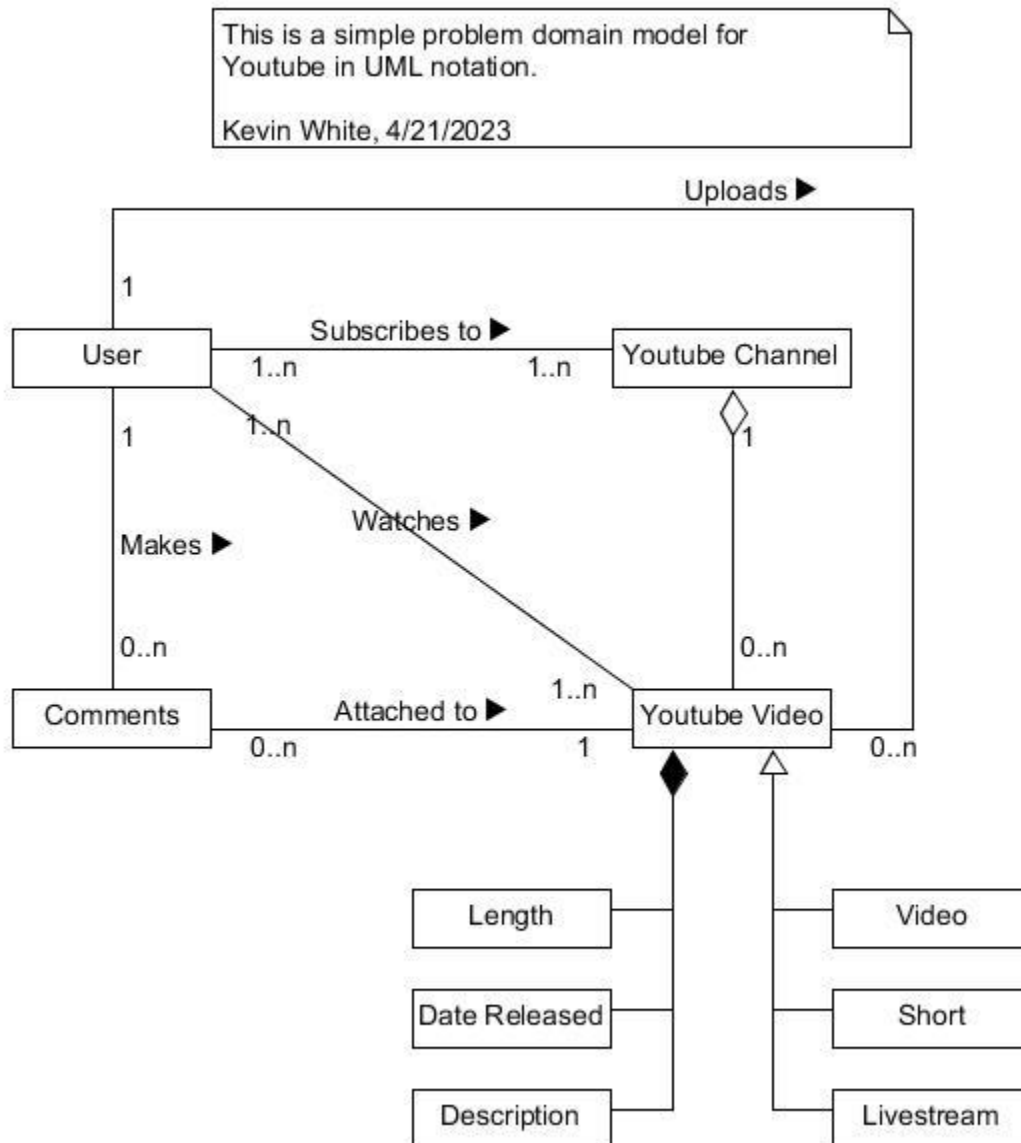


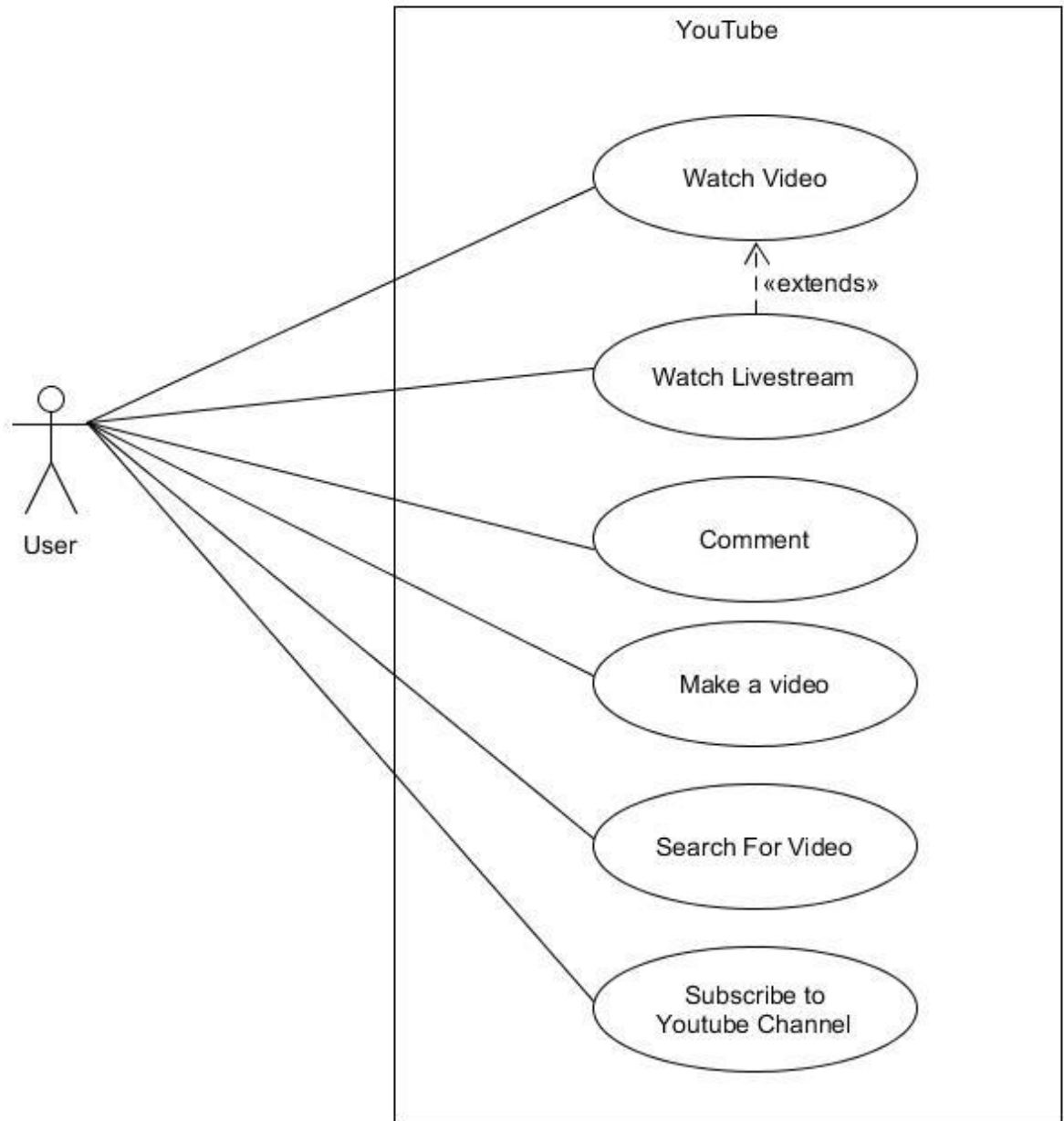
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1. I am creating my models off the social media platform YouTube, this document is about the base/free version of YouTube.
2. Problem Domain Model for YouTube:



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3. Use Case Diagram for YouTube



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4. Use Case Diagram

Use Case ID	UC-1	
Use Case Name	Watch a Video	
Brief Description	This use case describes what is like to find and watch a video on YouTube	
Frequency of Use	High-99%	
Priority	High	
Current Version	1.0	
Date of First Version	4/21/2023	
Date of Last Version	4/21/2023	
Created By	Kevin White	
Last Update By	Kevin White	
Approved By	N/A	
Assumptions	We are using the base version of YouTube, with ads. The user is watching this on a logged in google chrome account.	
Primary Actor	Everyday User	
Secondary Actor/s	N/A	
Preconditions	The User is already logged into the system	
Postconditions	The user is logged in and has watched a YouTube video	
Trigger	N/A	
Main Success Scenario	User Actions	System Actions
	1. The user opens the application.	2. The system syncs the YouTube log in with the currently logged in default chrome profile. 3. The System Displays the YouTube homepage.

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	<p>4. The user browses the homepage for a video.</p> <p>5. The user clicks on a video.</p> <p>8. The user clicks the "Skip Add" button.</p> <p>10. The user Clicks full screen on the video.</p>	<p>6. The system takes the user to the videos YouTube page.</p> <p>7. The system gives the user and add before the video.</p> <p>9. The system removes add and gives user the video.</p> <p>11. The video takes up the full screen.</p>
Alternate Scenarios	<p>10.a The user Can't understand the video.</p> <p>11.a The user clicks the settings options for the video.</p> <p>13.a The user clicks on the audio tracks option.</p> <p>15.a The user clicks on the audio track they can understand.</p> <p>17.a The user is listening to a dubbed version of the same video in their language of choice.</p>	<p>12.a The system displays options for the video.</p> <p>14.a The system provides available audio tracks for the user.</p> <p>16.a The system changes the audio track to the one picked by the user.</p>
Additional Notes (Constraints, etc.)	Not all videos have Alternative audio tracks, these have to be uploaded by the video creator.	

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5. Requirements

Req ID	Priority	Requirement Text
YouTube-Func-Req-1	High	The System shall recommend the user content to keep the user on the platform for longer.
YouTube-Func-Req-2	High	The System shall allow user to easily reset.
YouTube-Func-Req-3	Medium	The System shall allow the user to search though the systems video database.
YouTube-Func-Req-4	Low	The System shall render videos to at least 1080p for a better viewing experience.
YouTube-Hard-Req-1	High	The System shall include at least 1 screen to view the UI.
YouTube-Hard-Req-2	Low	The System shall include at least 1 NIC, to establish internet connection.
YouTube-Use-Req-1	High	The System shall be intuitive and easy to learn, for any user.
YouTube-Use-Req-2	Medium	The System shall accept logins for multiple devices at once.
YouTube-Pref-Req-1	High	The System shall send data to the user device at a minimum 0.7Mbps
YouTube-Pref-Req-2	High	The System shall not redirect user to an unselected video.
YouTube-Sec-Req-1	High	The System shall remove public connection between a user's email and YouTube account.
YouTube-Sec-Req-2	High	The System shall notify the user whenever they are leaving Youtube.com through a link

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6. Test case

Test Case ID	UC-1
Test Case Name	User Interface Testing
Brief Description	This test case shall test that all aspects of the user interface work as intended.
Planned Test Duration	15 Minets
Current Version	1.0
Date of Last Version	4/21/2023
Created By	Kevin White
Last Update By	Kevin White
Approved By	N/A
The version of Software Under Test	1.0
Test Engineer to Conduct the Test	Kevin White
List of Test Support Software	Windows 11, Google Chrome
List of Test Support Hardware	8 GB Memory, i7 GPU, Wireless Adapter

Test Case Scenario

Test Step Number	Input	Expected	Result (Pass/Fail)
1	Input "Youtube.com" into internet browsers search bar.	The System should start to run.	Pass
2	The user types "Marques Brownlee" into the search bar on the top of the website.	The System should pull up Marques Brownlee's YouTube channel banner and related videos.	Pass
3	The user clicks on the channel banner with the title "Marques Brownlee".	The System should take the user to Marques Brownlee's YouTube channel.	Pass
4	The user clicks the "Shorts" tab	The System should display all Shorts uploaded by the user Marquese Brownlee	Pass
5	The user clicks the "Live" tab	The System should display all livestreams hosted by the user Marquese Brownlee	Pass
6	The user clicks the "Video" tab.	The System should display all videos uploaded by the user Marquese Brownlee	Pass

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7	The user clicks on the first video in the video list.	The System should take the user to the video clicked on by the user	Pass
8	The user clicks on the description box with view count and time since release	The System should expand the description (If more is available)	Pass
9	The User Click the play icon	The System should start playing the video	Pass
10	The user hovers over the sound icon and drags the node left and right	The system should adjust the volume accordingly to the node	Pass