Use-case report

1.   Use-case model
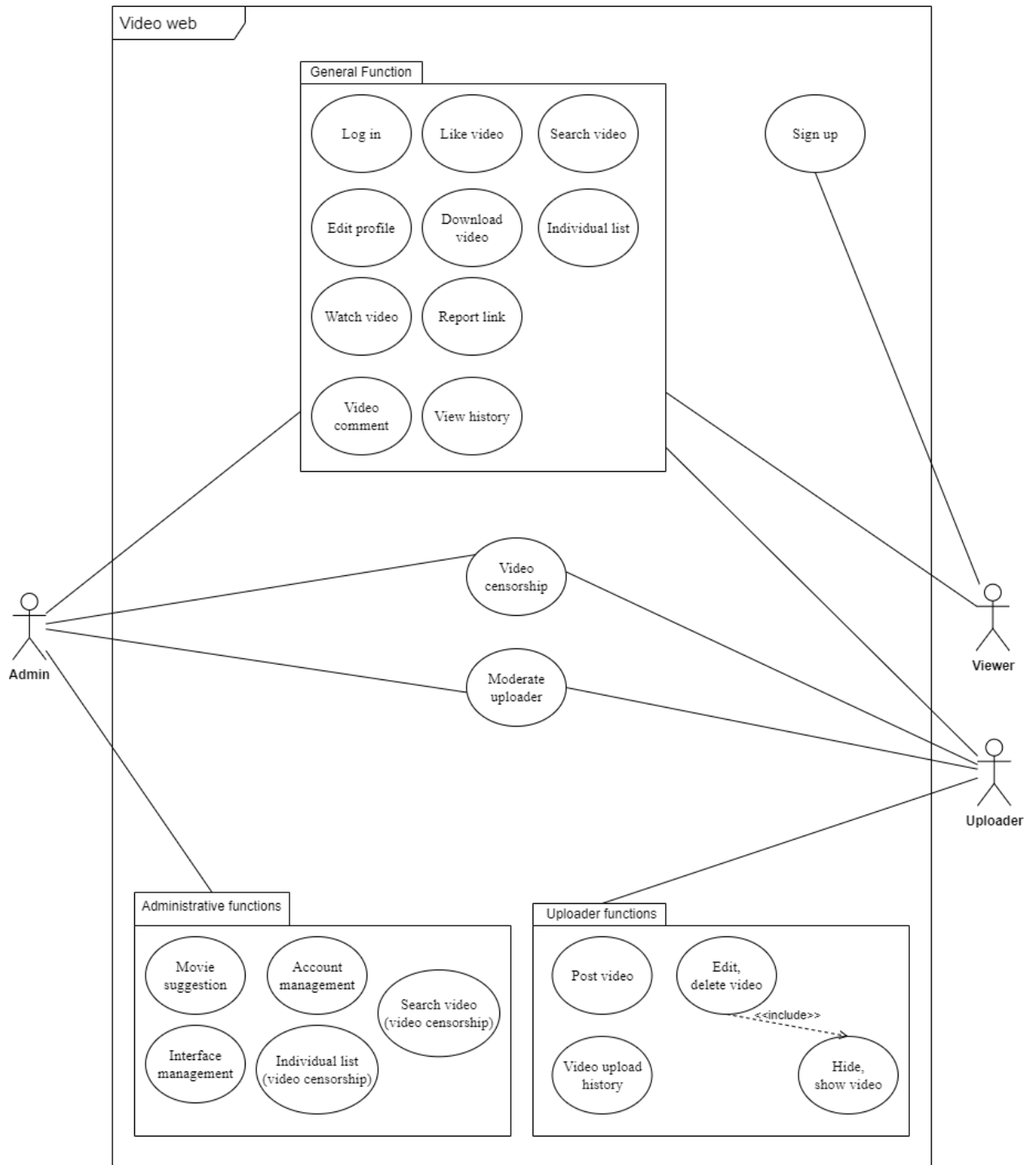
2.   *Use-case specification*

2.1.   Watch videos

Use case ID	U01
Name	Watch video
Summary	Users can watch videos even if they are not logged in (but will not save video history)
Actor	Viewer, uploader, admin
Pre-condition	Can access the website, have an internet connection
Post-condition	Can watch videos, rewind, pause videos...
Flow	1. Visit the website 2. Video display system 3. User clicks on a video 4. The system plays the selected user's video
Alternative flow	1. In step 1, if the website fails or accesses the wrong website name, the video will not be displayed 2. In step 4, if the video link is broken, the system will display an error or the video cannot load the image.
Non-functional constraint	Web compatible with many devices videos can be viewed at any time, except during web maintenance

2.2.   Search videos

Use case ID	U02
Name	Search video
Summary	Users need to enter information related to the video, or hashtag, the registrant named web will list the videos available on the web that the user needs to find.
Actor	Viewer, uploader, admin
Pre-condition	Site access successful Have an internet connection
Post-condition	Find videos that match certain requirements or have a certain relevancy
Flow	1. Visit the website 2. The system displays the website homepage 3. Click the search bar 4. Enter the video name you want to search or any related description information 5. Click the search icon 6. The system searches and gives the videos with the closest results to the information you need to find
Alternative flow	1. In step 5, can press enter to search 2. If no matching video is found, the system will not display it
Non-functional constraint	Website is accessible 24/7 to receive uploader's request

2.3.   Sign up

Use case ID	U03
Name	Sign up
Summary	This function allows users who do not have an account on the web to create an account, for more web manipulation. The user must provide an account name and valid password to register the account. Account name and password will be changed after.
Actor	Viewer
Pre-condition	Site access successful Have an internet connection
Post-condition	Help users create accounts, take advantage of most functions of the web
Flow	1. Visit the website 2. The system displays the website homepage 3. Click on subscriptions 4. The system displays the account registration page 5. Enter your account name, basic personal information, and password 6. User clicks on register 7. Information checking system 8. If the registration information is valid, the system displays the website homepage in the logged-in interface
Alternative flow	1. In step 6, if the user presses enter, the system also checks the information 2. In step 7, if the account name is already registered by someone else, report an error and ask the user to enter another account name
Non-functional constraint	Website is accessible 24/7 to receive uploader's request

2.4. Log in

Use case ID	U04
Name	Log in
Summary	Used for users who already have an account on the web, to store their information, or to save their favorite videos.
Actor	Viewer, uploader, admin
Pre-condition	The user has successfully performed the previous account registration.
Post-condition	After logging in, users can perform actions such as liking videos, saving video lists, commenting on videos, etc.
Flow	1. Access to the web 2. User clicks on login 3. The system displays the login page 4. User enters account name, password 5. User clicks to log in to the system 6. System check login information 7. If the information is valid, the system will report successful login and go to the main screen of the web
Alternative flow	1. In step 5, if the user presses enter, the system also checks the login information and gives the results. 2. In step 6, if the login information is not valid, report an error and ask the user to re-enter the information. 3. In step 6, if the login information is not valid more than 5 times, a request to reset the password will be displayed via email or phone number.
Non-functional constraint	Make sure the system timeout is no more than 10s Security of user account information Website is accessible 24/7 to receive uploader's request

2.5.   Edit profile

Use case ID	U05
Name	Edit profile
Summary	For users who already have an account to edit information to their liking, or update new information. The establishment using the information must include name, address, phone number, or email. All information can be edited at any time.
Actor	Viewer logged in, uploader, admin
Pre-condition	Site access successful Have an internet connection
Post-condition	Information is completely edited, suitable for users to create interest of users on the web
Flow	1. Visit the website 2. The system displays the login screen 3. User enters account information, password 4. System check login information 5. The system displays the website homepage 6. User clicks on the User icon, selects edit profile 7. Users edit the information they want to change and click save. 8. The system reports successful information updates.
Alternative flow	1. In step 7, if there is an error during saving, the information will not be updated
Non-functional constraint	Confidentiality of user's personal information Website is accessible 24/7 to receive uploader's request

2.6.   Like video

Use case ID	U06
Name	Like video
Summary	The user can like videos and review their favorite video category later. Likes help gauge a video's credibility (videos with more likes are recommended more)
Actor	Viewer logged in, uploader, admin
Pre-condition	Site access successful Have an internet connection Have an account on the web
Post-condition	Liked videos are saved to the list of liked videos
Flow	1. Visit the website 2. The system displays the website homepage 3. User clicks on login 4. The system displays the login screen 5. User enters account information, password 6. System check login information 7. The system displays the website homepage 8. User clicks on the video he wants to watch 9. In the video viewing interface, users click on the Favorite icon 10. Liked videos are saved to a category
Alternative flow	1. In step 10, if there is a problem in the process of liking the video, the video will not be in the list of liked videos
Non-functional constraint	Website is accessible 24/7 to receive uploader's request

2.7.   Save liked videos into individual list

Use case ID	U07
Name	Individual list
Summary	Create multiple playlists of videos with different genres or levels of interest, and easily find them later
Actor	Viewer logged in, uploader, admin
Pre-condition	Successful web access Have an account on the web Have an internet connection
Post-condition	Videos can be saved in many different categories, depending on the user's arrangement
Flow	1. Access to the web 2. The system displays the login screen 3. User enters account information, password 4. System check login information 5. The system displays the website homepage 6. User selects the video he wants to watch 7. Select the icon Save video to watch later 8. The system will give the user the option to save to the system's default directory or create a new directory 9. Users click to save to the desired category 10. After the video is successfully saved, the system will notify the user again
Alternative flow	1. In step 10, if there is a problem that the video cannot be saved, the system will report the error back to the user
Non-functional constraint	Website is accessible 24/7 to receive uploader's request

2.8.   Download video

Use case ID	U08
Name	Download video
Summary	To support users to watch their favorite videos anytime, anywhere even without an internet connection, this function allows downloading videos on the web.
Actor	Viewer logged in, uploader, admin
Pre-condition	Successful web access Have an internet connection Device capacity is enough to store videos
Post-condition	The video is downloaded successfully, users can access the video on the device even without an internet connection.
Flow	1. Access to the web 2. The system displays the login screen 3. User enters account information, password 4. System check login information 5. The system displays the website homepage 6. User selects the video he wants to watch 7. User clicks on Download video 8. The system displays the video size and parameter options 9. Users click on download video
Alternative flow	1. In step 9, when the video download is in progress, but the connection is lost, the video will be corrupted or stop downloading
Non-functional constraint	Website is accessible 24/7 to receive uploader's request

2.9.   View history

Use case ID	U09
Name	View history
Summary	Watched videos will be saved in a category, users can search for previously unfinished videos quickly.
Actor	Viewer, uploader, admin
Pre-condition	Have an account on the site Watched at least 1 video or more Have internet connection
Post-condition	Stored data (when watching at least 1 video) helps users manage their accounts and quickly access the videos they've watched.
Flow	1. Access to the web 2. The system displays the login screen 3. User enters account information, password 4. System check login information 5. The system displays the website homepage 6. User enters viewing history 7. Users review and manage their accounts
Alternative flow	While watching a video, if the user loses the network connection, the user's currently watched video will not be saved in the viewing history.
Non-functional constraint	Website is accessible 24/7 to receive uploader's request

2.10.   Video comment

Use case ID	U10
Name	Video comment
Summary	You are used to reviewing each video and discussing the content together.
Actor	Viewer, uploader, admin
Pre-condition	Have an account on the website and have been watching videos
Post-condition	Users can jointly rate and discuss the video they have been watching since then, so that users who have not seen it can have a better choice.
Flow	1. Access to the web 2. The system displays the login screen 3. User enters account information, password 4. System check login information 5. The system displays the website homepage 6. Users go to watch videos 7. Users comment below the video they are watching
Alternative flow	User lost connection during the comment and this comment won't be saved.
Non-functional constraint	Website is accessible 24/7 to receive uploader's request

2.11.   Post video

Use case ID	U11
Name	Post video

Summary	Allow users to upload videos.
	Video sources will be divided into 2 types:
	    Show poster's name is the site.
	    Show poster name is the video provided account name.

Actor	Uploader
Pre-condition	Have an account on the website (Special account can upload videos)
Post-condition	Uploader after uploading the video, the user can watch the video
Flow	1. Access to the web 2. The system displays the login screen 3. User enters account information, password 4. System check login information 5. The system displays the website homepage 6. Uploader upload video 7. Video posted successfully (user can watch video)
Alternative flow	If the uploader loses the network connection, the video will not be uploaded successfully and they need to restart the upload process.
Non-functional constraint	Website is accessible 24/7 to receive uploader's request

Use case ID	U12
Name	Video upload history
Summary	All information videos (name, posting date, genre,...) will be saved in the historical subscription video category so that users can review the details of their video posting work.
Actor	Uploader
Pre-condition	Have an account on the website (special account can upload videos)
Post-condition	Help uploader manage their video uploading work like posting date and time
Flow	1. Access to the web 2. The system displays the login screen 3. User enters account information, password 4. System check login information 5. The system displays the website homepage 6. Uploader upload video 7. Go to Video upload history 8. Check and manage uploaded and uploaded videos by uploader
Alternative flow	If you are downloading a video and the uploader loses network connection, the video data will not be saved to the video upload history
Non-functional constraint	Website is accessible 24/7 to receive uploader's request

2.13. Edit, delete video

Use case ID	U013
Name	Edit, delete video
Summary	Edit the video describing the information after posting or delete the video if necessary
Actor	Uploader
Pre-condition	Have an account on the website (Special account can upload videos)
Post-condition	Helper uploader delete or edit the video
Flow	1. Access to the web 2. The system displays the login screen 3. User enters account information, password 4. System check login information 5. The system displays the website homepage 6. Enter the video you want to delete or delete the description of the video 7. Delete it
Alternative flow	If the delete action is not saved, the uploader will not delete it successfully
Non-functional constraint	Website is accessible 24/7 to receive uploader's request

2.14.   Hide, show video

Use case ID	U14
Name	Hide, show video
Summary	Users who post videos can choose to show or hide the video anytime they want.
Actor	Uploader
Pre-condition	have an account on the website (Special account can upload videos)
Post-condition	Help uploader hide or show videos depending on the purpose of use
Flow	1. Access to the web 2. The system displays the login screen 3. User enters account information, password 4. System check login information 5. The system displays the website homepage 6. Enter the video that the uploader wants to show or hide 7. Hide or show it
Alternative flow	If the hide or show action is not saved, the video's status won't change
Non-functional constraint	Website is accessible 24/7 to receive uploader's request

2.15. Report video link error

Use case ID	U15
Name	Report link
Summary	Each video has a report for feedback about unplayable video links. This report will be sent to the user register and web admin, then they will check the video again.
Actor	Viewer, uploader, admin
Pre-condition	Have an account on the website
Post-condition	Users will report videos with broken links so the uploader can promptly update the video
Flow	1. Access to the web 2. The system displays the login screen 3. User enters account information, password 4. System check login information 5. The system displays the website homepage 6. Report broken video link
Alternative flow	If there is no network connection, user reports will not be sent
Non-functional constraint	Website is accessible 24/7 to receive uploader's request

2.16.   Manage interface

Use case ID	U16
Name	Interface management
Summary	Admin will choose easy-to-see interfaces with suitable colors for viewers to feel comfortable with the website.
Actor	Admin
Pre-condition	Account must be an administrator.
Post-condition	Admin will use the buttons available on the admin's website management interface to change the image and color of the website to suit each request.
Flow	1. Admin will come up with ideas to reconfigure the interface according to the season or trend 2. Admin will change the interface color or drag and drop some image buttons into the website
Alternative flow	Some functions of the website are broken and the admin reports these issues to the development team to fix.
Non-functional constraint	Website updated after admin changes within 24 hours.

2.17.   Video censorship

Use case ID	U17
Name	Video censorship
Summary	Videos from users who do not want their names displayed will be checked by the administrator before being uploaded to the web.
Actor	Uploader , Admin
Pre-condition	Account of uploader wasn't blocked
Post-condition	The uploader will send a request to post a video and the administrator will check the safety of this account, and if it is ok, the administrator will post this video. These videos have the source from the administrator.
Flow	1. Uploader requests to upload video. 2. Admin checks the request. 3. Admin uploads video to the website.
Alternative flow	1. Admin checks the request and finds the uploader has violated rules or video has invalid content. 2. Uploader is not allowed to use this function
Non-functional constraint	Website is accessible 24/7 to receive uploader's request

2.18. Moderate users who want to post videos

Use case ID	U18
Name	Moderate uploader
Summary	These users submit a request to be free to post the video. The administrator will check the safety of this account, and if it is ok, will allow this user to post videos. These videos have the source from the uploader.
Actor	Uploader, admin
Pre-condition	Account of uploader wasn't blocked
Post-condition	If video has suitable content, it will be uploaded to the web and has the source as the uploader.
Flow	1. Uploader requests to upload video. 2. Admin checks the request and gives acceptance for the uploader. 3. Uploader uploads video to the website.
Alternative flow	1. Admin checks the request and finds the uploader has violated rules or video has invalid content. 2. Uploader is not allowed to upload a video or an uploader account is banned.
Non-functional constraint	Website is accessible 24/7 to receive uploader's request

2.19.   Video suggestions

Use case ID	U19
Name	Video suggestion
Summary	Recommend popular videos, viewer's favorite videos and new videos.
Actor	Admin
Pre-condition	Popular video must have at least 100 views if it's a old video (uploaded for 1 hours or later) or must have at least 50 views if it's just has been uploaded
Post-condition	Popular videos will be on home page of the website
Flow	1. Admin browses the list of videos to find popular and new videos. 2. Admin recommends these videos to the web user.
Alternative flow	1. Admin can not find out new videos or any videos that have enough views to be recommended. 2. Older videos will be recommended.
Non-functional constraint	Admin has stable connection to the web

2.20.   Account management

Use case ID	U20
Name	Account management
Summary	Administrators check and manage the list of accounts; block illegal accounts and update the list of top uploaders.
Actor	Admin
Pre-condition	Server must contain a list of user and uploader accounts (at least 2 accounts require)
Post-condition	Account is banned if it violates rules; the top uploader list is updated….
Flow	1. Admin go to the website and check the list of accounts. 2. Admin will ban illegal accounts and update the top uploaders.
Alternative flow	1. Admin don't see any illegal accounts. 2. Admin updates the list of top uploaders if it has a change.
Non-functional constraint	Database has stable connection to the website

2.21. Search video (for video censorship)

Use case ID	U21
Name	Search video for admin
Summary	Admin go to the censorship section and search for videos that are in the queue that need to be censored
Actor	Admin
Pre-condition	Must be admin or uploader Have internet connection
Post-condition	Search videos quickly when there is any data, saving time
Flow	1. Visit the website 2. The system displays the login screen 3. Admin enter account name, password 4. System to check account information 5. The system displays the homepage of the website 6. Admin click on Censorship 7. The system takes the admin to the Censorship interface 8. Admin click on the small search bar (not on the main toolbar) and enter any information related to the video you want to find (username, subject, location, etc.) 9. The system checks, searches and gives out videos that require censorship
Alternative flow	1. In step 4, if the admin's information is wrong, the system will report an error and ask to re-enter the information 2. In step 6, if you do not have administrator rights, the user will not see the Censorship item, or when clicked, the system will report an error 3. In step 9, if there are no videos in the queue or there are no videos related to the search keyword, the system will report no matching videos.
Non-functional constraint	

2.22.   Individual list (for video censorship)

Use case ID	U22
Name	Individual list for admin
Summary	Admin creates a list of uncensored videos (like youtube playlist)
Actor	Admin
Pre-condition	Must be admin or uploader Have internet connection
Post-condition	Helps to categorize videos as desired, for easy moderation and topic classification.
Flow	1. Visit the website 2. The system displays the login screen 3. Admin enter account name, password 4. System to check account information 5. The system displays the homepage of the website 6. Admin click on Censorship 7. The system takes the admin to the Censorship interface 8. Admin organizes unapproved videos into lists (by genre, poster, location, etc.) 9. The system saves the results and notices the successful list creation.
Alternative flow	1. In step 4, if the admin's information is wrong, the system will report an error and ask to re-enter the information 2. In step 6, if you do not have administrator rights, the user will not see the Censorship item, or when clicked, the system will report an error 3. In step 9: If the system fails or malfunctions, it will notify you that the job has not been completed.
Non-functional constraint	