

Part 1 Git Repository

Github: <https://github.com/LucassLin/CS4156TeamProject>

Part 2 User Stories and Acceptance Tests

Here are all the functionalities we have achieved so far:

1. The user is able to login via /login endpoint, which prompts them to log in via Google.
2. The user is able to visit his own homepage with influencer recommendations via the /home/user_name/user_email endpoint.
3. The user is able to visit the profile page of a particular influencer through a link on their home page, via the /home/user_name/user_email/channel_id endpoint.
4. The userInfluencer profile page will show the user some basic information about an influencer. Three YouTube videos posted by that channel are also shown on this page.

Here are the unit tests we've conducted:

1. We have written test cases for every end point and make sure that the correct information is shown and that user feedback is sent back to us correctly.
2. We have also written test cases for every task class, including the class to get channel information, and the class to retrieve videos using YouTube API.

Here's how we carried out the acceptance testing:

1. The test subject enters the application by going to <http://localhost:8080/login>. When clicking on the google signin button, he is redirected to a google sign in page which prompts him to sign in with a google account.
2. After signing in, he is redirected to his home page. There he should be able to see an initial list of recommended popular Youtube channels. Each channel card shows him the channel profile image, channel name, number of subscribers, as well as their popular tags. Two buttons are available on each influencer profile card.
3. If the test subject clicks on "follow", this piece of information will be sent back to us and the button becomes "following".
4. If the test subject clicks on "MORE INFO", he'll be redirected to that influencer's profile page.
5. At the influencer's profile page, he should be able to see the channel's profile image, channel name, number of posts, number of subscribers, number of followings, and their country code. He should also be seeing a list of popular YouTube videos under that channel and should be able to click on it and play it.

Bugs to be fixed:

1. The route with user name and email info included may be insecure. We will add hashing to this info later.

Next steps:

1. Set up a database as soon as we can and retrieve user info from the database, as well refresh the database on a daily basis.

2. Add a user profile page so that the users are able to see all the channels they subscribe to.
3. Add more features to each endpoint, including but not limited to more detailed categorization on the user home page, more comments and rating info on the influencer profile page, etc.

Part 3 Build Tool/ Testing Tool

Build: Maven

Test: Junit

Test case: <https://github.com/LucassLin/CS4156TeamProject/tree/main/src/test/java>

Configure build tool: <https://github.com/LucassLin/CS4156TeamProject/blob/main/pom.xml>

Part 4 Style Checker / Bug Finder

Style check: code style check tool T3.4:

<https://plugins.jetbrains.com/plugin/10798-code-style-check-tool>

We use the built-in style formatter of IntelliJ which automatically formats all the codes.

Bug finder: spotbugs

<https://plugins.jetbrains.com/plugin/14014-spotbugs>

We've uploaded the report before justification. No new report was generated after all the bugs were fixed.