Sri Lanka Institute of Information Technology

OAuth related assignment document.

Module Name: SSD.

SSD Assignment 2

Group Members Details

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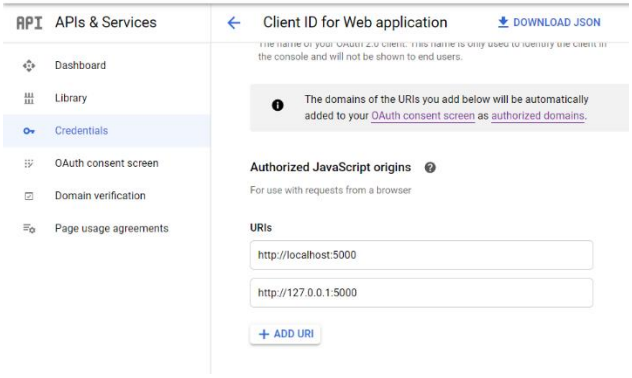
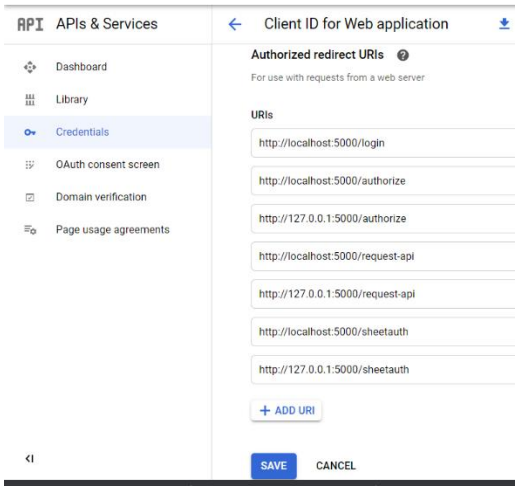
SSD Assignment 2 OAuth2

This application is about share google sheets with outside of organization and access sheets using a local application. You must create google oauth2 credentials and service account. The process as follow:

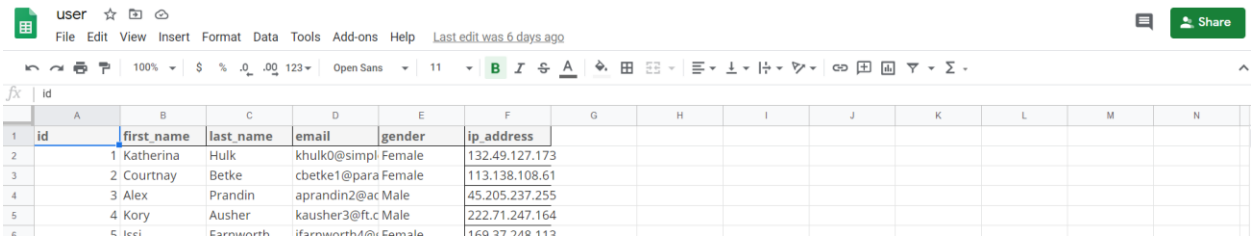


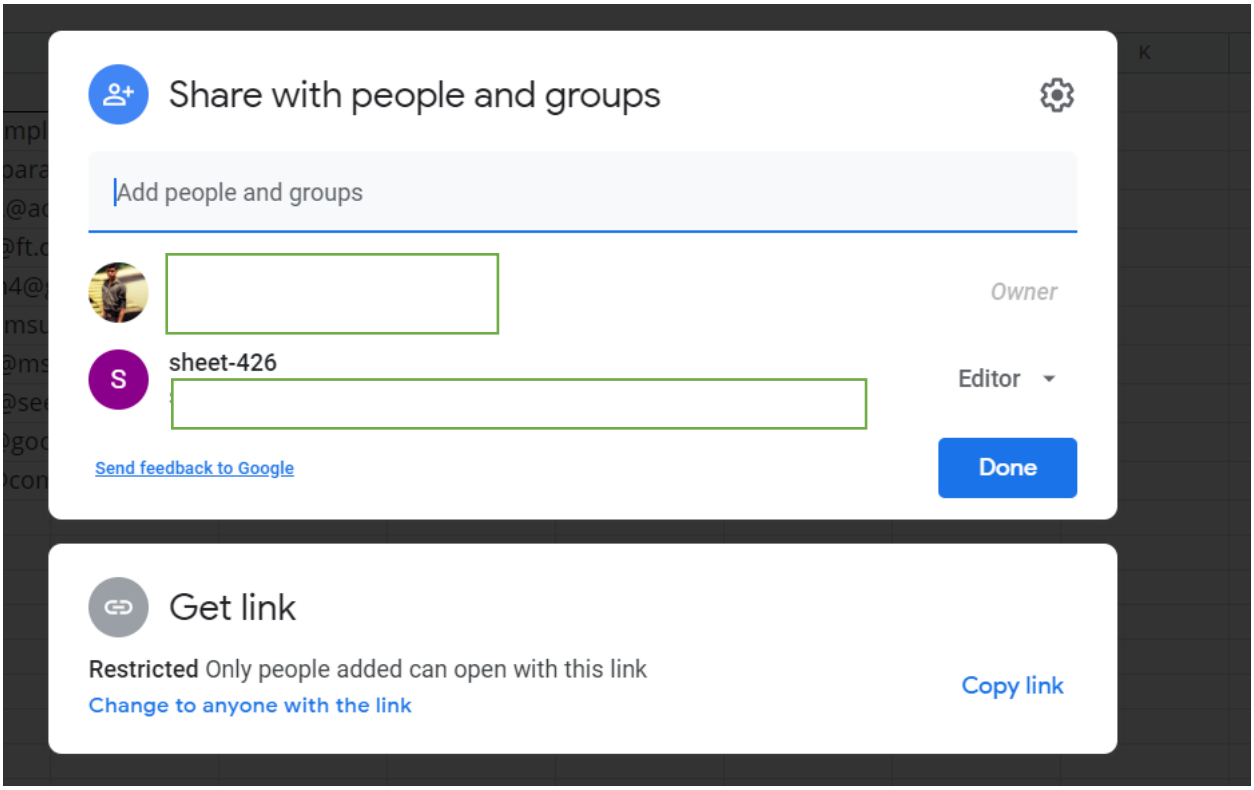


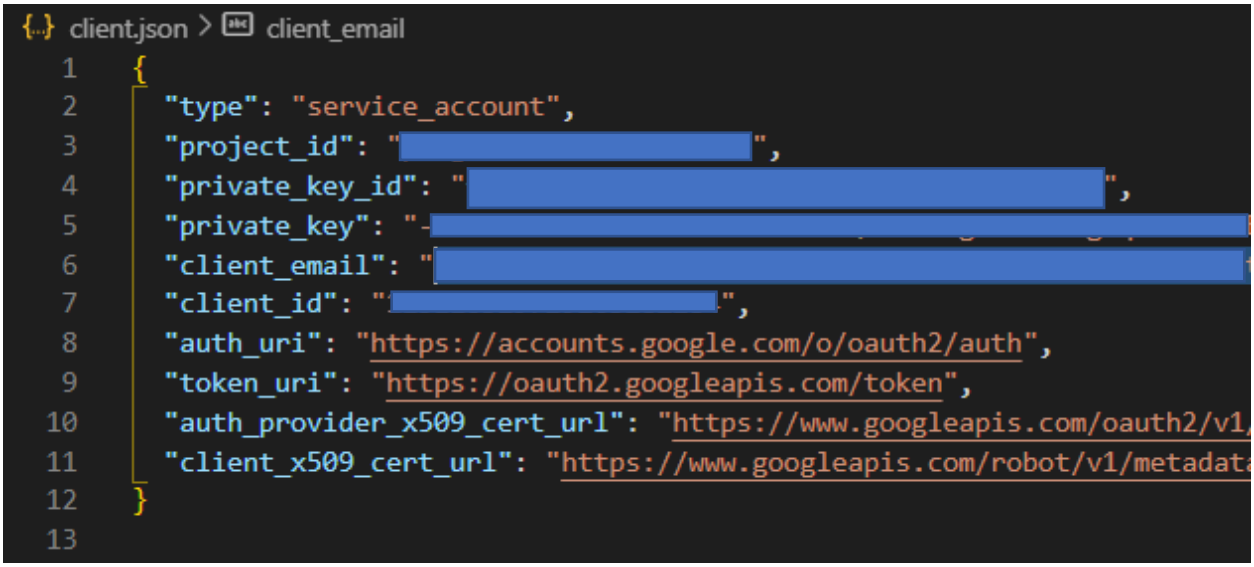
Then copy client id and secret id and add it creating .env file.

Create a google sheet, copy the sheet name, and add it to .env file as SHEET_NAME. Then .env file will be as follow:

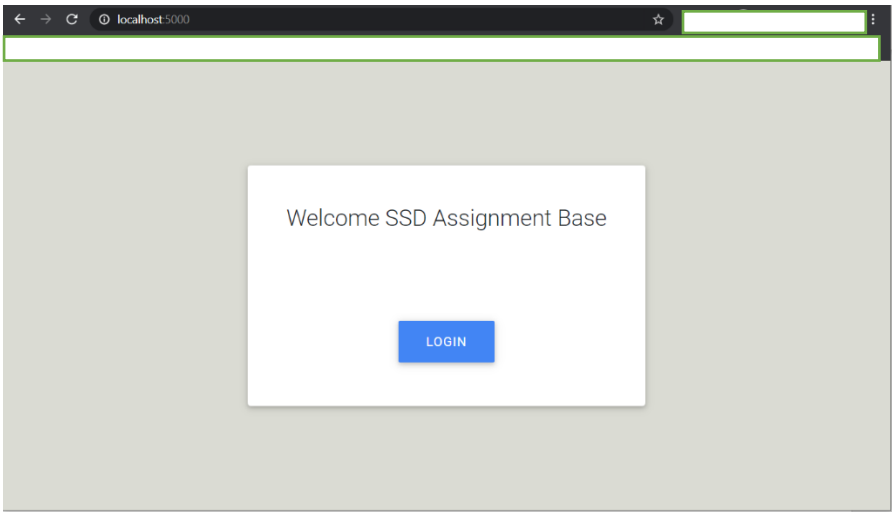
Add client email in client.json to share access of google sheet.



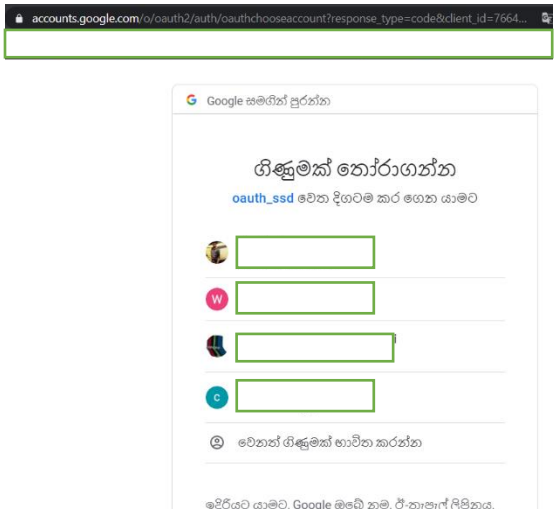

Share with people and groups
Add people and groups
Owner
sheet-426
Editor
Send feedback to Google
Done
Get link
Restricted Only people added can open with this link
Change to anyone with the link
Copy link


client.json > client_email
{
"type": "service_account",
"project_id": "
"private_key_id": "
"private_key": "
"client_email": "
"client_id": "
"auth_uri": "https://accounts.google.com/o/oauth2/auth",
"token_uri": "https://oauth2.googleapis.com/token",
"auth_provider_x509_cert_url": "https://www.googleapis.com/oauth2/v1
"client_x509_cert_url": "https://www.googleapis.com/robot/v1/metadata
}

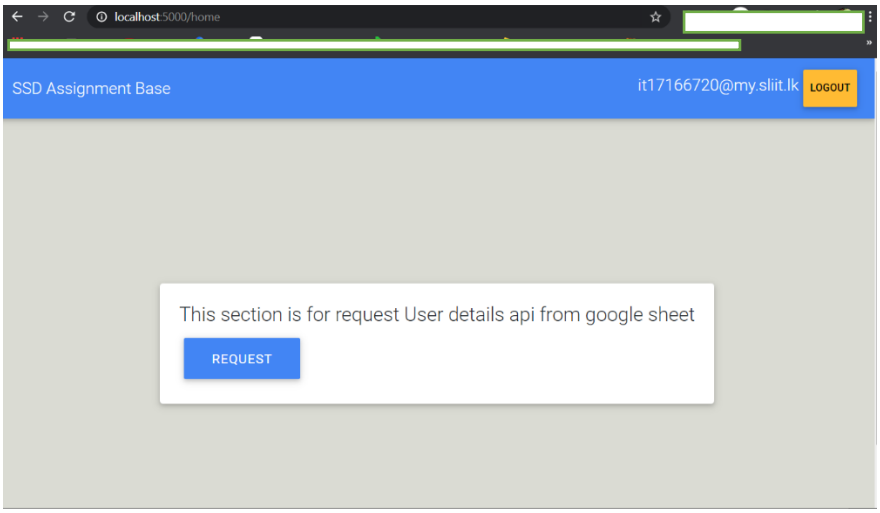
In the application you can simply run the development mode in locally using ‘flask run’ command and open the application in http://127.0.0.1:5000/ . Then you will display the welcome page as follow:



Then you have login to the system, and you will redirect to google authentication page as follow:

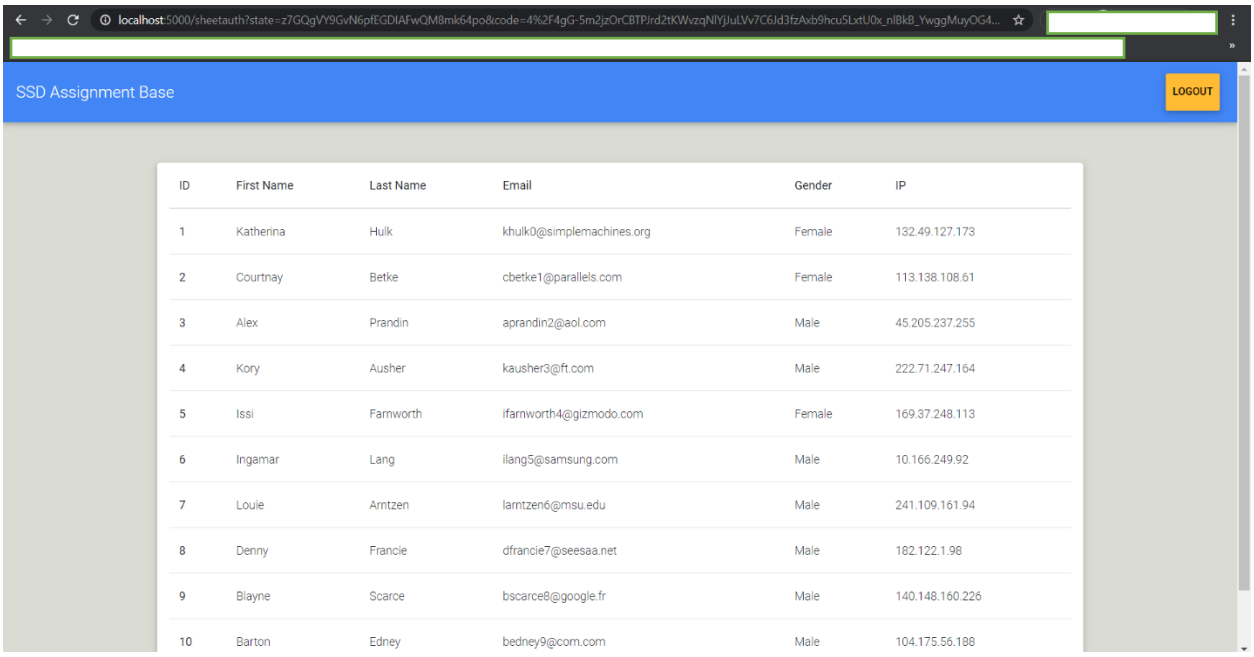


Then you will redirect to home page after authenticated successfully.



Then you need to request for google sheet. In this phase this application is only developed for access a one sheet. Further this application can be developed to access multiple sheets which can be edit or with limited access. For this step we used google service account and get an email which is used for giving share access via email.

Finally, you will be display sheet data in local application using data tables representation.



We have presented our workflow using chart as follow: