Progress from 05 to 09 April 2021

* Last week was all the trending work on the dummy data on the csv and excel sheets data.
* This week have downloaded the tables from staging server;
  + Reviews
  + Users
  + Likes
  + Comments
  + Views
  + Categories
* Challenges from the above data
  + The data was very less, hardly around 30 reviews and around 5 likes, in those 30 reviews, there were only a few approved ones.
  + The tables are not structured for us, in the senses, the information was scattered in different tables in the MongoDB database
  + Since there was less data, I decided to add more data in the format as per the ones in the staging server database
  + One of the bigger challenges I faced was location based trending.
* Work done in this week.
  + Initially the data creation took time, first had to generate random review\_id for each of the reviews, here had created 100 reviews, in each of the reviews, the User\_id had to change a few times, hence there were 30 unique users who had around 100 reviews. In each of the reviews, creation and update time had to be random dates within a timeframe, ratings of the review also had to be random, along with longitude and latitude. All these fields creation was done and a new json file was created, attached is for your reference.
  + Next had generated the likes for each of the reviews in random, there were around 10000 likes for the 100 reviews in random, in the real scenario similar to likes, comments and views will also be there, but right now have only taken the likes for consideration, since other tables will also be similar.
  + Once the data was created, I pushed this into my local MongoDB, and extracted these tables, did a lot of data-processing and now the following results are available;
    - Top\_10 trending reviews based on number of likes in last week
    - Top\_10 trending reviews based on number of likes in last month
    - Top\_10 trending user\_id based on number of likes in last week
    - Top\_10 trending user\_id based on number of likes in last month
    - Based on a user current location (longitude, latitude), get the top\_10 trending reviews based on number of likes within 10 distance units
  + The above things based on category is pending, along with increasing the duration or distance if 10 are not available, I will try to complete it ASAP and then move ahead with the recommendation. Also trending based on search is to be done, however we can use the same script with minor changes, since we are using the script to get relevant info based on the users.
* The github link to the scripting and json files is available in the below link for your reference;
  + https://github.com/arjunjanamatti/recommend\_system/tree/main/fill\_collections