Software Requirements Specification for UNCGTube Version one
By: Joscelyn McHugh, Sheila Abbaszadeh, and Benji Gray

Project General Description:

This project aims to create a platform that serves as a beginner YouTube channel specifically for UNCG students. This channel aims to provide students with a safe and encouraging environment to upload their videos, helping them gain experience in content creation, video uploading, and audience engagement. It offers a way for students to build confidence and develop a small local following before transitioning to a more expansive and global audience. By gaining experience through this channel, students will be better prepared to establish and grow their own individual YouTube channels in the future.

UNCGTube involves the viewers (UNCG students who wish to watch their friends/ classmates videos), the influencers (UNCG students who wish to upload and share their videos), and the sysadmin(system admin who oversees overall system functionality and viewers comments and influencers comments/video content to make sure they are appropriate). The platform addresses the needs of these users by allowing students to view classmates/students/friends videos and interact with them, allows students to upload videos, receive feedback, and learn about content creation in a supportive community, and the sysadmin ensures appropriate moderation of both of these accounts.

Functional Requirements/Features

1. Viewers (Joscelyn Mchugh):
   a. Create/modify/delete account Viewer profile
   b. Like and comment on videos
   c. View subscriptions
   d. View liked videos
   e. View trending videos
2. Influencers (Sheila Abbaszadeh):
   a. Create/modify/delete account Influencer profile
   b. Influencer can search through subscribers
   c. Can view videos that they have posted
   d. Can edit video posts to some extent
   e. Can delete videos
   f. Can make their own comments on video/respond to viewers
   g. View who has liked certain videos
3. SysAdmin (Benji Gray):
   a. Manage Viewer/Influencer accounts
   b. Delete/ban accounts for multiple violations
   c. Respond to messages from viewers and influencers
   d. Ability to moderate all accounts
   e. Can delete inappropriate comments and videos

Non-Functional Requirements

1. Viewers:
    a. Videos should load no longer than 3 seconds after the video has been clicked on (assuming strong internet connection)
    b. Minimal buffering, no longer than 2 seconds
    c. The any page within the program should load within 2 seconds
2. Influencers:
    a. Should be able to have as many followers as the current student/staff population at UNCG
    b. Videos should load no longer than 5 seconds, after the video has been clicked
    c. Should be able to customize their profile within 2 seconds of making changes.
3. SysAdmin:
    a. Comment/video deletion should occur immediately
    b. Messages sent to/received from users should have no delays other than connection speed

Use Case for Viewers: Viewer wants to view videos/content and also comment on videos as well as look at subscribers and view other features of the homepage/profile of their account

Viewer opens the UNCGTube website and displays the homepage. From there, the viewer clicks on a video they find interesting. The viewer likes the video, so they give it a thumbs up and decides to comment on the video. The video is over and the viewer clicks the home button and from there decides they want to view who they are subscribed to and clicks the subscriptions button. This takes them to view all of the people/channels they're subscribed to. After that, the viewer can select a profile that they're subscribed to. After the influencer's profile has been selected, there will be suggested videos from that influencer and this would loop back to the video functions (b and c). From the viewer's homepage, the viewer decides they want to find a video they previously like (gave a thumbs up to). The viewer will click on the "Liked Videos" link and it will show them a list of all of the videos they have liked. Lastly, the viewer is back at the homepage and they decide to see what videos are trending. There is also a link for trending videos which will show the viewer the most liked and played.

Things that could go wrong:

a. Video playback issues, like buffering or failure to load.
b. Unable to like or comment on videos due to connectivity or site errors.
c. Subscription list fails to load or update.
d. Failure to subscribe.
e. "Liked Videos" or "Trending" section not displaying correctly. Or not showing trending videos

Use Case Scenario for Influencers: Wants to upload a video and respond to comments

As an Influencer I want to upload a new video and respond to comments on existing videos. They already have a profile with multiple uploaded videos and a decent following. Influencer clicks Upload new video on profile page. Fill out video title and description and such and uploads a video file that was previously recorded and saved (onto device, flash drive, or etc.). Click add video/upload. And If they want they can review the video/title/description and then finally upload to profile. To view comments on other videos the influencer goes to either profile page or homepage and clicks on videos/past videos respectively. Then clicks on a video that they wanted to look at comments for. Scrolls and sees what people have commented and is able to comment back to viewers/subscribers.

Things that could go wrong in this scenario:
   a. Video could fail to upload before reviewing
   b. Video could fail to upload onto profile
   c. Comments could fail to appear under videos(loading issue)
   d. Video could be flagged for inappropriate content
   e. Certain comments could be flagged

Use Case for SysAdmin: wants to see what has been flagged as inappropriate content and deal with it accordingly

      Open UNCGTube and login as SysAdmin. Homepage for SysAdmin displays flags from Influencers for moderation. Evaluates flagged comments/videos for possible deletion. Browses videos independently to flag/delete inappropriate content. Possibly bans viewers/influencers for multiple inappropriate content violations

Things that could go wrong:

    a. Incorrect or missed identification of inappropriate content.
    b. System glitches preventing the removal of flagged content.
    c. Accidental deletion or wrongful banning of users.