

# Spring2020-a3

Group 16

Jiaqiu Shen,  
Yuhao Yang,  
Huadong Hu,  
Yufei Li

# CONTENTS



1

**Use Case Diagram**

2

**Use Case Specification**

3

**Bi-direction traceability Matrix**

4

**Sequence Diagram**

5

**Class Diagram Model**

6

**State Diagram**

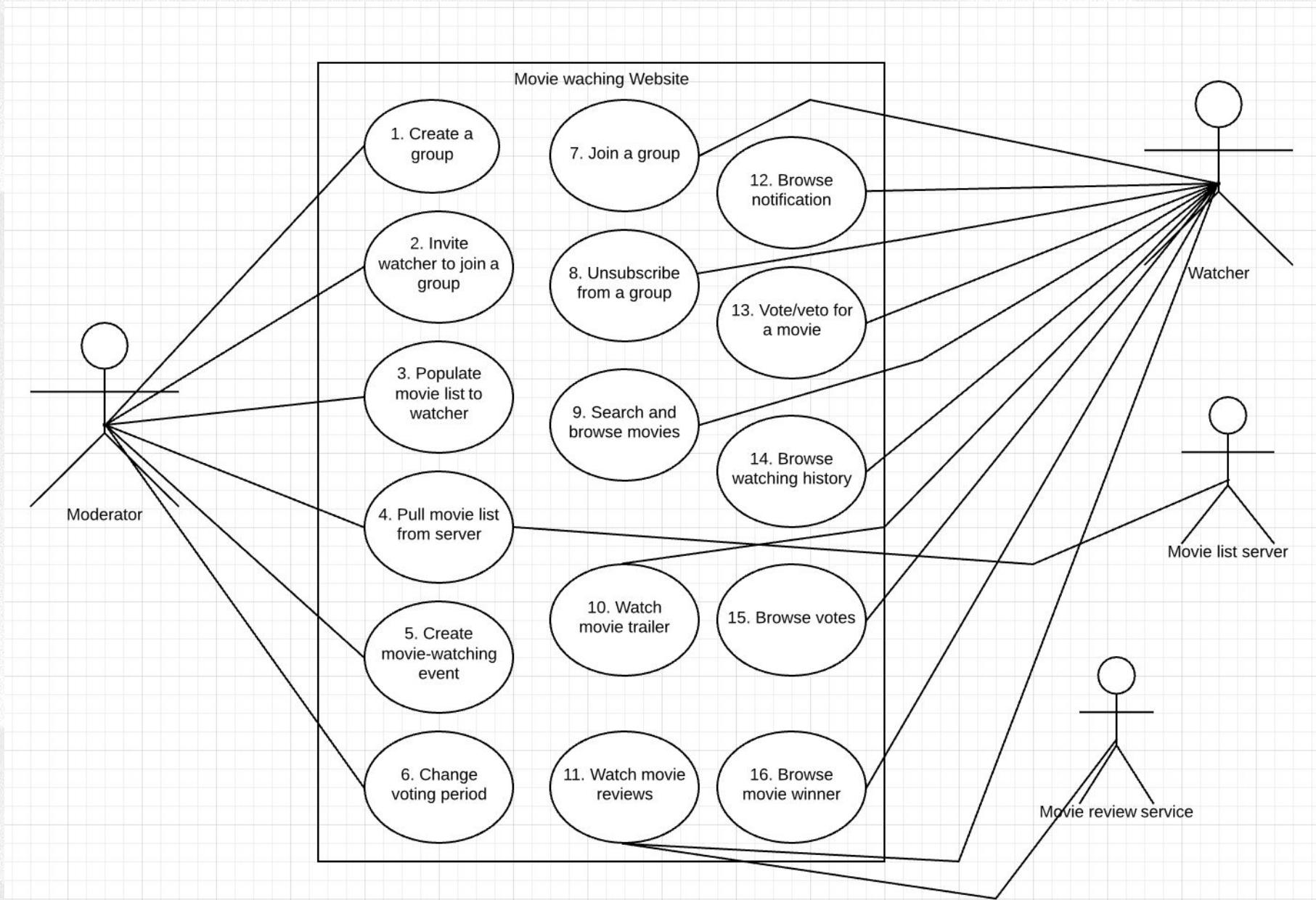
# 01

Part One

# Use Case Diagram



# /// Use Case Diagram



# 02

Part Two

# Use Case Specification

# / / Use Case Specification

## Moderator

---

### 1. Title: Create a movie watchers group

Description: Moderator click “create group” button and then enter the information of the group to create a movie watchers group.

### 2. Title: Invite watcher to join the group

Description: In the group control panel, moderator can invite watcher through searching watcher’s ID or name to join this specific group.

### 3. Title: Pull movie list and populate movie list to watcher

Description: Moderator can pull a list of potential movies that could be watched through API and then select the movie watcher’s groups to populate

### 4. Title: Create movie-watching event

Description: Moderator click “create event” button and then enter the information of the event to create a movie-watching event.

### 5. Title: Change voting period

Description: In the movie event control panel, moderator can edit the voting period.

# Use Case Specification Watcher

---

## 6. Title: Join group

Description: Watcher join a group through an invitation from the moderator

## 7. Title: Unsubscribe from a group

Description: Watcher click the “unsubscribe” button to unsubscribe a specific group

## 8. Title:Search and browse movies

Description: Users can search the movie by genre; grading or name.

## 9. Title:Watch movie trailer

Description: User click the “watch trailer” button to watch the movie trailer

## 10. Title:Watch movie reviews

Description: User click the “review” tab below the movie watching window to watch the review.

## 11. Title:Browse notification

Description: User can see the notification through a pop-up window or click the “notification” button to browse past notifications

# Use Case Specification Watcher

---

12. Title: Vote and veto for movies

Description: watchers cast a vote or veto to a movie by clicking the thumbs up or down button

13. Title: Browse movie watching history

Description: Every time a user clicks into a movie, the movie name is added to the watching history list and user can browse watching history by clicking the “history” button

14. Title: Browse votes

Description: watchers can browse the number of votes and vetoes for a movie

15. Title: Browse winners

Description: after the voting is ended and system automatically chooses the movie with the highest vote, user can browse the winner



# 03

Part Three

## Bi-direction Traceability Matrix



# / / / Bi-direction Traceability Matrix

**Requirement Traceability Matrix (RTM)** is a document that maps and traces user requirement with test cases.

It captures all requirements proposed by the client and requirement traceability in a single document, delivered at the conclusion of the Software development life cycle.

The main purpose of Requirement Traceability Matrix is to validate that all requirements are checked via test cases such that no functionality is unchecked during Software testing.

# Bi-direction Traceability Matrix

Test Case	Case Description
TC#001	Verify if moderator is able to create a new movie watcher group
TC#002	Verify if moderator is able to invite watcher to join the group
TC#003	Verify if moderator is able to populate a movie list to watcher Verify if moderator is able to pull a movie list/trailer/reviews from a movie list server/ API
TC#004	Verify if moderator is able to create a movie-watching event
TC#005	Verify if moderator is able to change voting period
TC#006	Verify if watcher can be notified
TC#007	Verify if history can be kept
TC#008	Verify if watcher is able to join a group
TC#009	Verify if watcher is able to unsubscribe from a group
TC#010	Verify if watcher is able to search and browse movies/trailers/reviews
TC#011	Verify if watcher is able to vote and veto for movies
TC#012	Verify if watcher is able to browse watching history Verify if watcher is able to browse votes Verify if watcher is able to browse winners

# Bi-direction Traceability

Group Movie APP				
Requirement ID	Required Features	Requirement Use Case	Test Case ID	
1	Moderator create a movie watcher group	Create Group	TC#001	
2	Moderator invite family or friends to join a group	Invite Wathcers	TC#002	
3	Moderator populate a movie list from a API to watcher	Provide Movie List	TC#003	
4	Moderator create a movie-watching event	Create Event	TC#004	
5	Moderator change voting period	Change voting period	TC#005	
6	Watcher got notification for voting	Notification	TC#006	
7	Movie events, votes, movie winner history kept	History kept	TC#007	
8	Watcher join a group	Join Group	TC#008	
9	Watcher unsubscribe form a group	Unsubscribe	TC#009	
10	Watcher search and browse movie list/ trailers/reviews	Search and browse	TC#010	
11	Watcher vote for movies	Watcher voting	TC#011	
12	Watcher can browse the history	Browse history	TC#012	

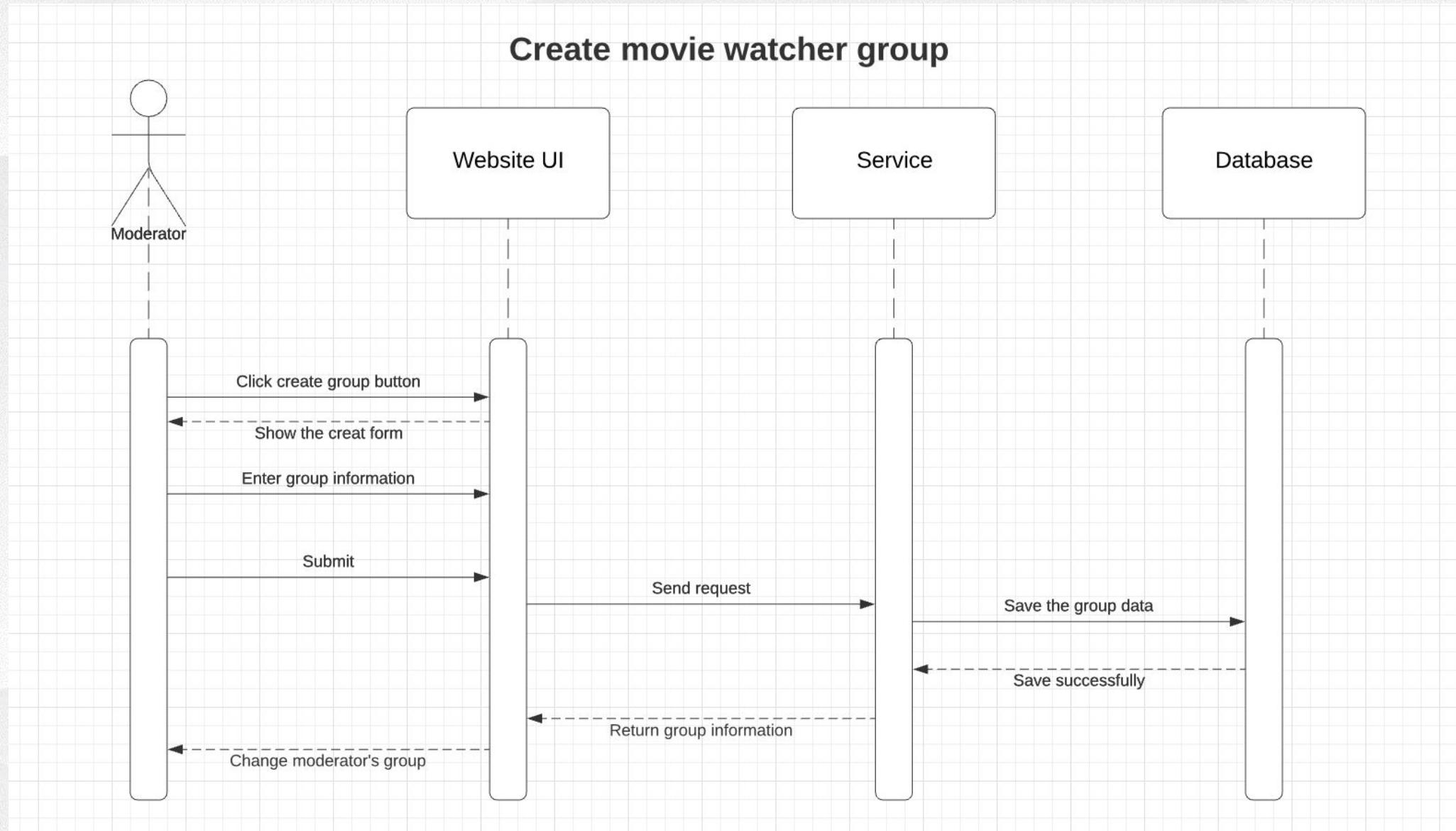
# 04

Part Four

## Sequence Diagram

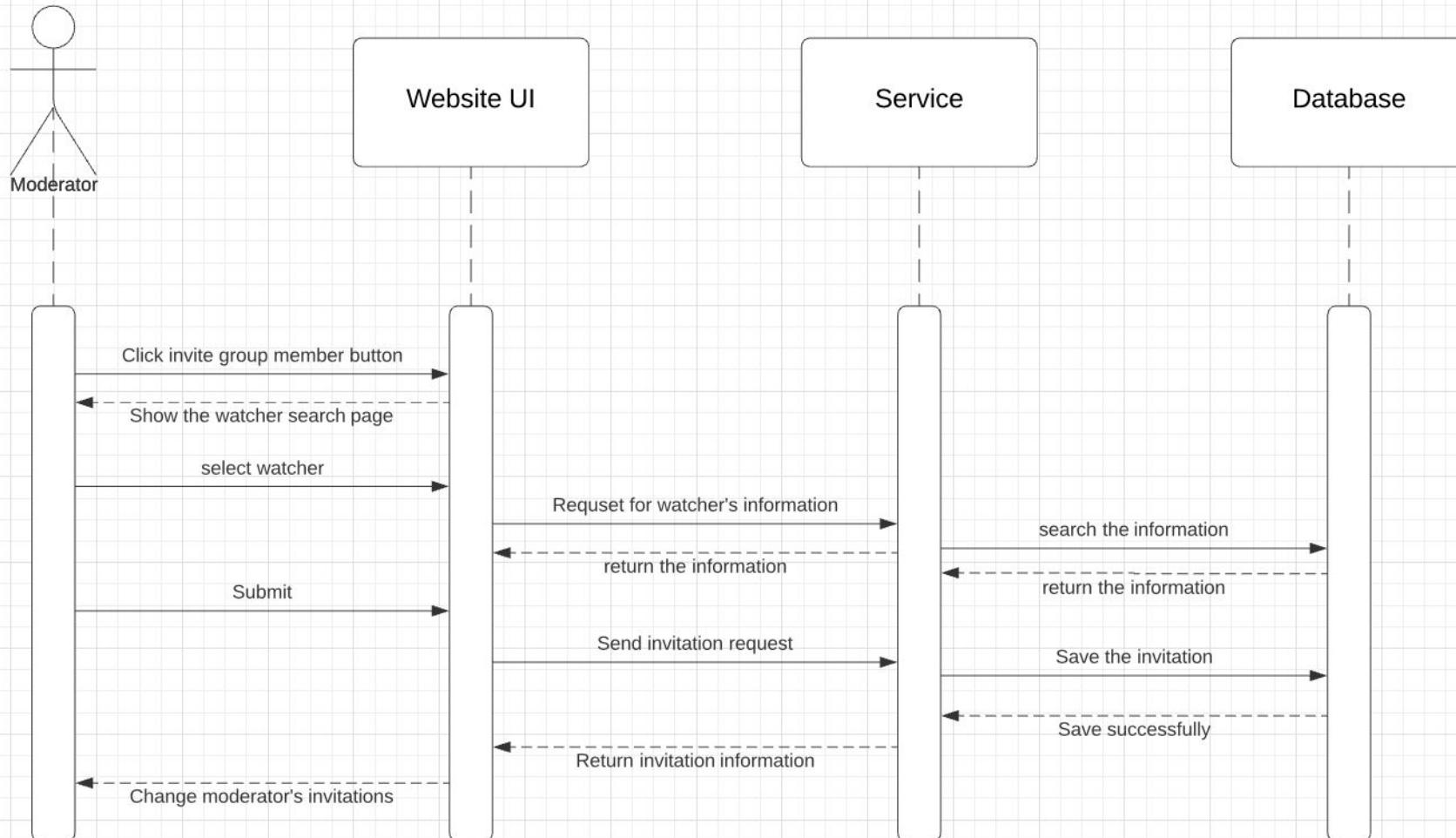


# Sequence Diagram

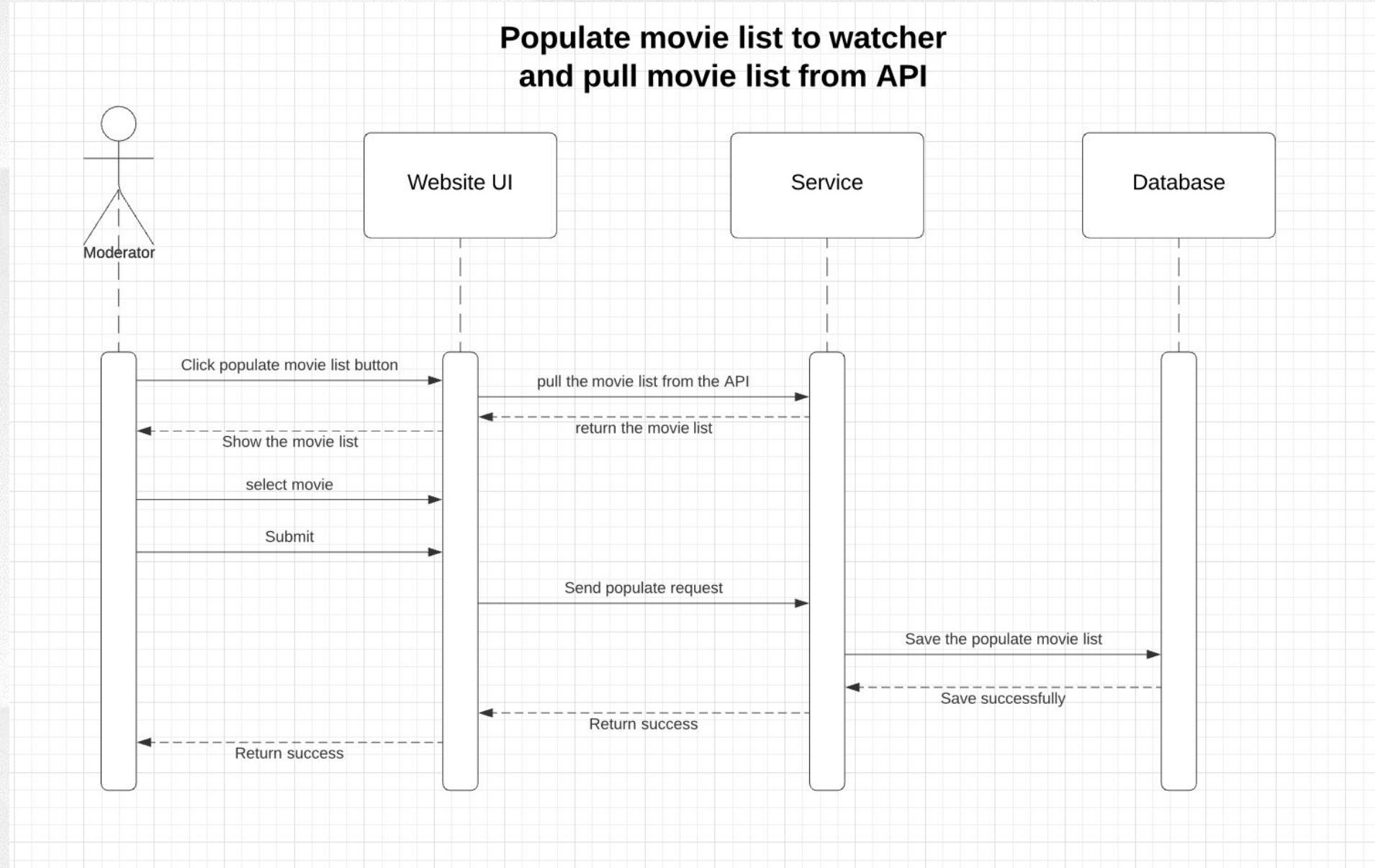


# Sequence Diagram

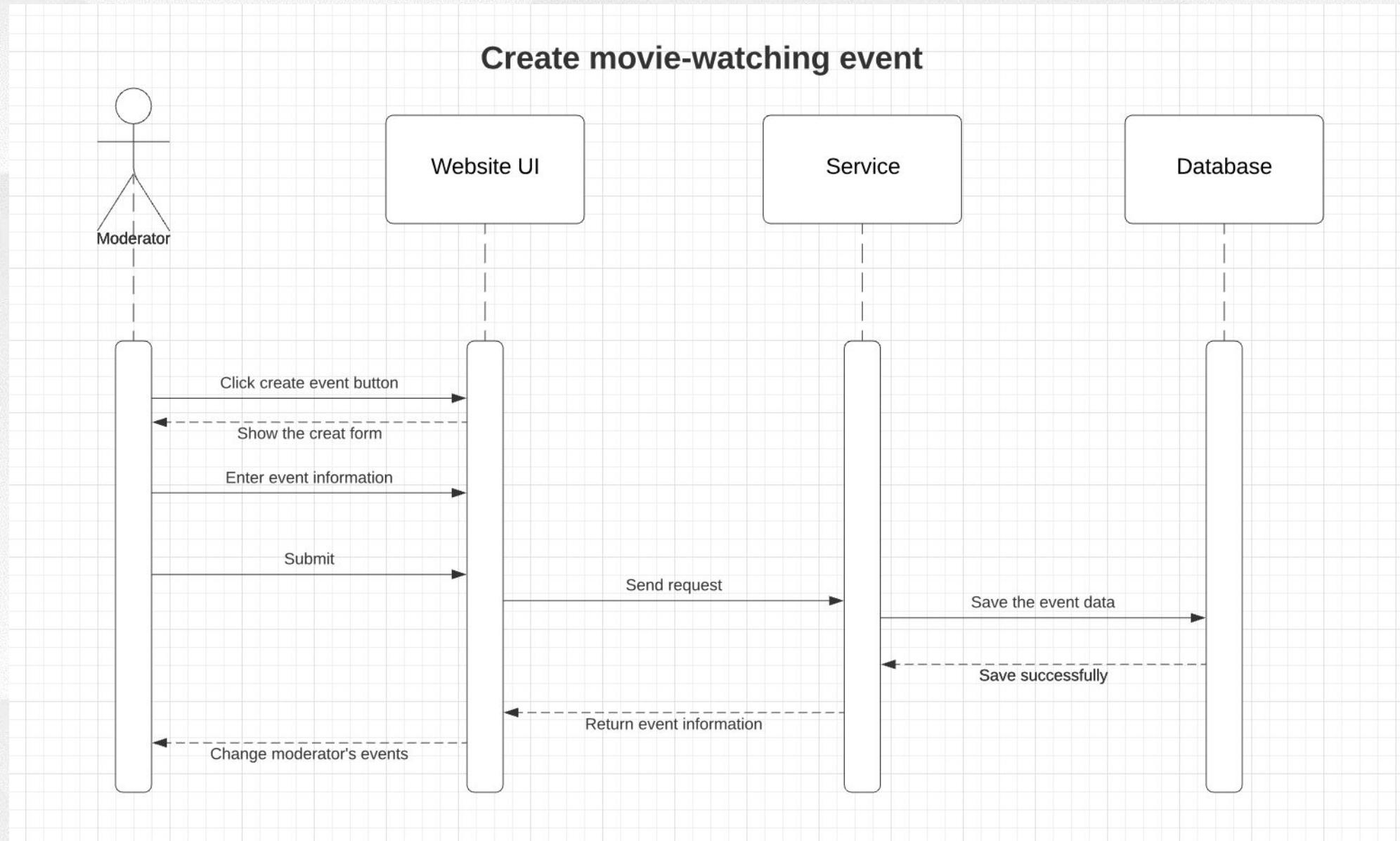
## Invite watcher to join the group



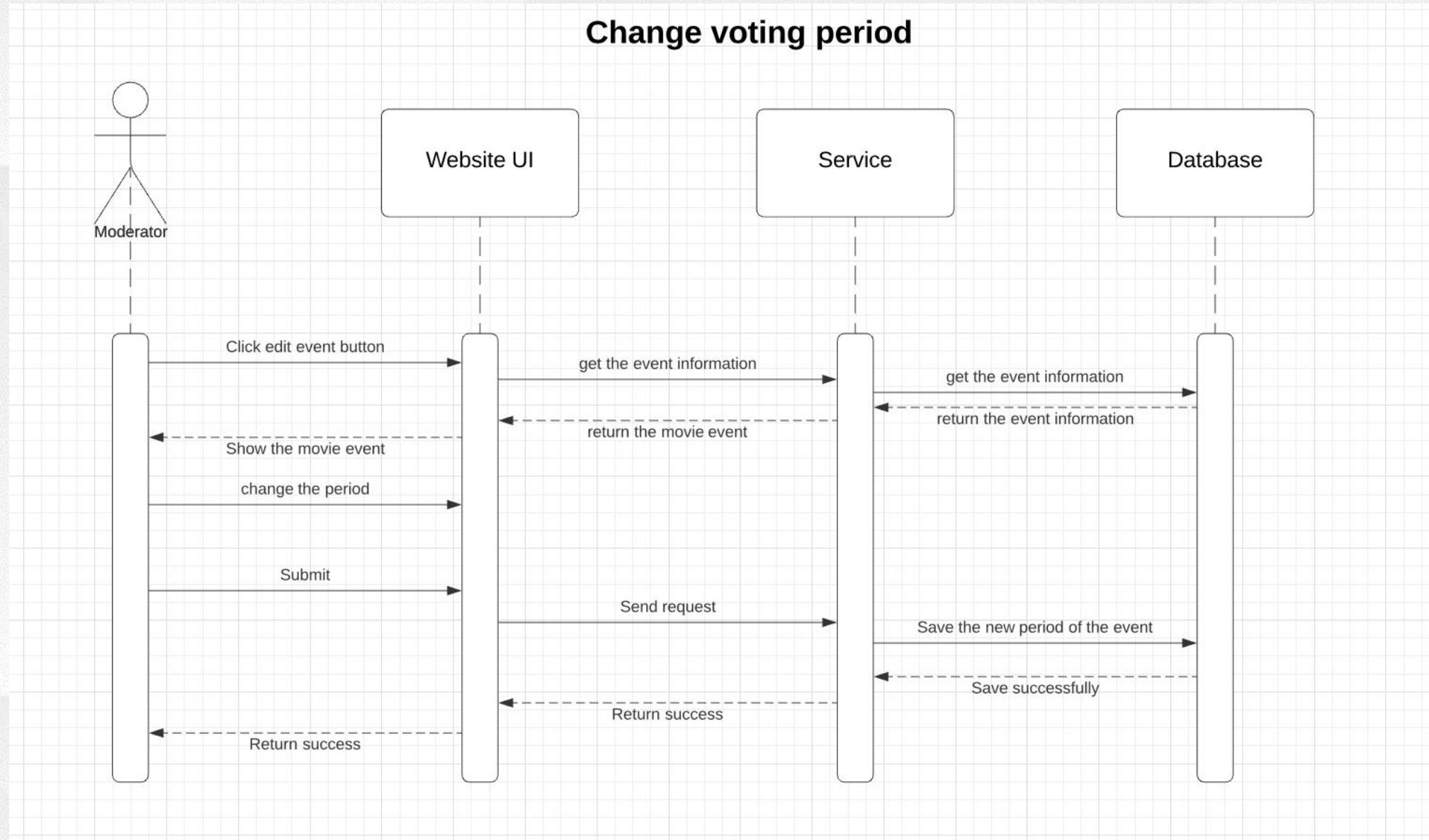
# Sequence Diagram



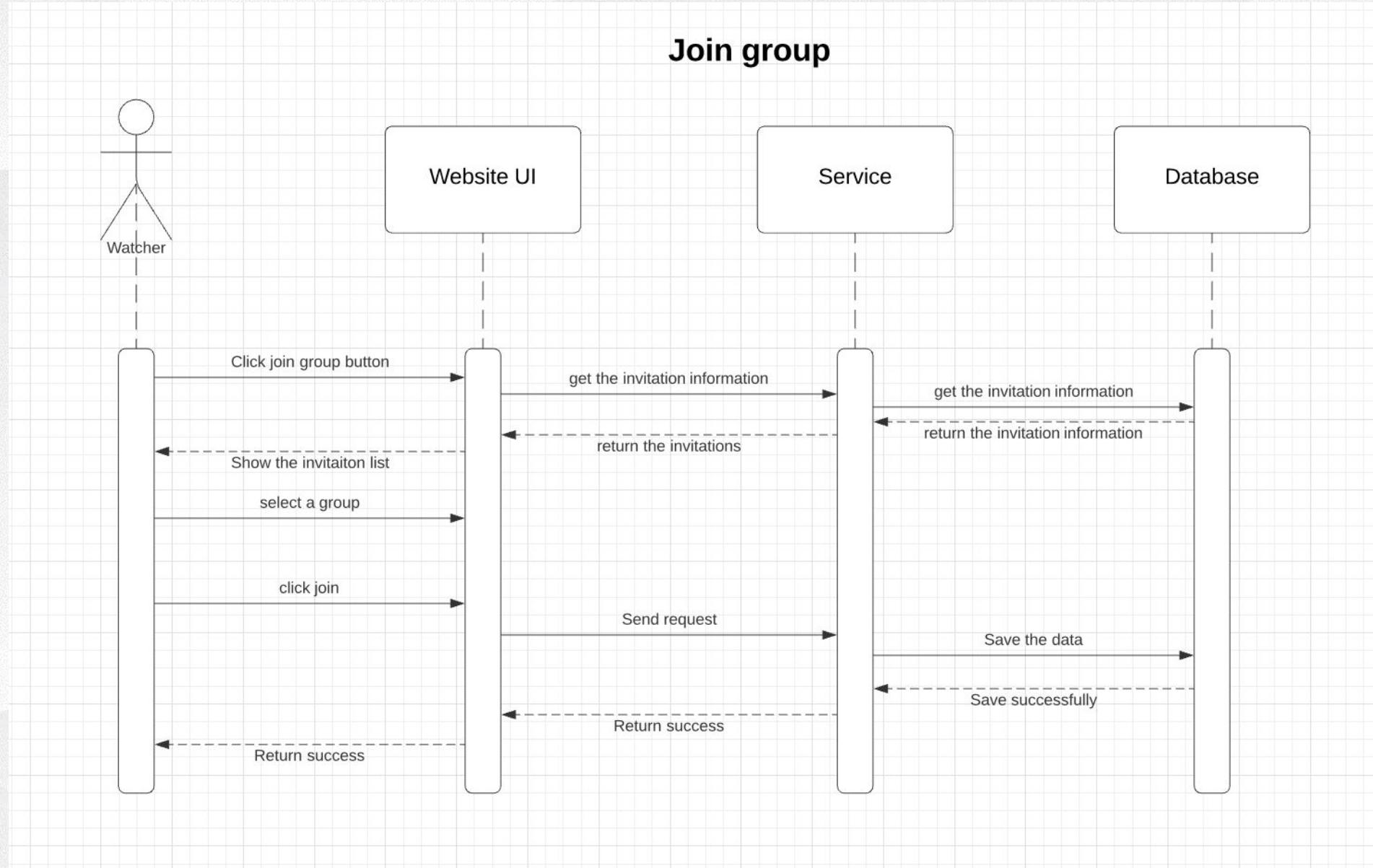
# Sequence Diagram



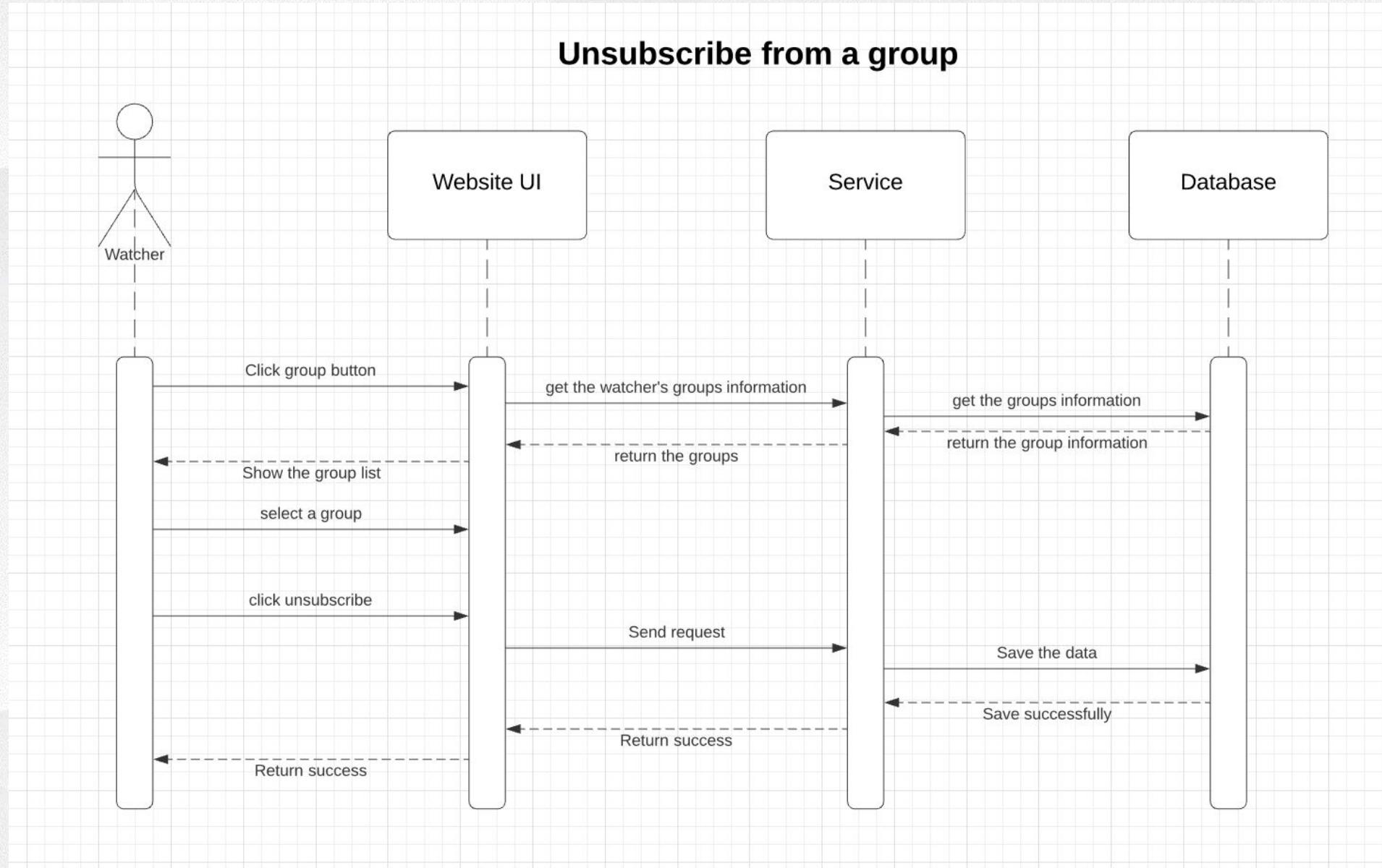
# Sequence Diagram



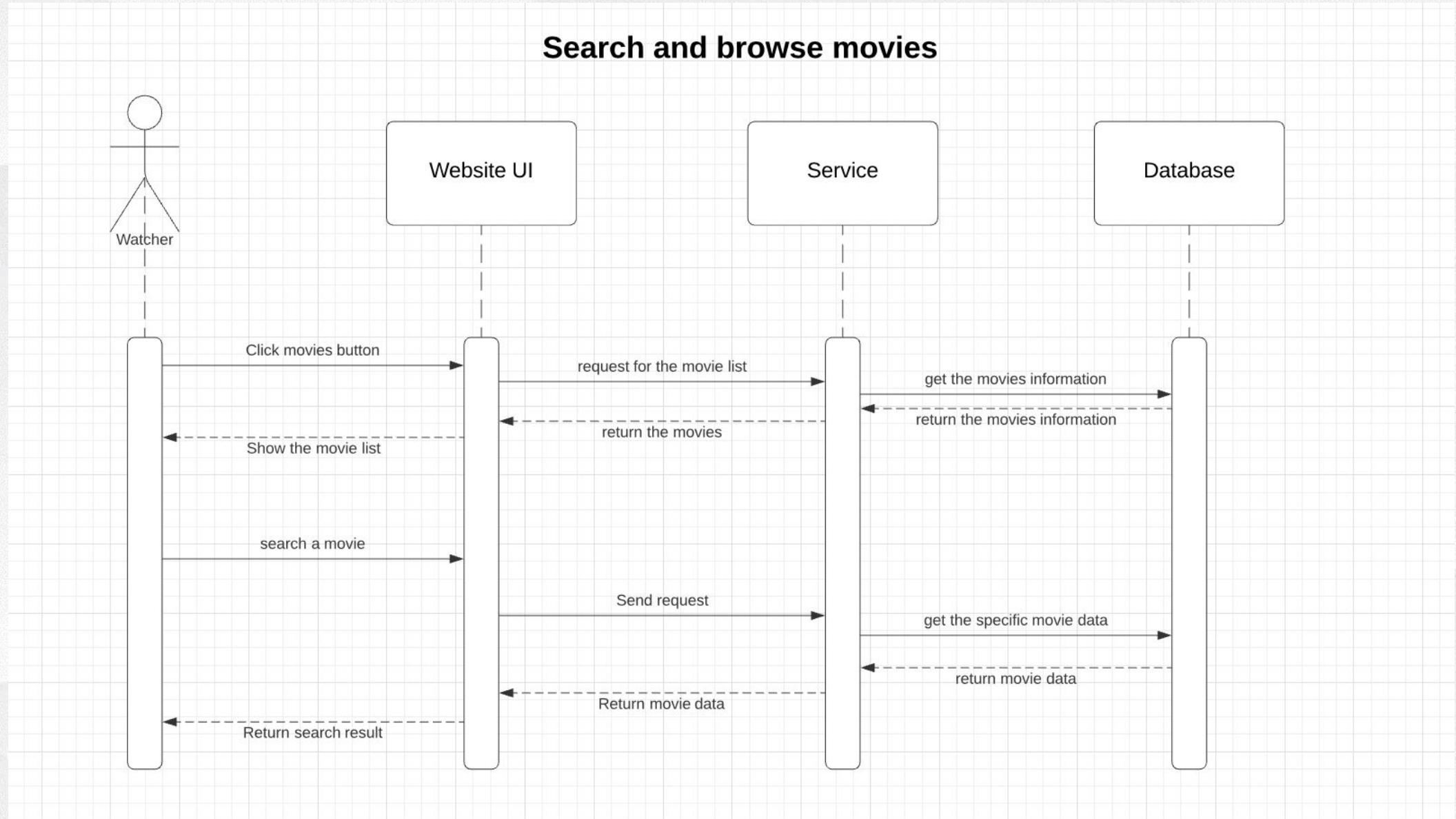
# Sequence Diagram



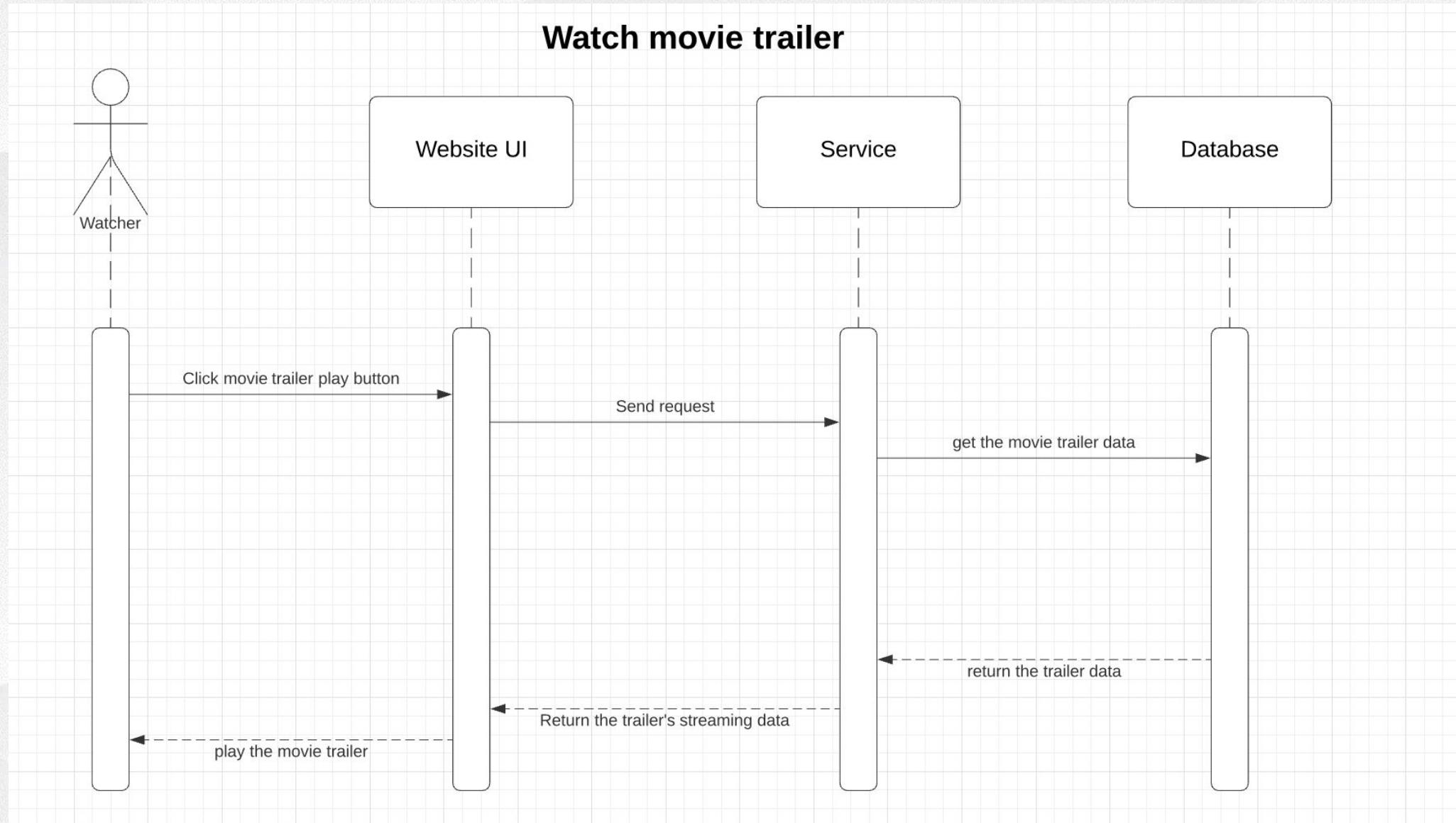
# // Sequence Diagram



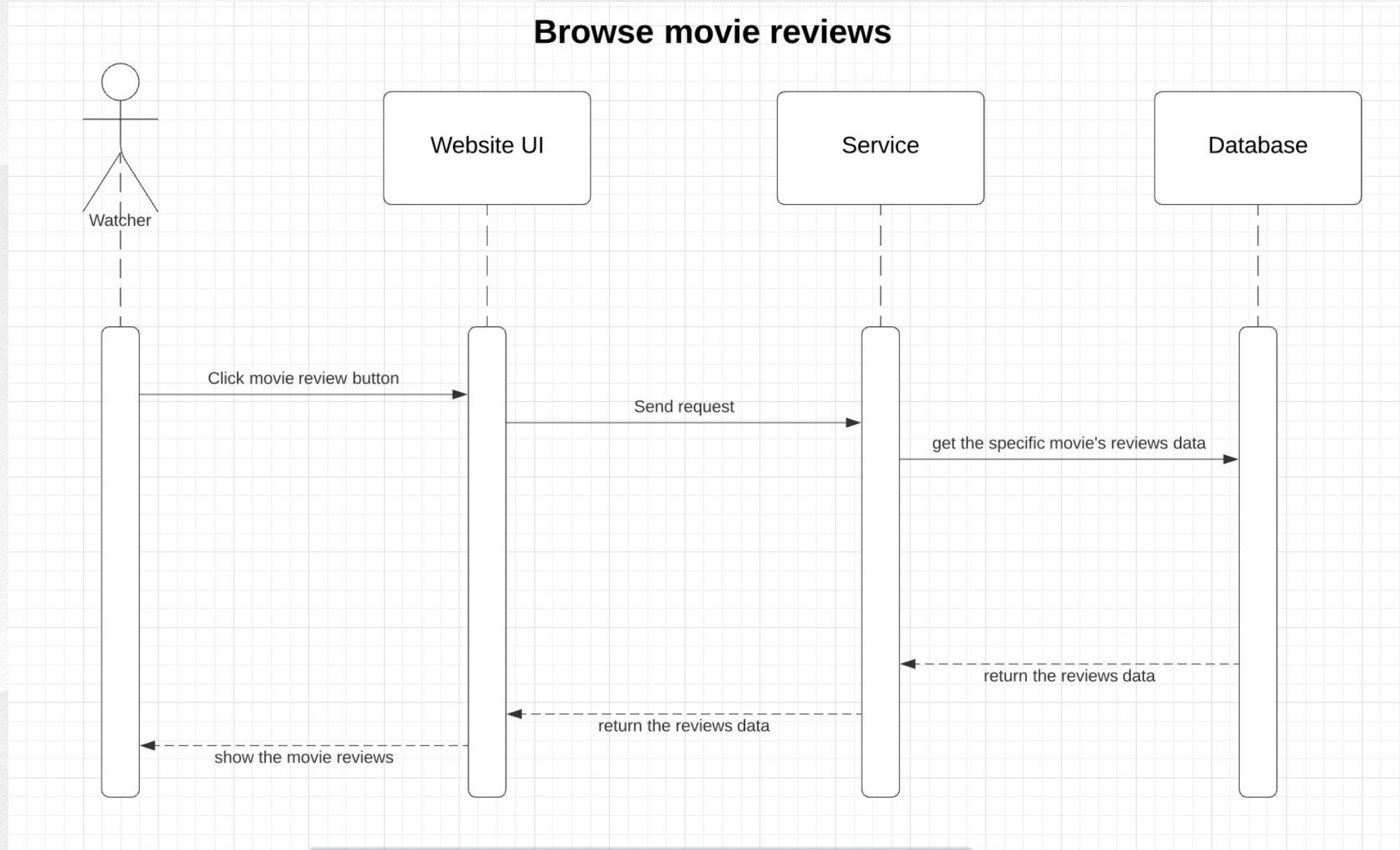
# // Sequence Diagram



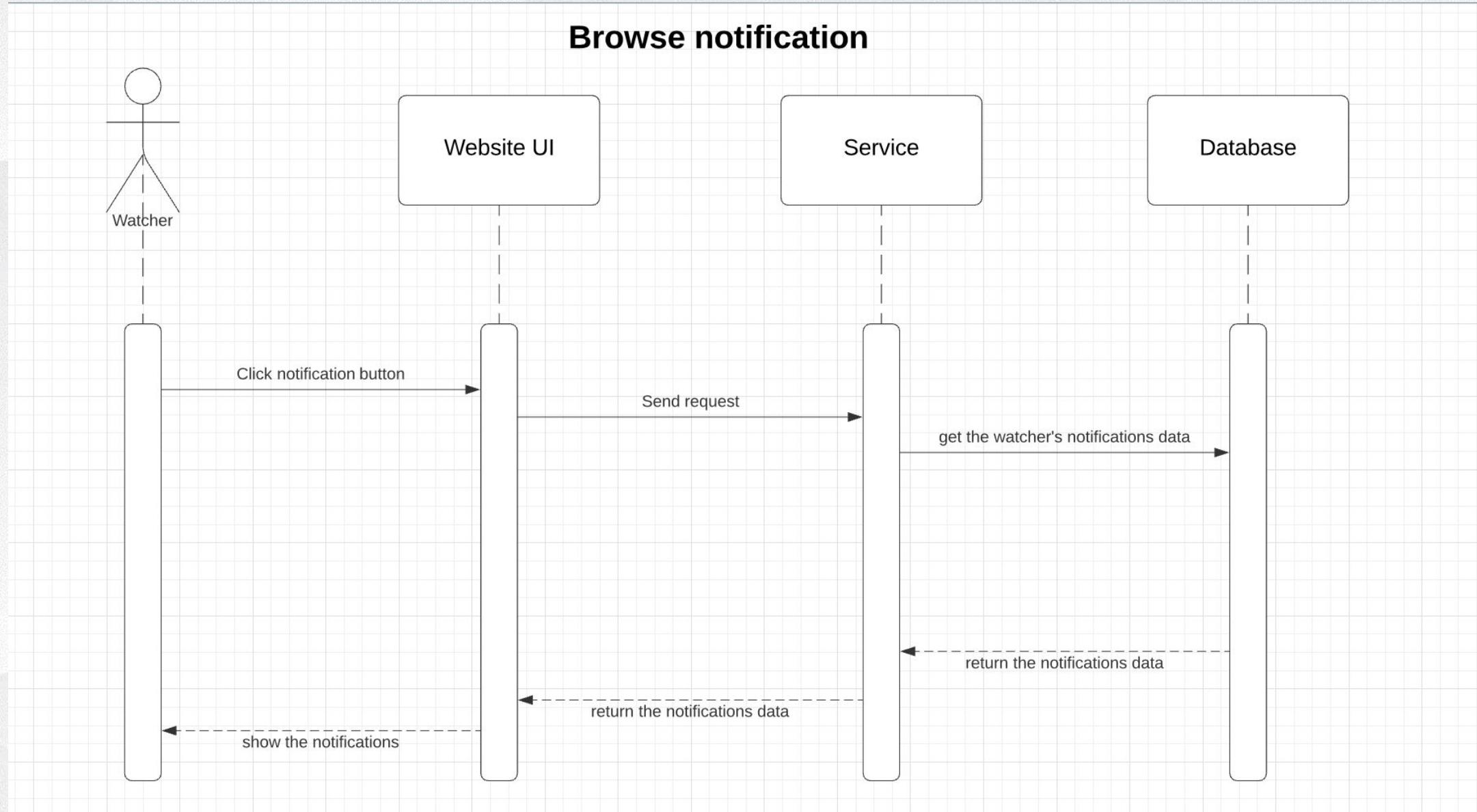
# // Sequence Diagram



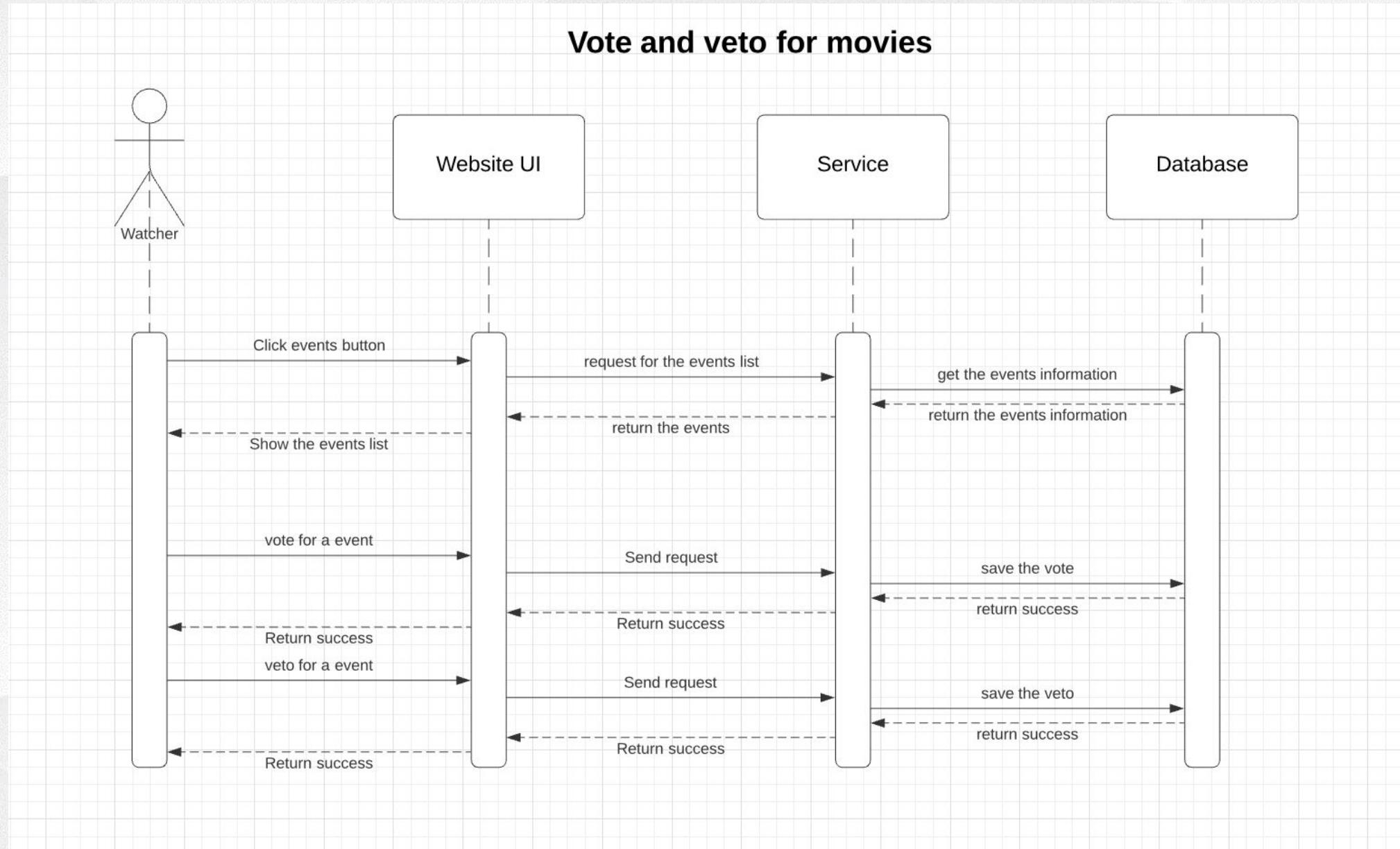
# Sequence Diagram



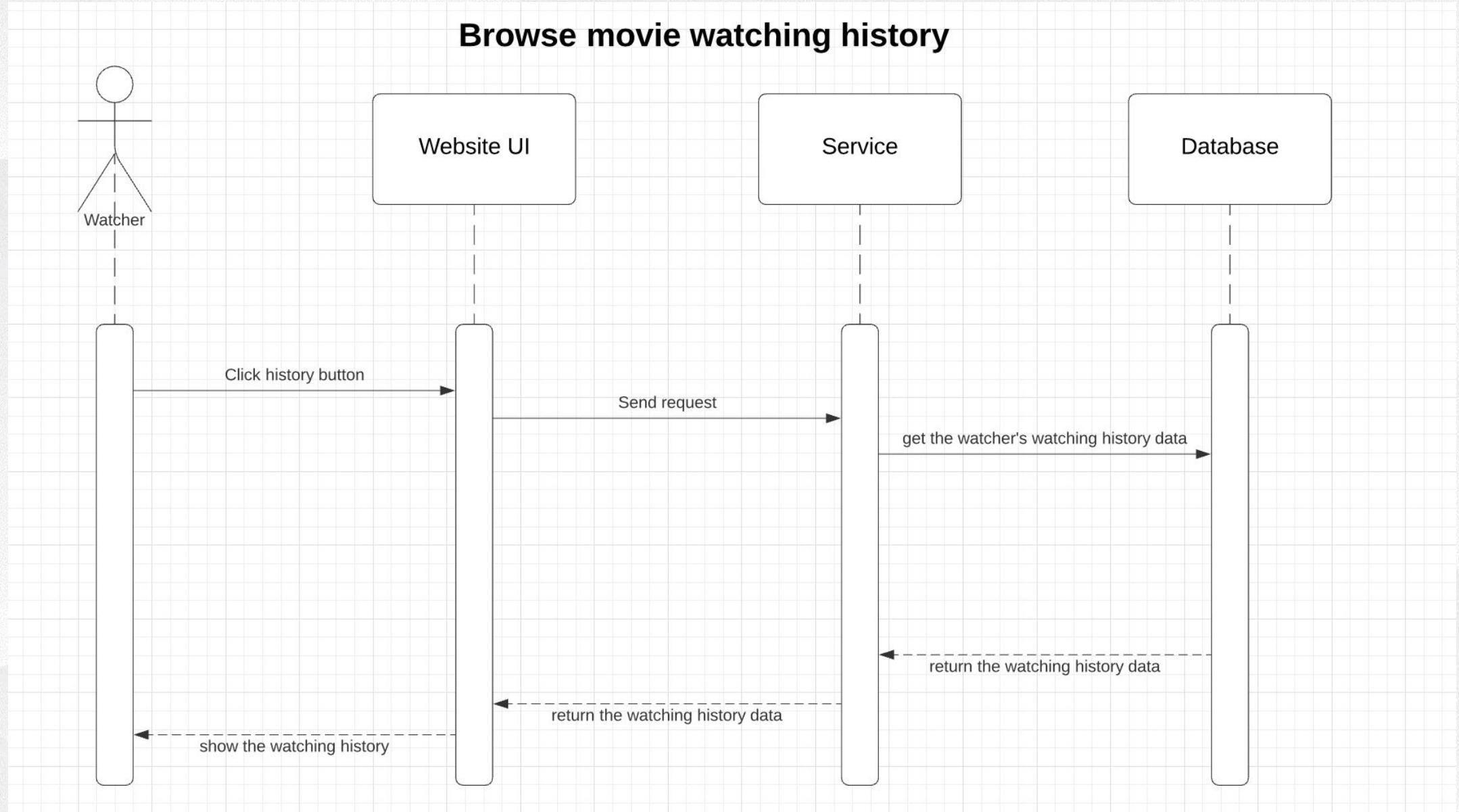
# Sequence Diagram



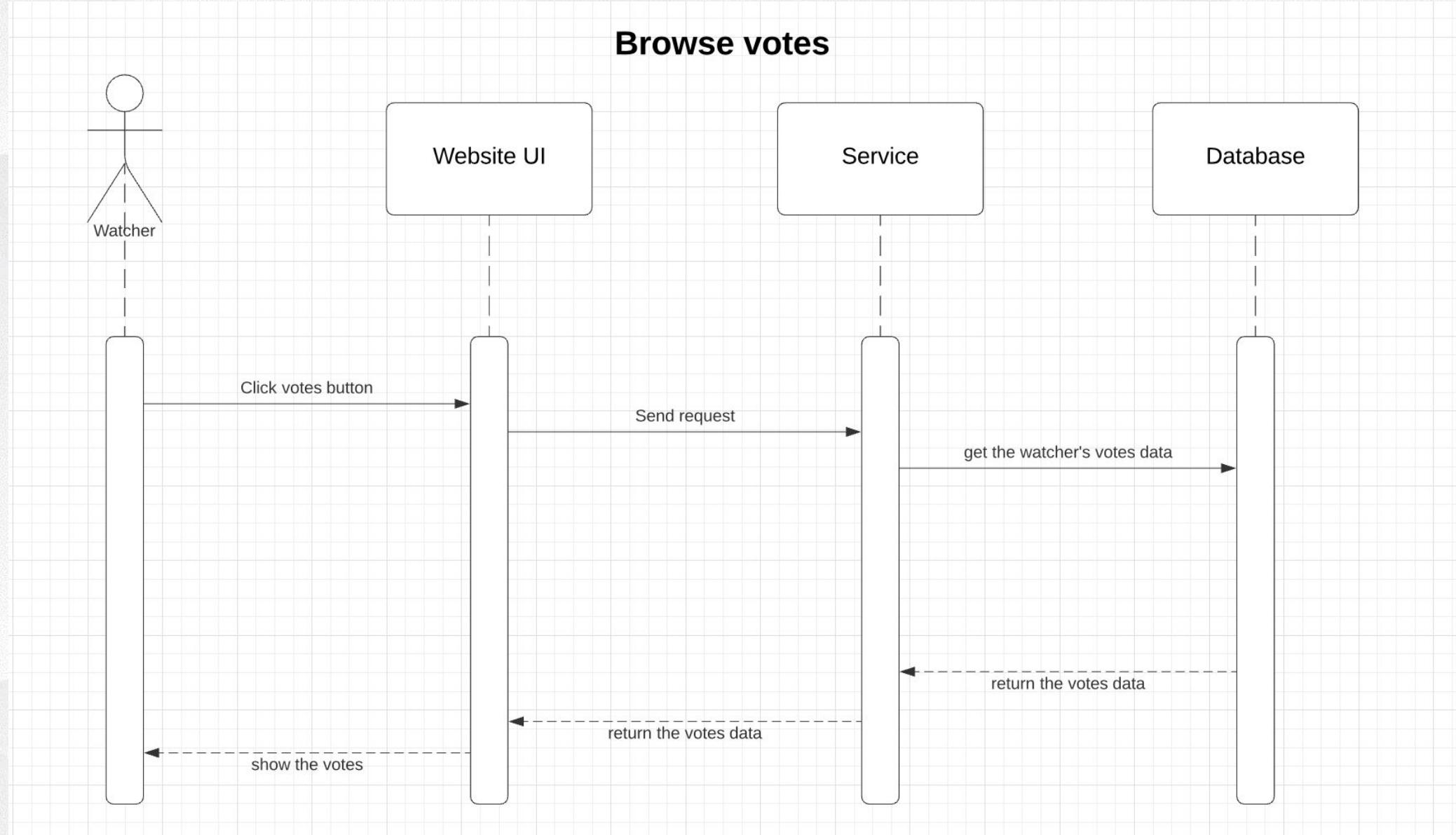
# Sequence Diagram



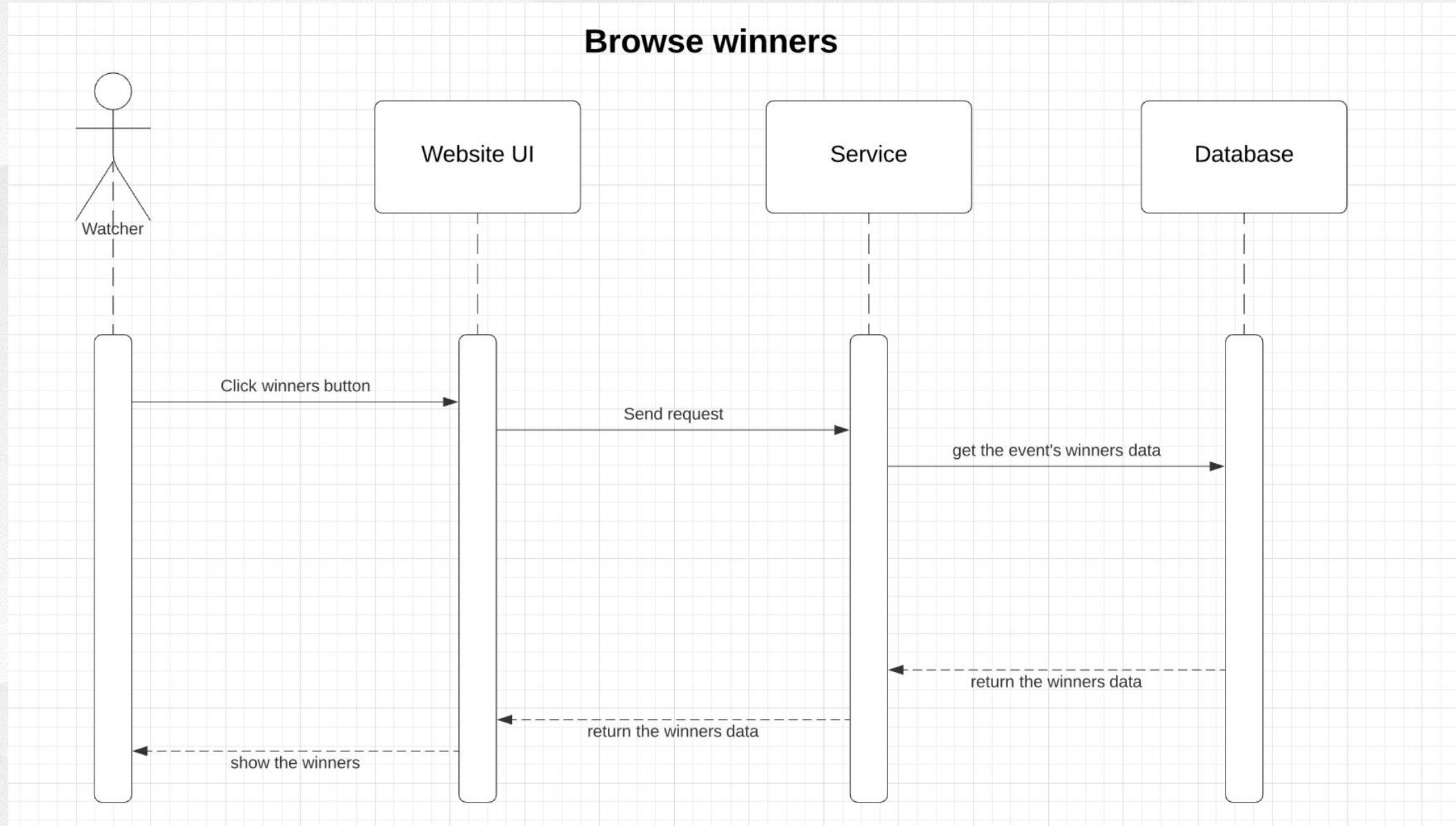
# // Sequence Diagram



# Sequence Diagram



# // Sequence Diagram



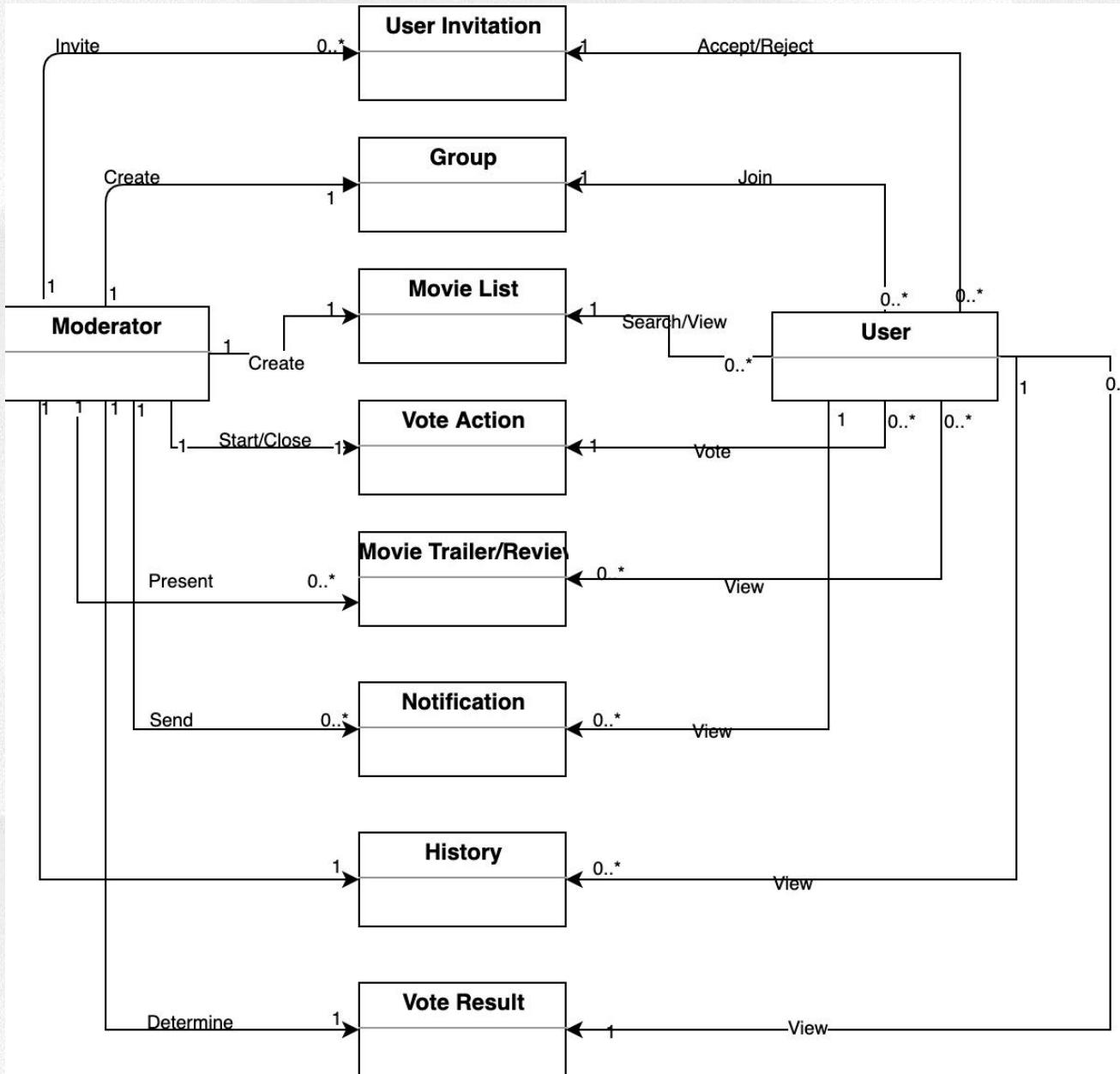
# 05

Part Five

# Class Diagram Model



# / | Class Diagram Model





# 06

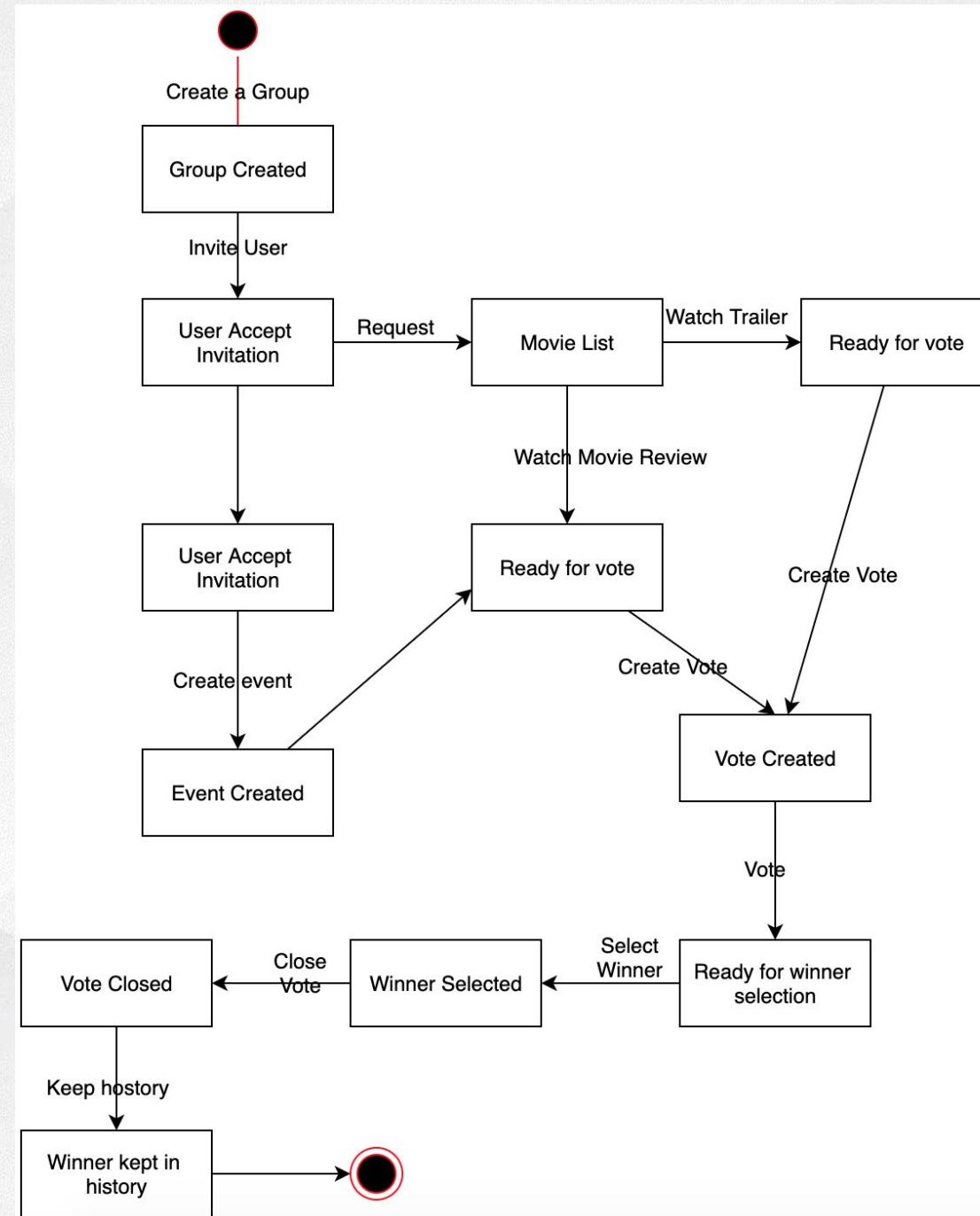
Part Six



# State Diagram



# State Diagram



# Thanks

