**YouTubeBot Automation Script Documentation**

**Overview**

This script automates various YouTube interactions using **Selenium WebDriver**.  
It can:

* Load YouTube cookies for authentication
* Search for videos
* Watch videos for a specific duration
* Like videos
* Subscribe to channels
* Post single or multiple comments

It is useful for automating repetitive YouTube engagement tasks.

**Requirements**

* Python 3.8+
* Google Chrome
* ChromeDriver (matching your Chrome version)
* Required Python packages:
* pip install selenium

**Class: YouTubeBot**

The main class that handles YouTube automation.

**Initialization**

bot = YouTubeBot(cookies\_file="youtube\_cookies.json")

**Parameters:**

* cookies\_file *(optional)* – Path to a JSON file containing cookies to log in to YouTube.

**1. search\_and\_open\_video(keyword, video\_url)**

Searches for a keyword on YouTube and directly opens a specific video.

**Parameters:**

* keyword *(str)* – Search query to find related videos.
* video\_url *(str)* – Direct URL of the video to open.

**Returns:** True if successful, otherwise False.

**2. load\_cookies(cookies\_file)**

Loads YouTube cookies from a JSON file for authentication.

**Parameters:**

* cookies\_file *(str)* – Path to the cookies file.

**Usage:**  
Automatically called during initialization if a cookies file is provided.

**3. open\_video(video\_url)**

Opens a YouTube video.

**Parameters:**

* video\_url *(str)* – YouTube video URL.

**Returns:** True if the video player loads, otherwise False.

**4. watch\_video(duration\_seconds)**

Watches the video for a specified duration.

**Parameters:**

* duration\_seconds *(int)* – Number of seconds to watch.

**Returns:** True if completed, otherwise False.

**5. like\_video()**

Likes the current video if not already liked.

**Returns:**

* True – If the video was liked or already liked.
* False – If the like action failed.

**6. comment\_video(comment\_text)**

Posts a comment on the current video.

**Parameters:**

* comment\_text *(str)* – The comment to post.

**Returns:** True if posted successfully, otherwise False.

**7. subscribe\_channel()**

Subscribes to the channel if not already subscribed.

**Returns:**

* True – If successfully subscribed or already subscribed.
* False – If subscription failed.

**8. run\_automation(video\_url, watch\_duration, comment\_text=None)**

Runs a full automation sequence:

1. Opens a video.
2. Watches it for a set duration.
3. Likes it.
4. Subscribes to the channel.
5. Posts one or multiple comments.

**Parameters:**

* video\_url *(str)* – URL of the YouTube video.
* watch\_duration *(int)* – Duration to watch in seconds.
* comment\_text *(str or list)* – A single comment or list of comments.

**Returns:** True if all actions run, otherwise False.

**9. close()**

Closes the browser and quits the driver.

**Example Usage**

if \_\_name\_\_ == "\_\_main\_\_":

bot = YouTubeBot(cookies\_file="youtube\_cookies.json")

try:

video\_url = "https://youtu.be/b-OQQAUfw5Y"

comments = ["곧 갑니다.", "여긴 찐맛집이에요ㅎㅎ", "❤️"]

bot.search\_and\_open\_video("통영맛집", video\_url)

bot.run\_automation(video\_url, watch\_duration=10, comment\_text=comments)

finally:

bot.close()

**Workflow**

1. **Load cookies** → Log in to YouTube automatically.
2. **Search and open video** → Finds a video using a keyword.
3. **Watch video** → Plays for a given duration.
4. **Like video** → Likes the video if not already liked.
5. **Subscribe** → Subscribes to the channel.
6. **Comment** → Posts one or more comments.