

High level design document

Google Drive API team

Balsher Singh (180010008)

Karan Sharma (180010019)

Mrinal Rana (180020024)

Parth Chaturvedi (180020027)

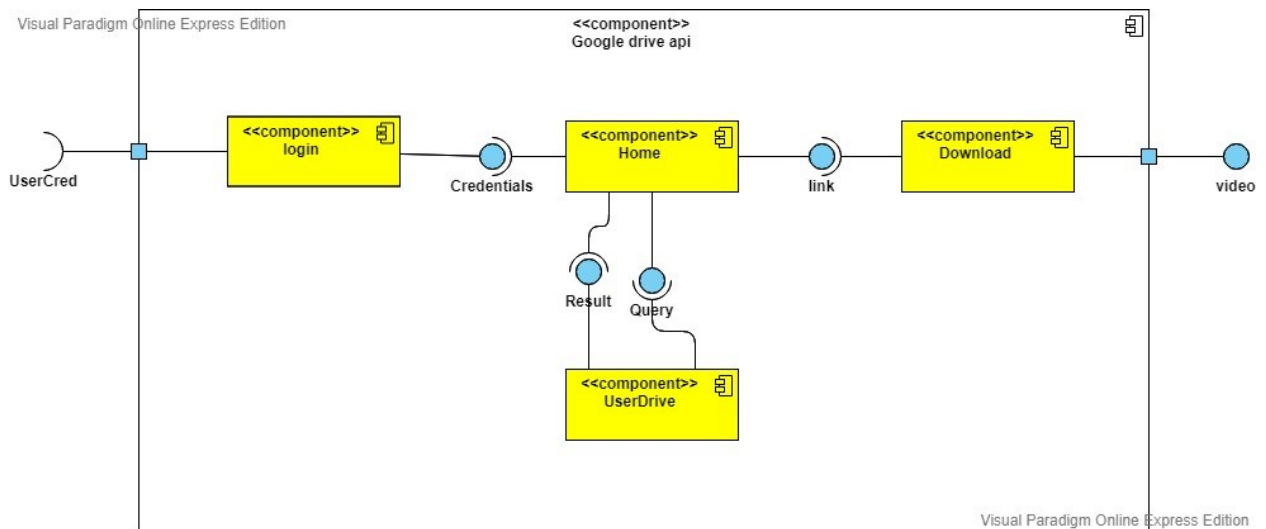
➤ Purpose:

- The main purpose of our part in the mini project is to search for files and download them from the google drive of user using Google drive API.

➤ Tools Used:

- Google Drive API provides results from Google Drive databases of the user according to search.
- Django in the backend runs this query in Google Drive API and collects the required results and adds them to the HTML page.
- HTML for frontend - takes user input and provides results on the same page

➤ Component Diagram:



- **Login component:**
The login component will let the user to login to his google drive account. User will have to manually provide the credentials.
- **Home component:**
User can search for a file using a search bar. Results will also be shown here. User can play files by clicking on them. User can also download the video.
- **UserDrive component:**
When user search for a video, searching and processing will done in this component. This component will send output to the home component. Output will be videos matching with user's search.
- **Download Component:**

When a user requests to download a file, this component will be used to download the file in the user's device. This component will use id of video to identify it from the set of results.

➤ Communication:

Communication between different components is shown in the component diagram.

- The login component will provide google drive account credentials of the user to the home component.
- The Home component will provide the query (what to search) to the UserDrive component.
- The UserDrive component will provide search results to home component.
- The Home component will provide the link or id of the video to be downloaded to Download component.

➤ User interface:

Only the home component screen will be visible to the user.

- A search bar will be provided to search for a given video by name.
 - Results will be shown in the form of a list.
 - User can play the video by clicking on it.
 - Download link will be provided for downloading the file.
-
-