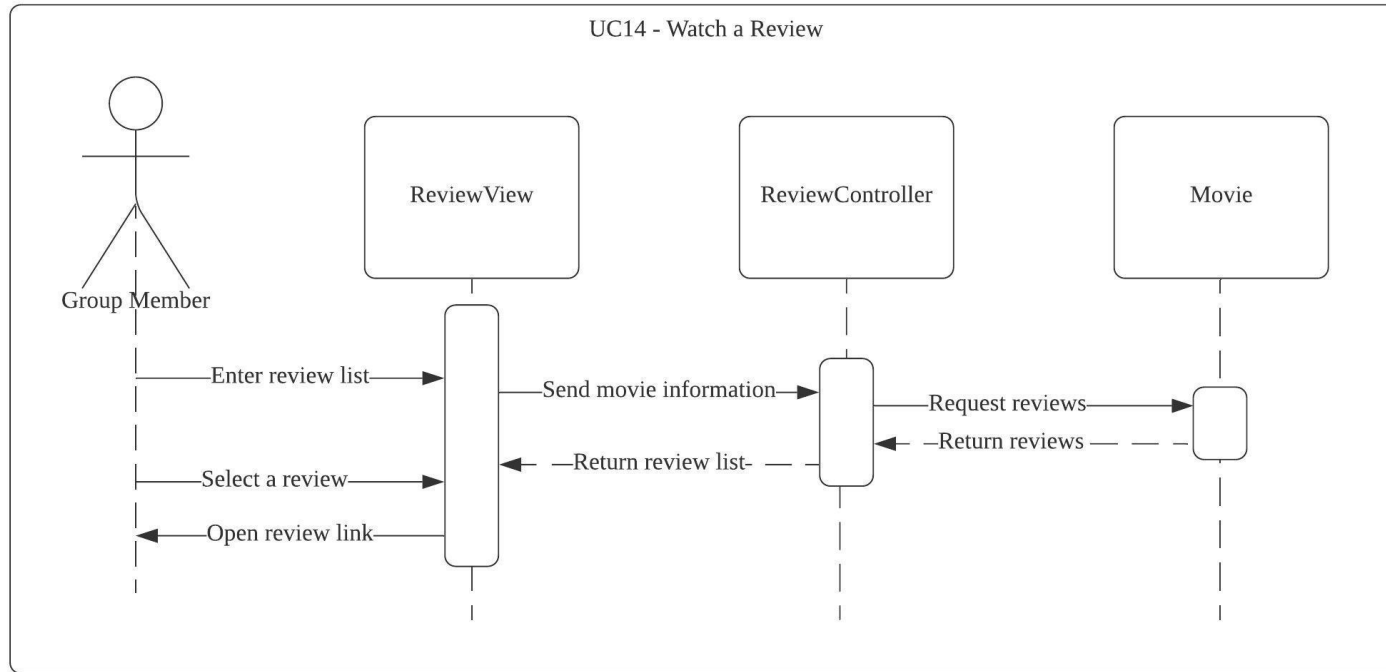# Sequence Diagram: UC11 - Unsubscribe a Group
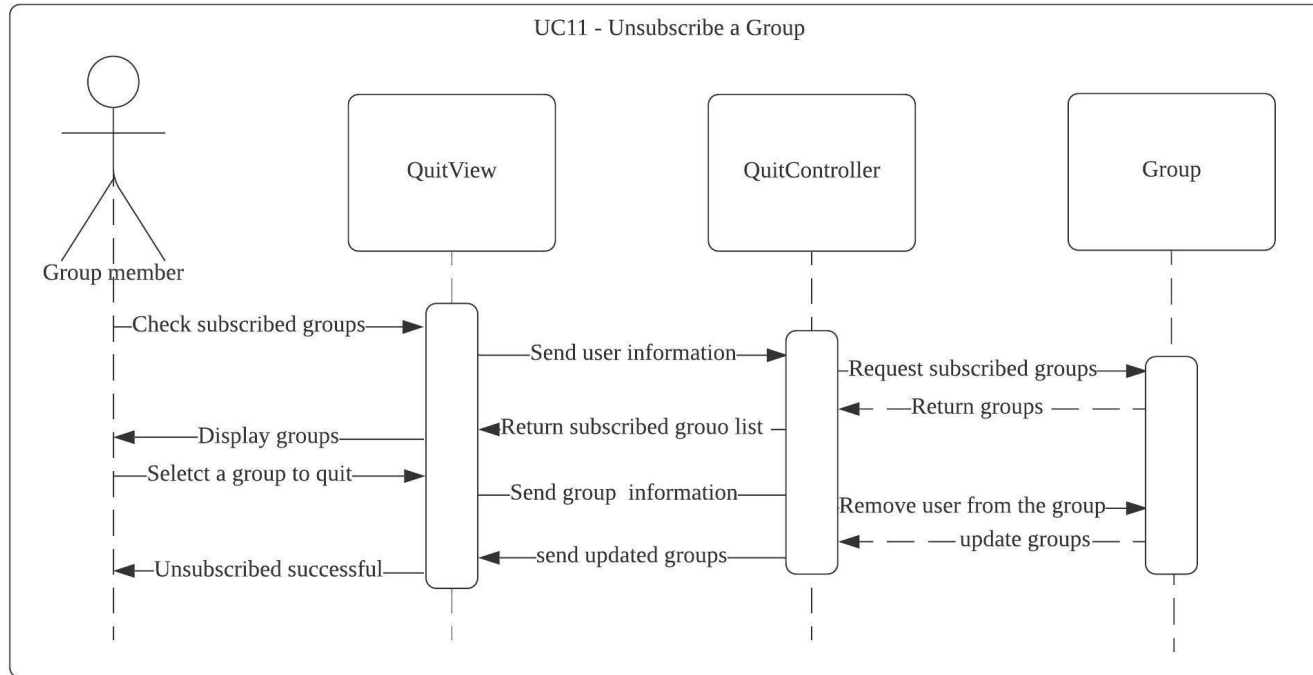
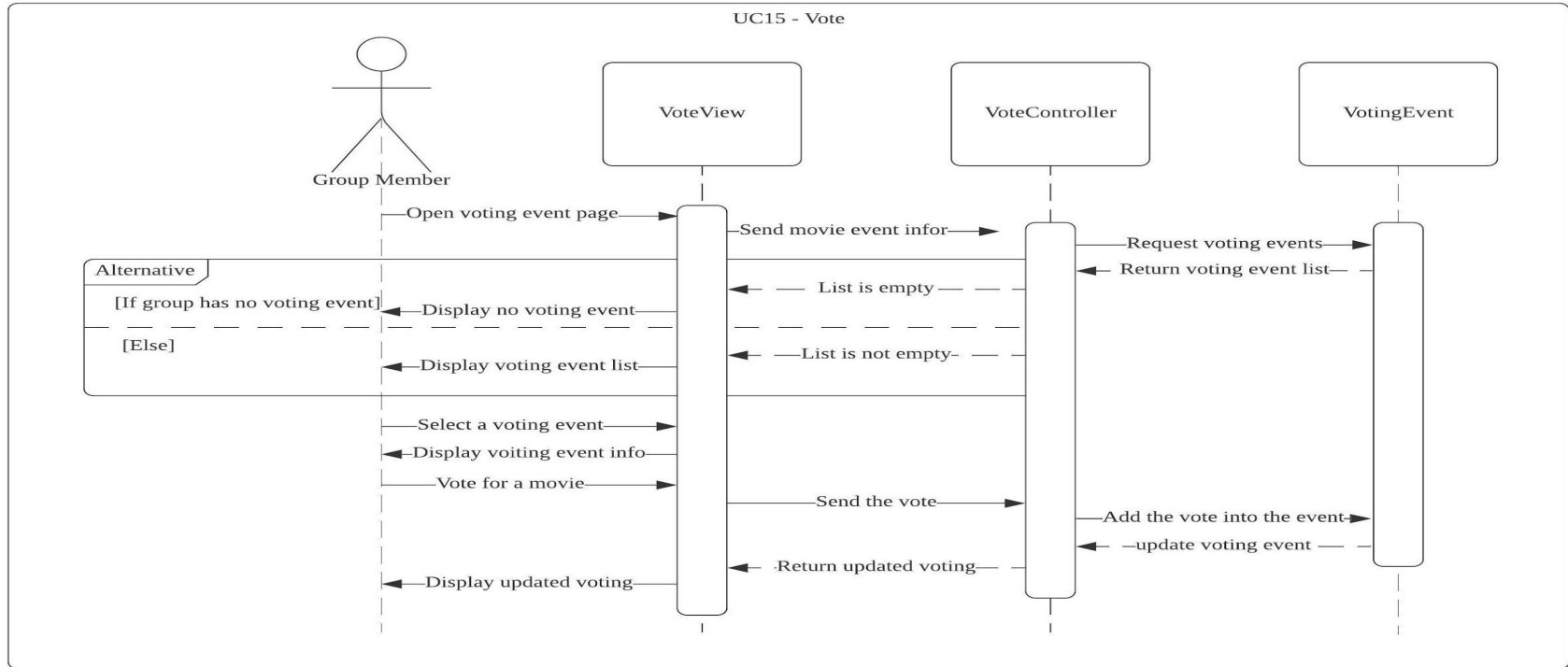# Sequence Diagram: UC12 - Search a Movie
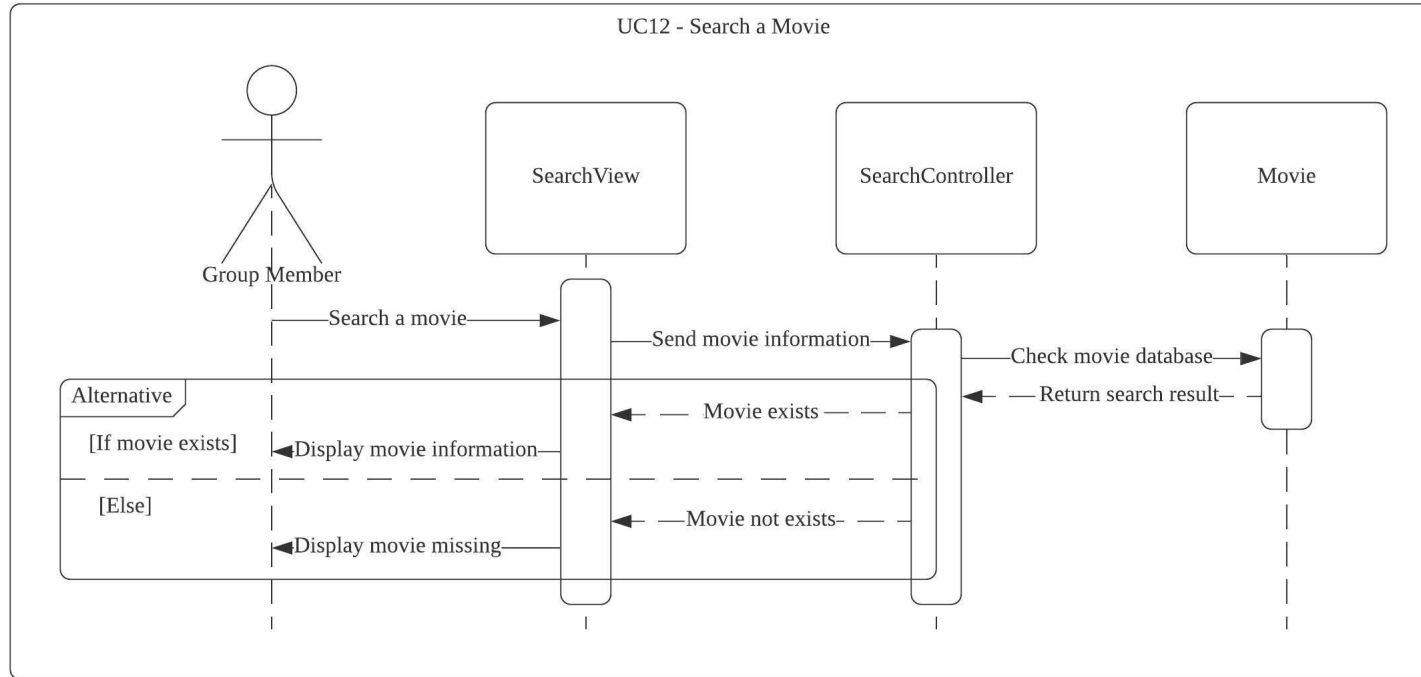
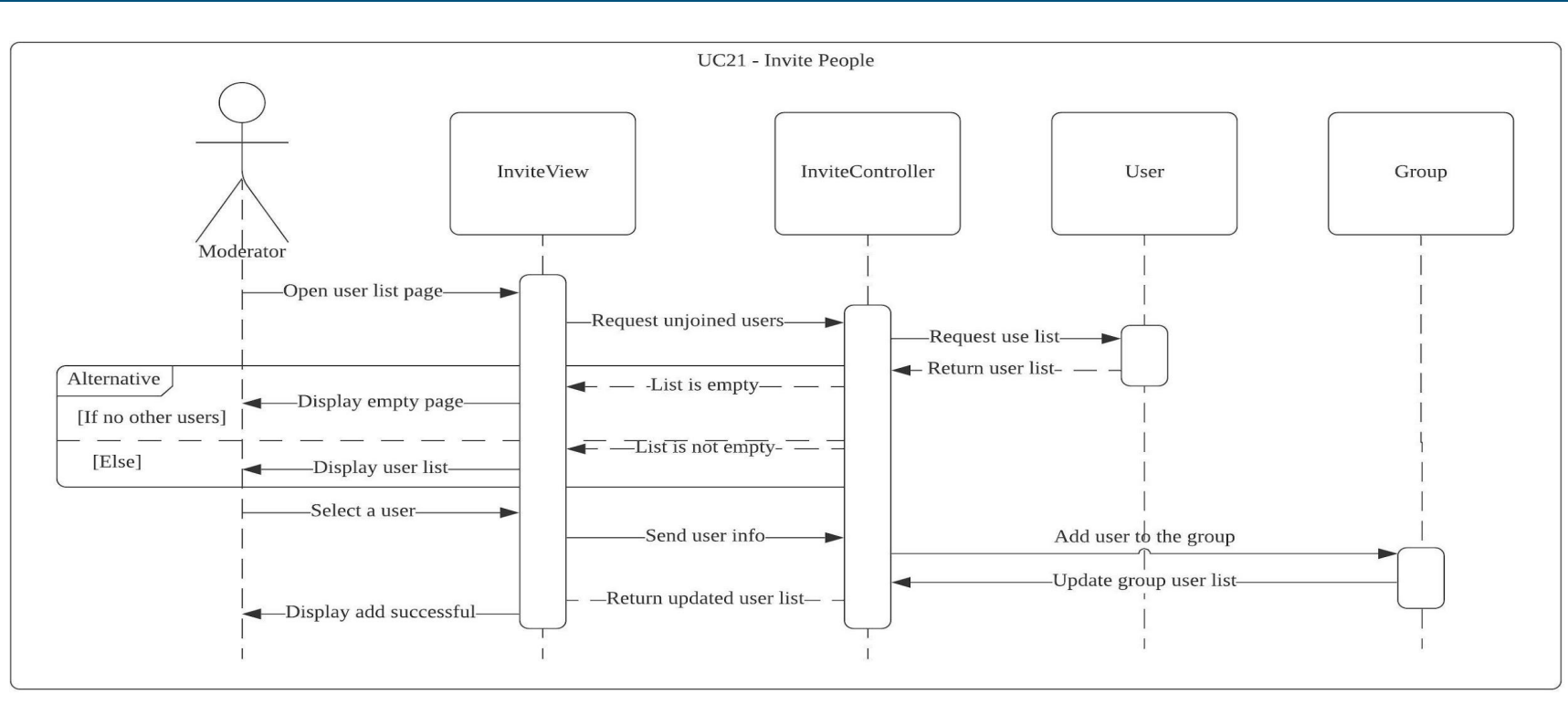# Sequence Diagram: UC13 - Watch a Trailer
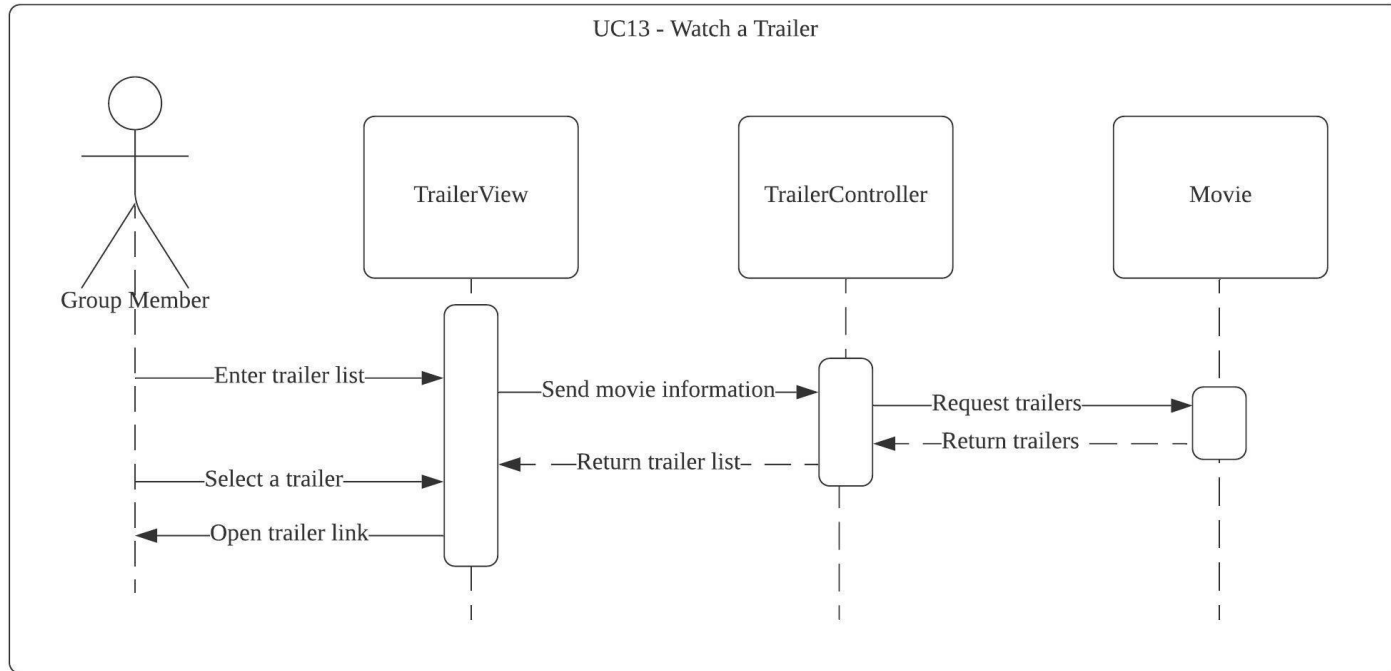
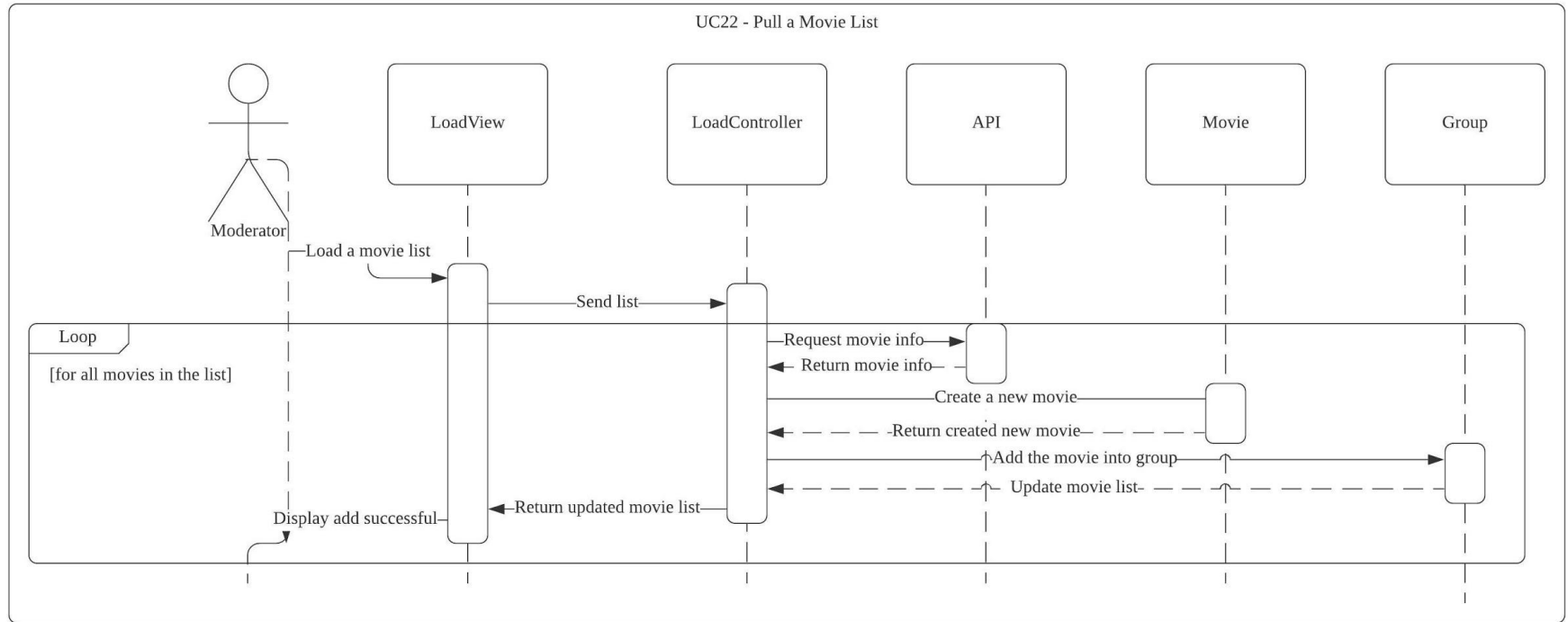# Sequence Diagram: UC14 - Watch a Review
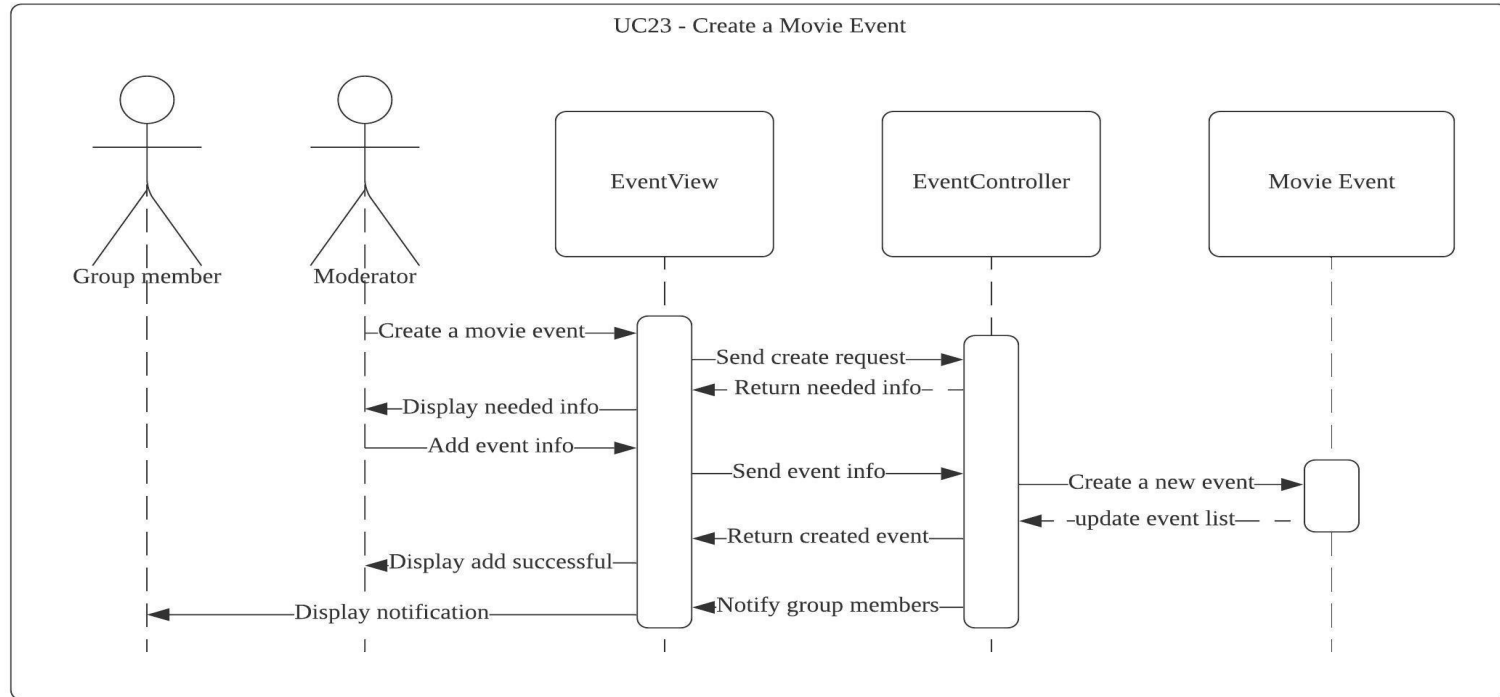
Sequence Diagram: UC15 - Vote

Sequence Diagram: UC21 - Invite People

Sequence Diagram: UC 22 - Pull a Movie List

Sequence Diagram: UC23 - Create a Movie Event

UC23 - Create a Movie Event

Group member | Moderator | EventView | EventController | Movie Event

Create a movie event

Send create request

Return needed info

Display needed info

Add event info

Send event info

Create a new event

update event list

Return created event

Display add successful

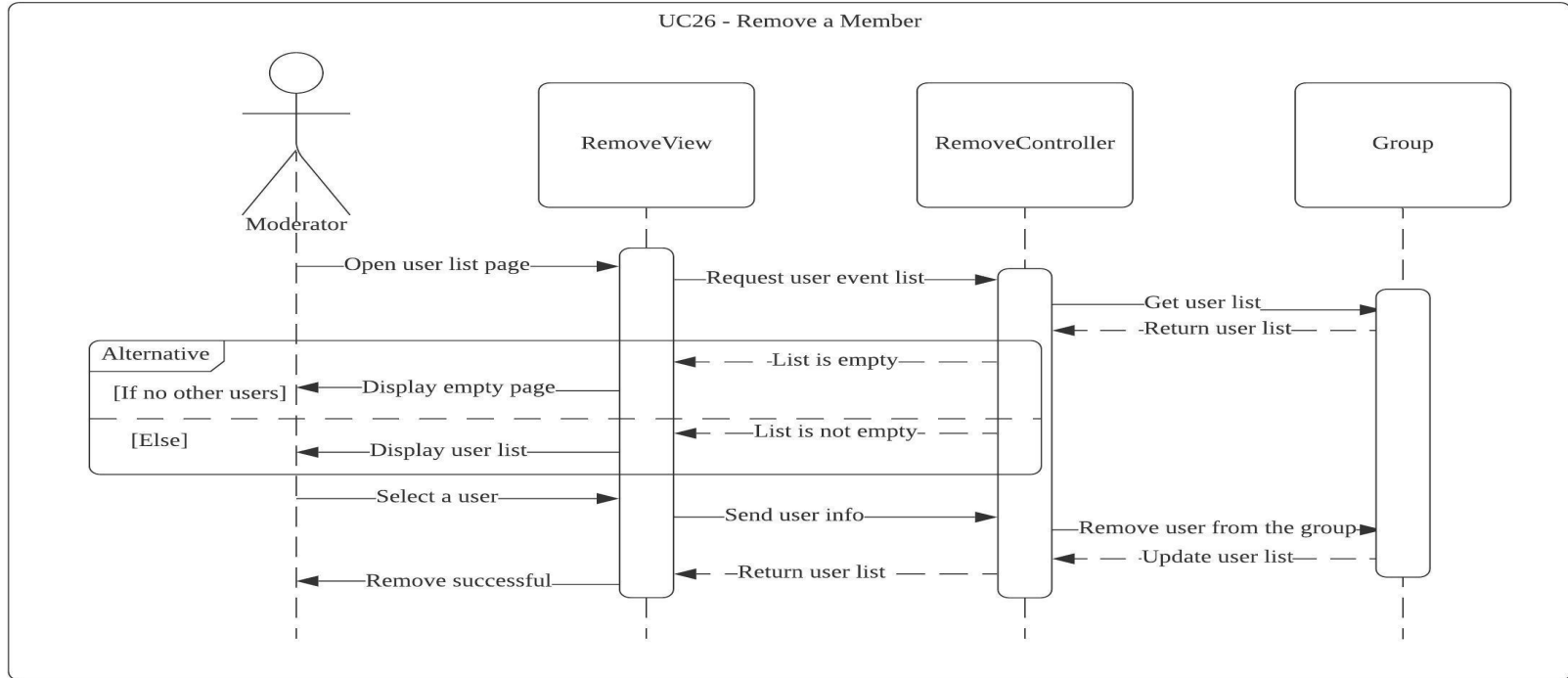Notify group members

Display notification

Sequence Diagram: UC24 - Create a Voting Event
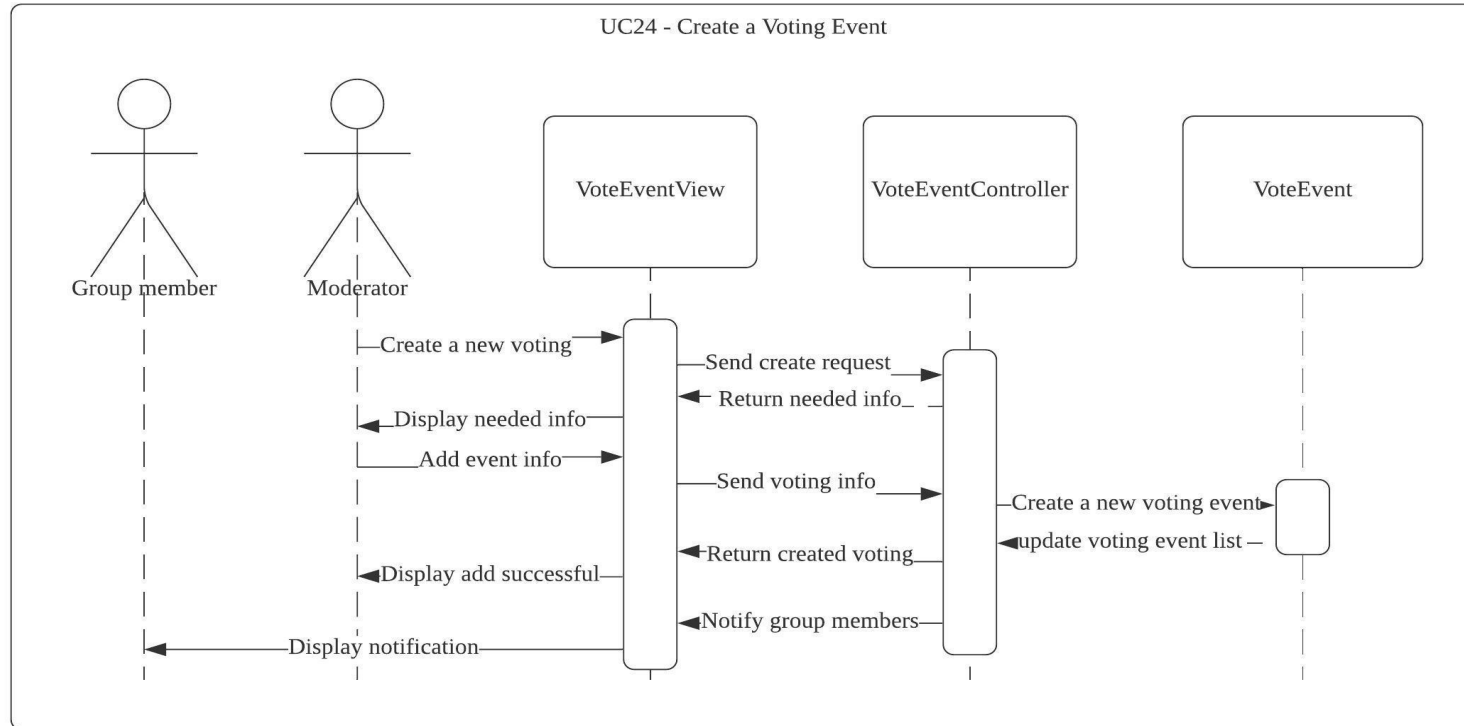
Sequence Diagram: UC25 - Elect Winner
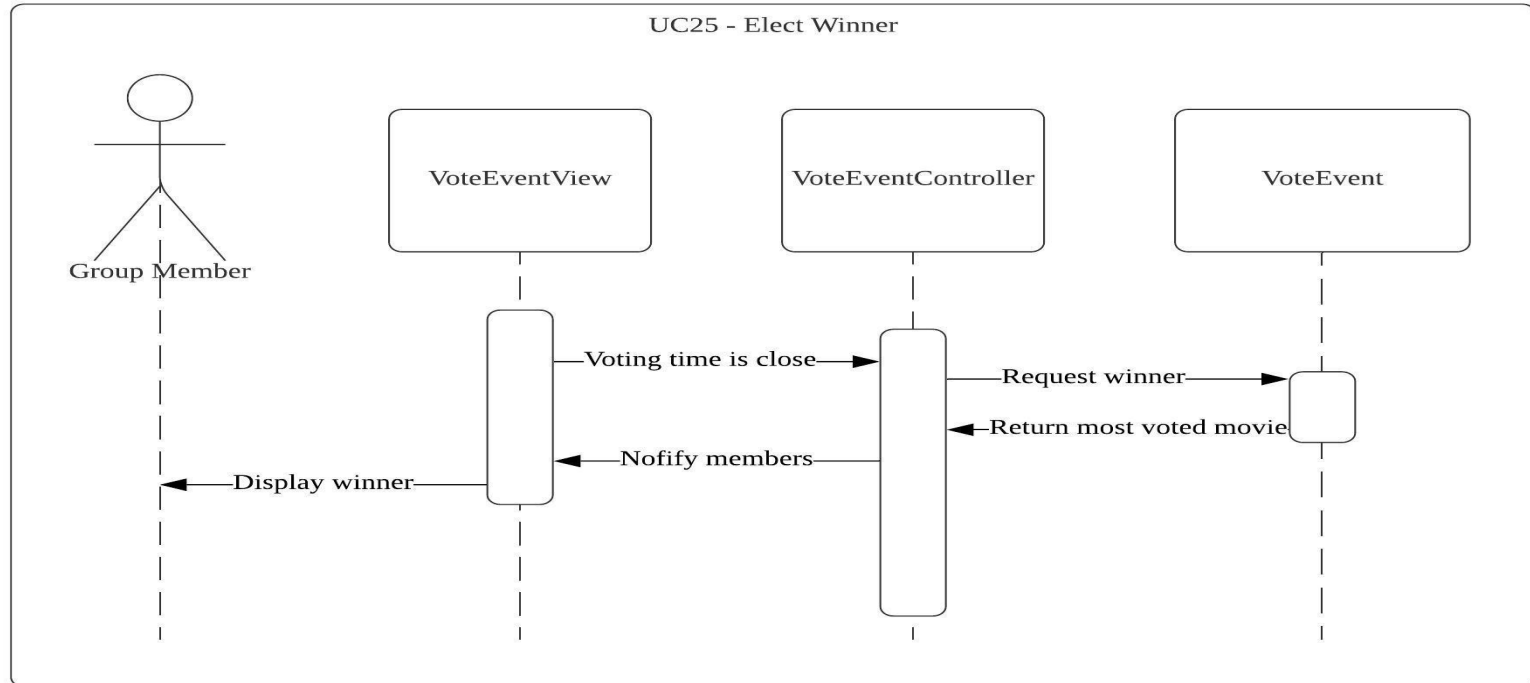
Sequence Diagram: UC26 - Remove a Member

Key Issues in Sequence Diagram

1. UC 02 Create group - Object notation with the class missing
2. UC 03 Join group - Sequence diagram notation not used correctly .
3. UC 11 Unsubscribe a group - Sequence diagram notation not used correctly .
4. UC 13 Watch trailer - Search trailer that leads to watch trailer missing. According the UC diagram(Slide 8) the user must search before watching the trailer .
5. UC 14 Watch review - Search review missing . According to UC diagram (Slide 8) the user must search before watching the trailer.

Key Issues in Sequence Diagram - 2

7.   UC 22 Pull a movie list - Missing arrows and Misdirected functions

8.   UC 24 Elect winner - Sequence diagram not required since this function does not interact with the user.

9.   UC 26 Remove a member - Opening and displaying list of users not specifically for "Removing a member"

Ways to Resolve Issues in Sequence Diagram

1.   UC 02 Create Group - Add object notations to sequence diagrams e.g Group1 : Group

2.   UC 03 Join group - Arrows should not be coming back to the user . Mention the invite sent from the moderator in the diagram .

3.   UC 11 Unsubscribe group - Fix arrows coming back to the user . Cross after you quit the group . Contents above select a group to quit can be removed

4 .   UC 13 Watch Trailer - Enter trailer has to be removed . Fix Search before watching a trailer . Remove open trailer links since trailers are on external website

Ways to Resolve Issues in Sequence Diagram - 2

5.   UC 14 Watch Review - Fix search before watching or reading review . Remove open review links since it is on an external website

6.   UC 22 Pull a movie list - Add object notations to sequence diagram eg.Group 1 : Group . Load movie list should be from load controller

7.   UC 24 Elect winner - Sequence diagram not necessary since it does not interact with the user . Elect winner is an auto-calculate function after voting .

8.   UC 26 Remove member - Opening and displaying list of users not specifically for "Removing a member"

Class Diagram Model
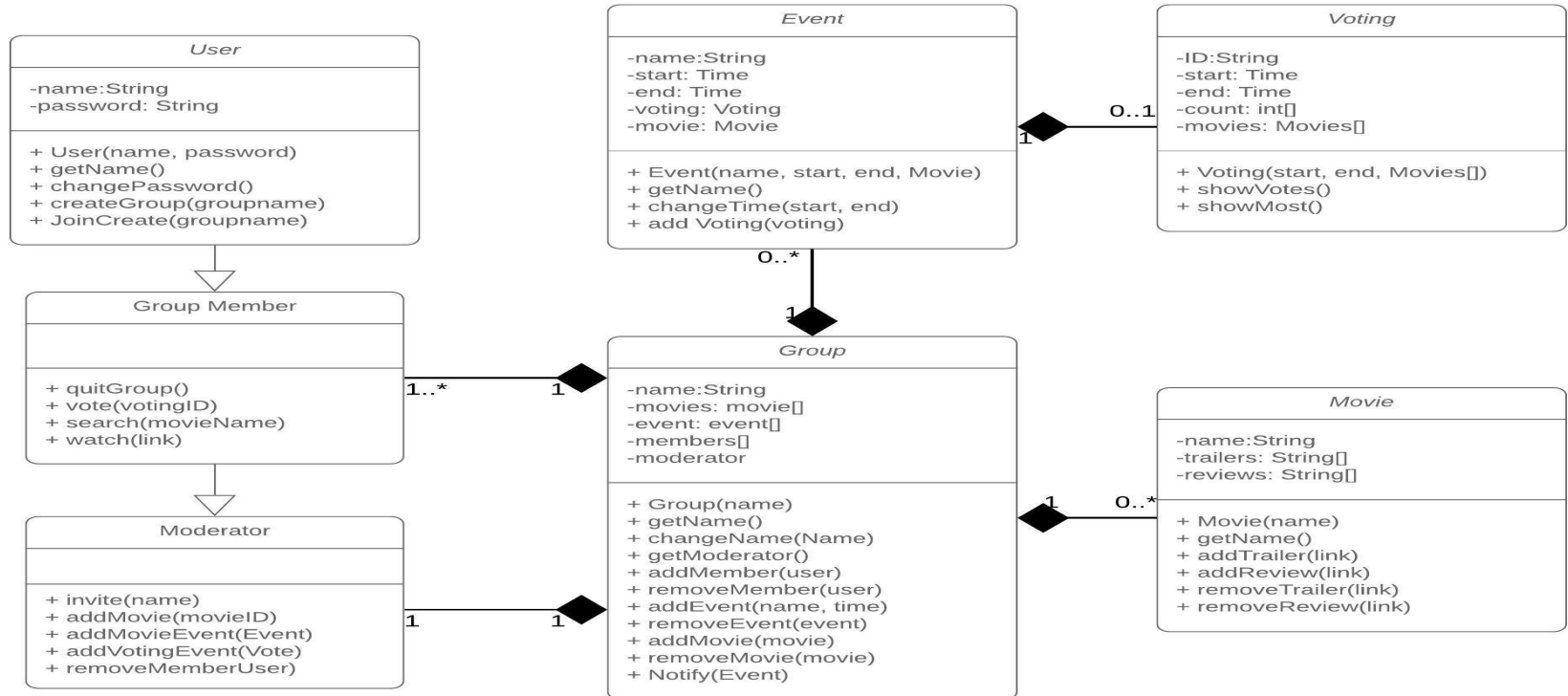
Key Issues in Class Diagram

1. Moderator should not inherit from group member
2. Change Password should not be a function.
3. "Joincreate" function's naming convention is wrong as well as the functionality is unclear.
4. There is no link between moderator and movie.
5. There is no link between moderator and event.
6. There is no link between group member and voting.
7. There is no link between moderator and event.
8. View History function is missing

Ways to resolve issues in Class Diagram

1. Moderator should inherit from user and not group member.
2. Change Password should be added as a use case.
3. Follow naming convention for "Joincreate" that clearly identifies what it joins and what it creates. Do not merge 2 features in one. Follow 'Single Responsibility' principle.
4. Create a relationship link between moderator and movie.
5. Create a relationship link between moderator and event.
6. Create a relationship link between group member and voting.
7. Create a relationship link between moderator and event.
8. Create a method to allow the user to 'View History'.