

Software Engineering III

Deliverable 1 – Requirements & Design Document

Web Application: Youtube

Video Presentation: <https://youtu.be/mS1gYkPt92M>

Use Cases and Use Case Diagrams

1. Member – this is the user that is already a member on Youtube. They can like, dislike, and upload videos and they also can leave comments. They can do a variety of things as seen in the Member Use Case Diagram.
2. Uploader – this is a Member that has decided to upload a video on Youtube. They can do everything a Member can do but they can also do additional actions onto the video they uploaded which other Members can't do. This can be seen in the Uploaded Use Case Diagram.
3. Guest – this is a user which is not a Member at all on Youtube. They cannot like, dislike or leave comments. They can view a video or a channel. This can be seen in the Guest Use Case Diagram.

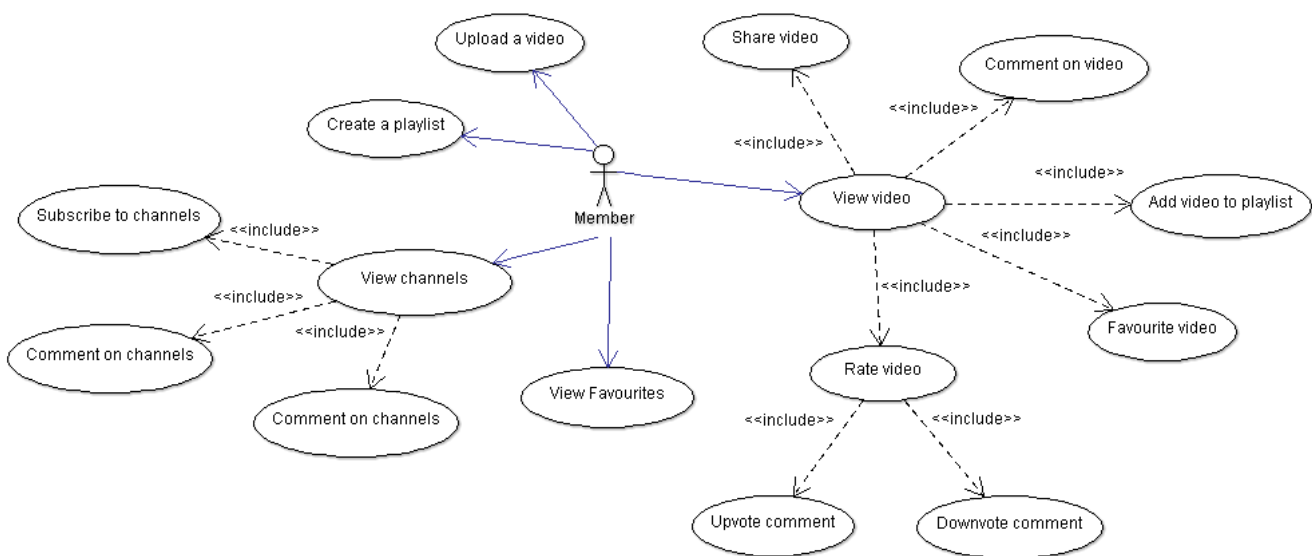


Figure 1 Member Use Case Diagram

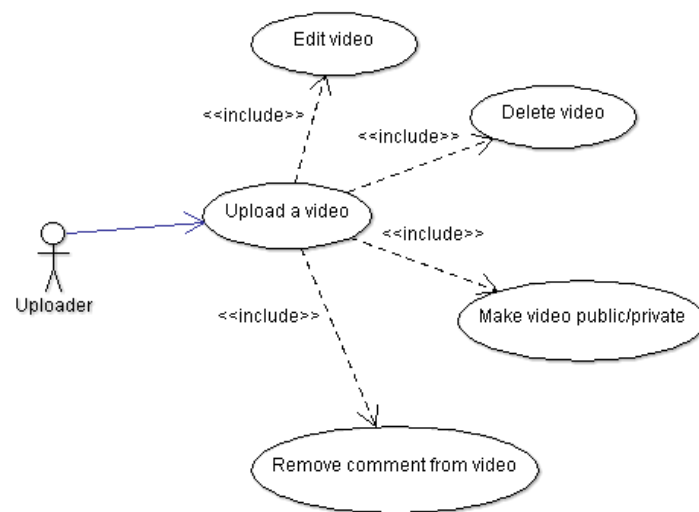


Figure 2 Uploader Use Case Diagram

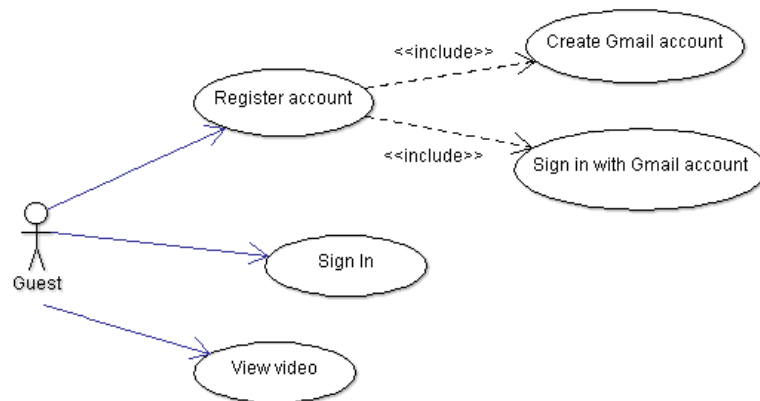
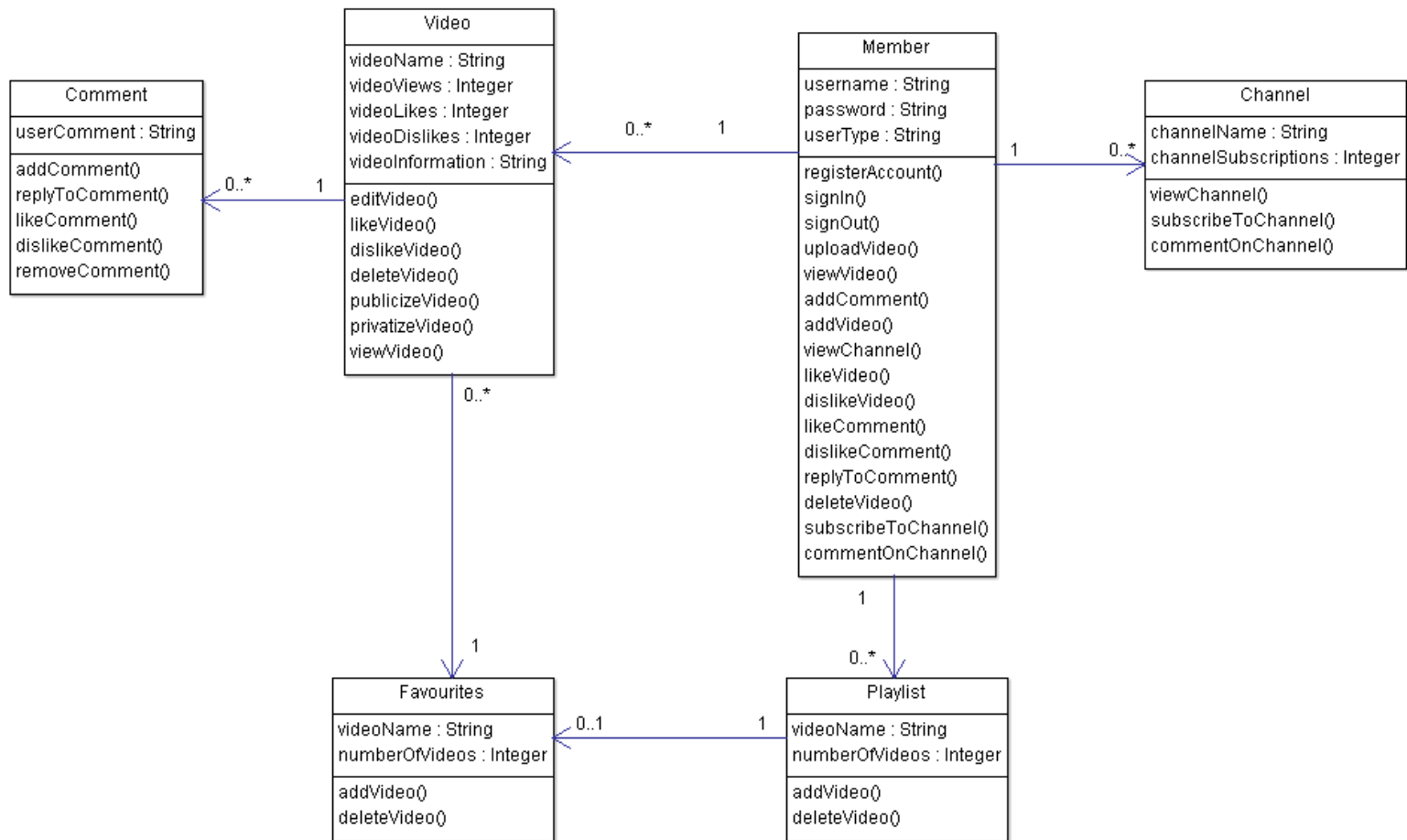
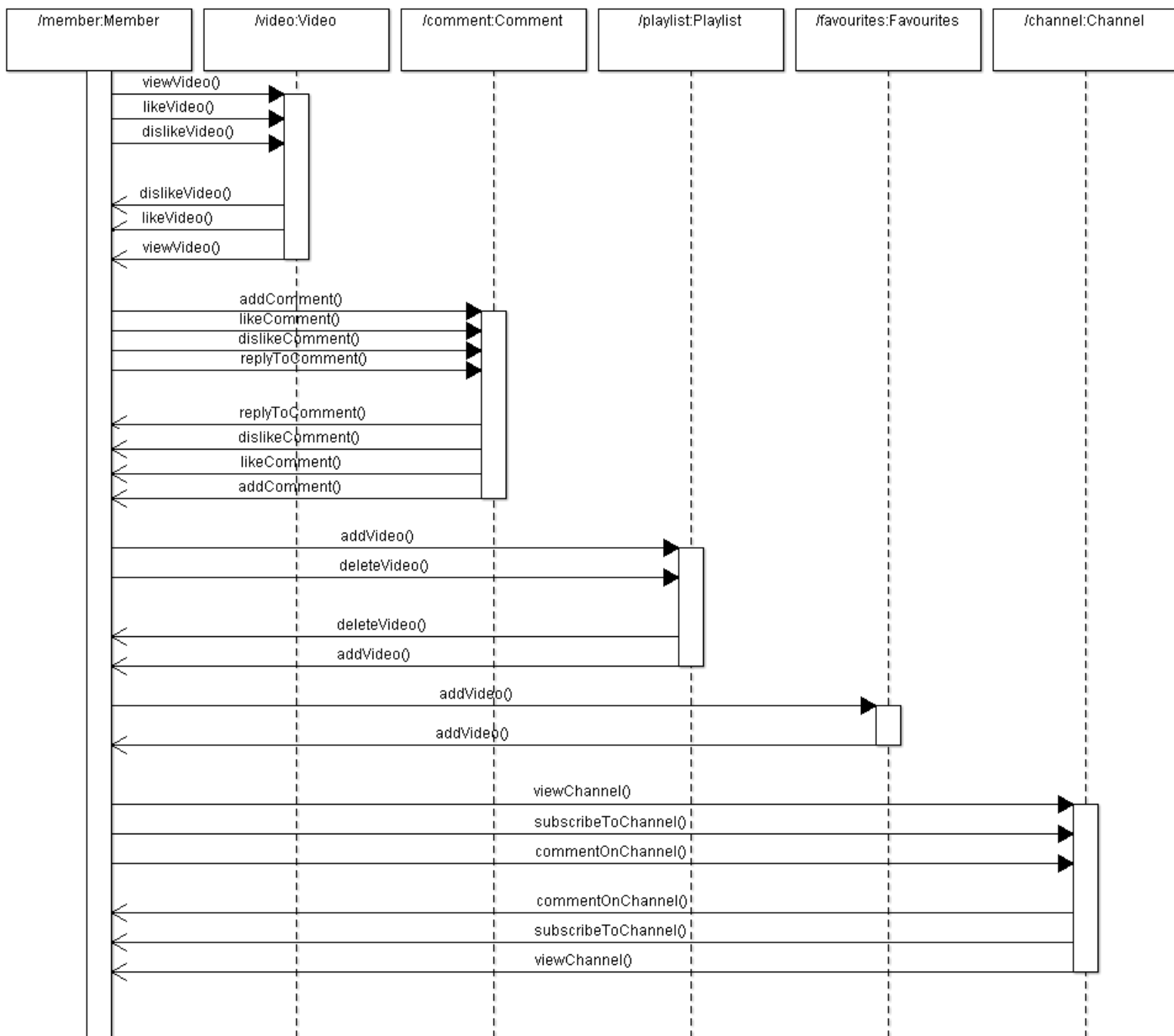


Figure 3 Guest Use Case Diagram

Class Diagram*Figure 4 Youtube Class Diagram*

This class diagram shows what a Member of Youtube can do. They can view as many videos as they like and they can comment as many times on one video. They can also add that said video as many times as they want into their favourites which is also a variant of a playlist. If they don't want to add that video into their playlist, they can create a new playlist and then add that video as many times as they want again. They can only have 1 'favourites' playlist in their list of playlists. They can view as many channels as they want.

Sequence Diagrams*Figure 5 Member Sequence Diagram*

The Member can do everything as stated. They can also do Uploader actions if they only upload a video.

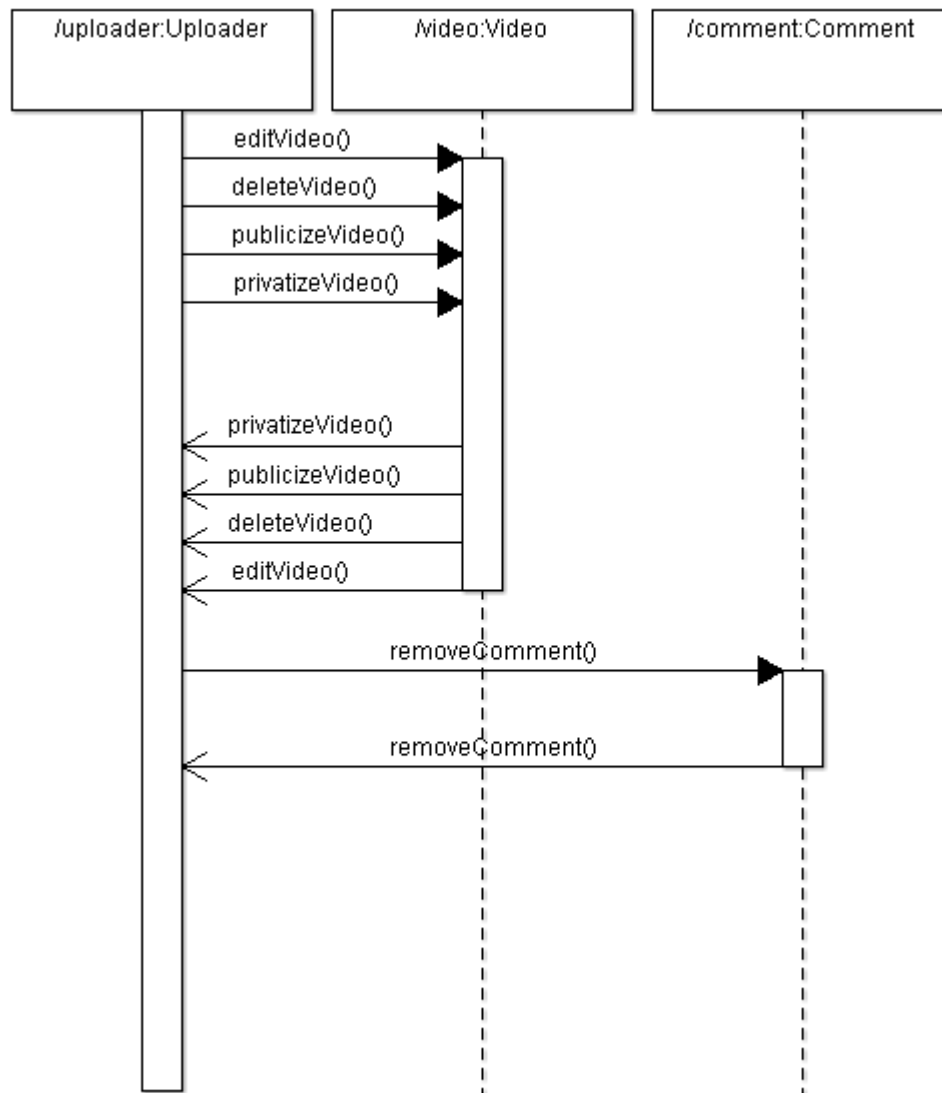


Figure 6 Uploader Sequence Diagram

The Uploader can do everything the Member can do as well as control and edit their videos while also being able to remove any comments made on their videos.

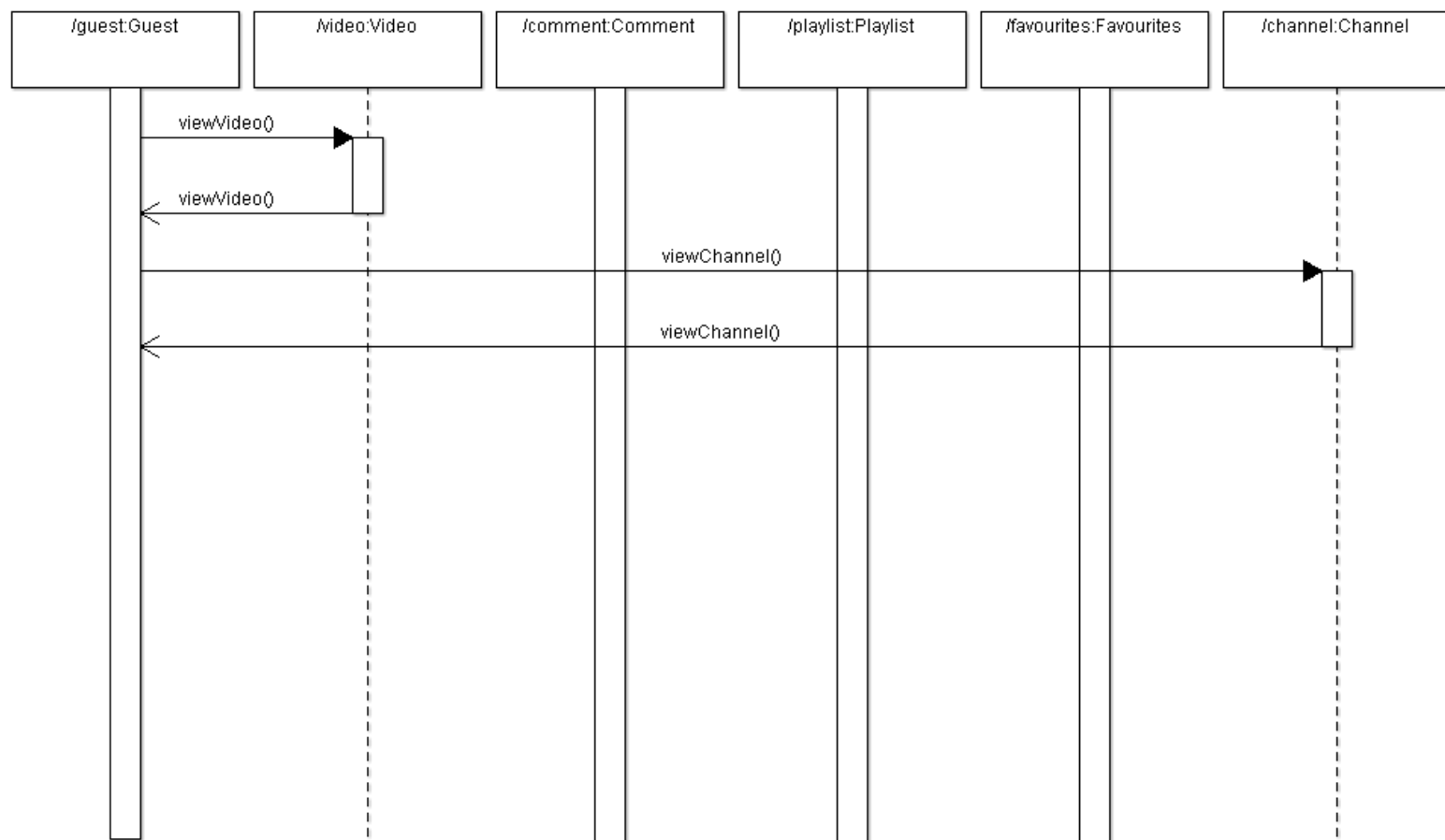


Figure 7 Guest Sequence Diagram

This tells you all the main actions that can be carried out if you're a Guest user. You can overall only view a video and view a channel on Youtube.