**APIs**

1. GET / : renders index.html for welcome page
2. GET /login : goes to google login, redirects to /login/callback, should not need to modify
3. GET /login/callback : gets authorization code google sent back, performs login at backend, redirects /newuser if user not found in database, else redirect to /view
4. GET /newuser : renders newuser.html, which contains forms for user to put information for creating user
5. POST /newuser : gets the forms from user and insert into user table, redirect to ?
6. GET /logout : logout

**Webpages**

1. Index (/) (A welcome homepage, with a button to /login for google login, A list of current streaming channel; After a member login, additional options (links) are shown to the user including: logout, start streaming, my profile)
2. Video player (/view/ID)
3. Streamer Dashboard (/stream) (after a member clicking on the “start streaming” button, he/she will be redirected to the streamer dashboard. Choose a related streaming type from the drop-down list and click on “build pipeline”, the backend program will start to build a personal streaming pipeline, while finish, the information the member needs to start streaming using OBS will be shown. Also, in this dashboard, the streamer is able to see his/her own live-streaming (the same as what other audiences can see) and other information)
4. Company Dashboard (/company)
5. Profile (/profile)

**Database**

1. User
   1. Id (from google)
   2. Name (from google)
   3. Email (from google)
   4. Profile pic (from google)
   5. UserType (streamer/viewer/company)
   6. ~~StreamCategory (if selected streamer)~~ this can be inputted while starting the streaming
2. WatchHistory
   1. Viewer (userid)
   2. Streamer (userid)
   3. Time (timestamp)
   4. StreamCategory
3. Streams
   1. Id
   2. Category
   3. Viewer

**Logic**

Every time a viewer views a stream, add a row to view table. To calculate the statistics, join the view table with the user table to get the user’s most viewed category.

12/2 added functions

1. New user no longer shows id
2. New user can select between company and personal as user type
3. Edit profile is now supported
4. Company view by category/by user statistics
5. Company can select one user or one category to see the historical view counts
6. Company can select multiple user/categories to upload image for advertising

TBD

1. Predicted future view count shown in single user/category graph?