**CNIT 58100-048 Milestone 3**

**Summary**

YouTube provides users the possibility to choose different categories while consuming video content. Milestone 3 consists of a UI upgrade to the application. The backend is set up using Django and models like the Core model (for my Ajax which can be used to delete a comment and add a comment using **Ajax**) and **Axios** categories that have the categories page, have been created for YouTube users and videos.

The front end renders the list of videos and managers users from the SQLite database.

Users will be able to toggle between “categories” and “basic YouTube”.

They will also be able to create a profile.

All the fields in the table and views are minimalized to accommodate the requirements of this milestone.

Communication to the user (success or error) is communicated to the user using Alerts.

The get and post also the view function.

User authentications are done in Django.

Created a proper admin page using Admin Page, and Superuser using Jazzmin.

**1. Setup Project**

* Create new project types.
* Create a new app (core)
* Install Apps in Settings.py
* Configure Templates
* Configure Static and Media Files in settings and Urls.py.
* Create a new view, URLs, and template then run the server.

Run the following commands to install the required modules:

* pip install django-jazzmin
* pip install django-import-export
* pip install django-taggit
* pip install requests
* python -m pip install Pillow

**2. Configure Admin Page, Superuser and Jazzmin**

* Install Jazzmin (pip install django-jazzmin)
* Add jazzmen in INSTALLED\_APPS
* Add Jazzmin Config Code in Settings.py
* Create Superuser
* Login To Admin Section
* The admin Username is [prasaddarveshi006@gmail.com](mailto:prasaddarveshi006@gmail.com).
* The password is 123.

Link: http://127.0.0.1:8000/admin/

**3. Custom userauths User Model (backend)**

**class User**

Create custom “Class User(models.Model):” in models.py

Add AUTH\_USER\_MODEL = 'userauths.User' in settings.py

4. **Created a channel Model channel.py**

* Create channel models with all fields.
* Create View to Display All Videos from DB
* Created a function in admin that I can make the videos private and that will not display in the Index.

5. **Created a core Model core.py**

* **Class Video. is a child of User**
* user = models.ForeignKey(User, on\_delete=models.SET\_NULL, null=True)
* **Class Comment is a child of User and Video**
* user = models.ForeignKey(User, on\_delete=models.SET\_NULL, null=True)
* video = models.ForeignKey(Video, on\_delete=models.CASCADE, related\_name="comments")

**Register Feature (from both back end and front end)**

* Created a new function to register using.
* Created Forms.py (user creation form)
* Configured Template and URL

**Login feature (authenticating feature, from both back end and front end)** [**http://127.0.0.1:8000/user/sign-in/**](http://127.0.0.1:8000/user/sign-in/)

* The user cannot comment if he/she is not logged in)
* Create a new function to log in using.

**Logout feature (authenticating feature, from both back end and front end)**

* Create a new function to log out using the Django logout package.
* Create query in views.py.
* Configure URLs to view.

**Using Axios to add likes and load likes in real time using CDN lib.** [**http://127.0.0.1:8000/watch/4/**](http://127.0.0.1:8000/watch/4/)

* Create a function to like videos and create another function to load all video likes, and add views to the urls.py file Create a button in HTML with the id to connect to Axios.
* Using Axios to add likes and load likes in real-time.

**Comment Feature (Ajax)** [**http://127.0.0.1:8000/watch/4/**](http://127.0.0.1:8000/watch/4/)

**For Ajax, I used CDN lib.**

Get and post method.

* I have used the Created Adding comment feature using Ajax.
* I can change add and delete comments without refreshing the page.
* You cannot comment if you are not logged in.

**You can even add video from the Backend.**

* First, register as a user at <http://127.0.0.1:8000/admin/>
* Create a user of your choice and give a suitable password.
* Then at the add channel create a video channel of your choice and give suitable information.
* Also, you can add videos from the back end to your channel by clicking on add videos on the admin page.

Additional Features that I have done.

The video count increases every time you go on the video and watch it.

Information on

**External API**

**I have installed an external API.**

**External API is on** [**http://127.0.0.1:8000/**](http://127.0.0.1:8000/)

Where you can get access to the latest news and can click on the link to the external site

This external API will be updated every 24 hours and give us the latest news every day.