Experiment no- 05

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Class: TY(A)

Batch: T-2

Title:

Draw a sequence diagram.

A sequence diagram is a type of UML diagram that illustrates how objects interact with each other in a particular scenario or use case. As for YouTube, the following sequence diagram describes the basic flow of about YouTube videos:

> ➢ User opens the YouTube website or app.
> ➢ YouTube server verifies the user's login credentials.
> ➢ User searches for a specific video or browses through the recommended videos.
> ➢ YouTube server fetches the requested video or recommended videos and displays them on the user's device.
> ➢ User clicks on a video to play it.
> ➢ YouTube server streams the video content to the user's device.
> ➢ User interacts with the video by pausing, rewinding, or changing the volume.
> ➢ YouTube server records the user's interaction and updates the user's watch history.
> ➢ User can also leave comments, likes, or dislikes on the video, which are saved on YouTube's servers.
> ➢ YouTube server recommends additional videos based on the user's watch history, comments, and likes/dislikes.

sd YouTube

User: Actor1

YouTube Server

1 : opens youtube

2 : verifies user

3 : searches for a specific video or browse through recommended videos

4 : Display requested or recommended video on users device

5 : play video

6 : Streams the video content

7 : pause, rewind, change volume

8 : records user interaction, updates watch history

9 : leave comments, likes or dislikes

10 : recommends additional videos based on watch history, comments, and likes or dislikes.