**Capstone Project Orientation**

**Date**: 26th May 2024 : 2:00 p.m

**Host**: Shadiya

**Project Requirements and Related Documentation Link:**

<https://docs.google.com/document/d/1WrMDf4KnzprK37EJLr3QW0wRUB3few-1Yujv6wnYhZw/edit>

**Overview:**

1. Develop a **StreamLit** web application to take a channel ID and print the responses to the question selected in the web-app.
2. Prior to running the app, collect the channel information for 4-10 channels using youtube API and store it in DB that is created programmatically.
3. Use locally hosted DB or SQLLite cloud hosted DB for hosting the database.
4. Host the project code in GitHub.
5. Present the Project in a scheduled session.
6. Create a Youtube recording of the project
7. Schedule a Mock interview

**YouTube Data API:**

API Key need to be generated for our project

Use youtube data API to collect data on channels

* Channel Info
* Comments Info
* Video Info
* Playlist Info (Not used)

**Streamlit:**

* Python library to create a web application

**Web-Application Requirement:**

* Take a Channel ID
* Retrieve all the relevant data for the Channel
* Retrieve information for 4-10 channels and store it in MySQL
* Stored in a way Searches are possible on the data
* Based on the question selection, retrieve the data from the MySQL db and present it

GitHub:

Account Setup link: <https://docs.google.com/presentation/d/1XHCbgUOqbcXNUyQ87vTlKdKRgAbBxtkA/edit#slide=id.p1>

Submission:

Submit the project in the ZEN Portal

Submit: Source code link (GitHub repository Link)

– Meeting needs to be setup for evaluating the project

Project Evaluation Metrics:

<https://docs.google.com/document/d/1QisLD2kqDWFZJG2oDknKn2eMGi-Xq8oFPgA7UWSbcIQ/edit>

**YouTube API Key**

AIzaSyCbya9MlvCo-rpL2j\_4a\_yuS5Dz9raszfg

Steps:

Google Console -> Create New Project -> APIs Explore and Enable APIs -> Click API and Services Button Top -> Search for YouTube API (Select Youtube Data API v3) -> Click on the Tile YouTube Data API v3 -> Credentials -> On top Select API Key

Access Youtube Data API (from google search):