

# **Software Quality Assurance**

*COMP 3033*

## **REPORT**

### **GROUP-7**

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# Test Cases

## Test Case 1(100% correct)

- ID: TC001
- **Description:** Verify that the main user interface displays 12 YouTube videos with thumbnails and titles.
- **Pre-Condition:** User has accessed the main page of the application.
- **Procedure:**
  1. Open the web application.
  2. Observe the main user interface.
- **Test Data:** N/A
- **Expected Result:** 12 YouTube videos are displayed, each with a thumbnail image and a title.

## Test Case 2(100% correct)

- ID: TC002
- **Description:** Ensure that clicking on the video thumbnail or title brings the user to the dedicated player area, within the same tab, with a sidebar for other videos.
- **Pre-Condition:** User is on the main page with videos displayed.
- **Procedure:**
  1. Click on the thumbnail of any displayed video.
  2. Observe the navigation and layout change.
- **Test Data:** N/A
- **Expected Result:** The application navigates to a dedicated player area within the same tab, and a sidebar with other videos are visible.

## Test Case 3 (100% correct, need to modify as it is not selecting video rather than hard coded)

- ID: TC003

- **Description:** Check if the YouTube video iframe is present and loaded.

- **Pre-Condition:** The user has navigated to the watch.html page where a video should be loaded and ready to play.

- **Procedure:**

1. Navigate to the watch.html page with a specific video query parameter.
2. Check for the presence of the YouTube iframe on the page.
3. Optionally, if using the YouTube Player API, verify that the video state is ready.

- **Test Data:** None

- **Expected Result:** The YouTube iframe should be present, indicating that the video player has loaded. If using the YouTube Player API, the video state should be 'unstarted' or 'paused' (since autoplay should not be assumed).

## Test Case 4 (can type keyword but cannot add keyword and see changes yet)

- ID: TC004

- **Description:** User can type keywords into the search bar on both the main page and the dedicated video player page.

- **Pre-Condition:** User is on either the main page or the video player page.

- **Procedure:**

Procedure:

1. Locate the search bar on the main page.
2. Try the default button named SQA, Python and Learning into the search bar.
3. Verify that the input was successful.
4. Navigate to the video player page.
5. Locate the search bar on the video player page.
6. Type the keyword "Testing" into the search bar.
7. Verify that the input was successful.

- **Test Data:** Example keyword (e.g., "Testing")

- **Expected Result:** Keyword is accepted in the search bar on both pages.

## Test Case 5

- ID: TC005
- **Description:** Check if users can successfully take and save notes for each video.
- **Pre-Condition:** Video is playing in the player.
- **Procedure:**
  - Start playing a video.
  - Enter text into the note-taking section.
  - Save the note.
- **Test Data:** Note content (e.g., "Interesting point at 02:15")
- **Expected Result:** The note is saved and associated with the video.

## Test Case 6

- ID: TC006
- **Description:** Confirm the functionality to share a video and its notes as plain text.
- **Pre-Condition:** Notes are available for a video.
- **Procedure:**
  - Select a video with notes.
  - Use the share functionality to generate a shareable text format of the video and notes.
- **Test Data:** N/A
- **Expected Result:** The application provides a plain text format of the video URL and associated notes, ready to be copied and shared.

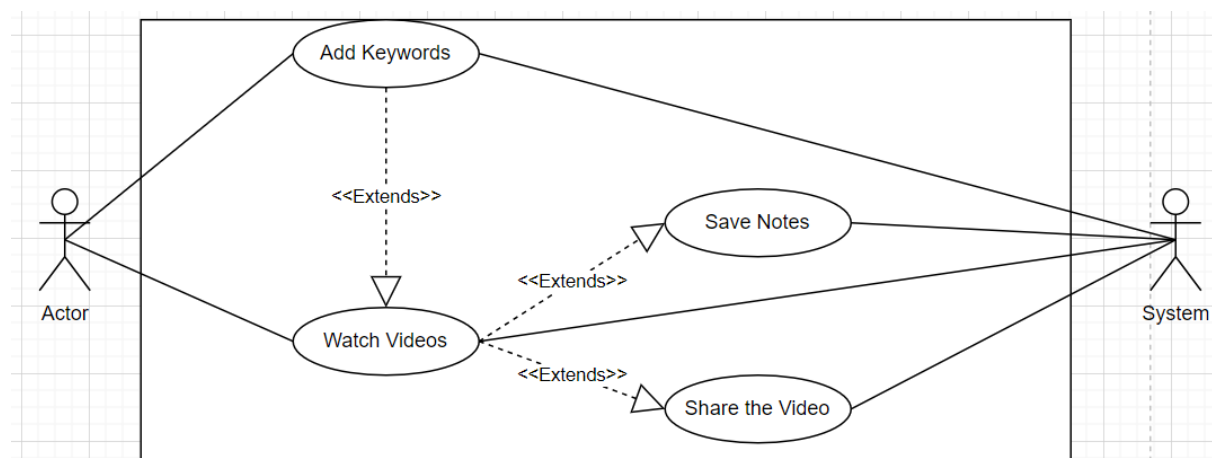
## User Stories

1. As a user exploring the web application, I want to ensure that the main user interface presents a visually appealing display of 12 YouTube videos, each accompanied by distinctive thumbnails and titles.
2. As a user engaging with the web application, I want the experience of seamlessly transitioning to a dedicated player area, within the same tab, when clicking on a video thumbnail or title, So that I can immerse myself in the selected video content and easily explore related videos through a sidebar.
3. As a user engaged in video consumption within the dedicated player video page of the application, I want to ensure that the video player is working so they are able to watch

the videos they selected without issues.

4. As a user exploring the main page of the application, I want the ability to input keywords into the search bar, So that I can efficiently search for specific content that aligns with my interests.
5. As a user engaged in video content within the application, I want the convenience of typing keywords into the search bar on the dedicated video player page, So that I can swiftly find related content without navigating away from the video player.
6. As a user searching for specific content within the application, I want the video list on the current page to dynamically update when I enter a keyword in the search bar, So that I can quickly identify and access relevant videos based on my search criteria.
7. As a user actively engaged with video content, I want the capability to take and save notes for each video I watch, So that I can capture and revisit specific points or thoughts related to the content.
8. As a user who relies on notes for content engagement, I want to ensure that notes taken for specific videos are correctly associated and consistently displayed when loading the video or its corresponding page, So that I can easily access and reference my annotations.
9. As a user who wants to collaborate and share insights, I want the ability to share a video along with its associated notes in a plain text format, So that I can easily convey specific information or interesting points to others and remember the points I made while watching the video.

## Use Case Diagram



## Remarks

1. Some videos are unplayable in both our system and other group's systems. The speculation is that the content creator of the said video might have blocked his/her video from being played on other platforms, which resulted in the said error to occur. One of the video in mentioned is "Eric周興哲《一樣美麗 Forever Beautiful》Official Music Video" on <https://www.youtube.com/watch?v=-GD5oWucV3Y>.
2. If by any chance the videos are not loading, it might be due to the api key problem. Hence, the api key in the script.js file needs to be changed. For generating api keys please go to <https://console.cloud.google.com/> create a new project go to API & Services and go to Credentials and Create Credentials to generate an API key. Furthermore, we also need to go to the Library and YouTube Data API and YouTube Embedded Player API.