***Project setup and Pre-Requisites***

1. *Setup MongoDB locally*
2. *Install MongoDB UI → Robo3T or Studio3T*
3. *Setup MongoDB CLI*
4. *Dataset -* [*Mflix Dataset*](https://drive.google.com/file/d/1-6wBo4GpHH9D24Mjn8v4QbZFPZH6u0d0/view?usp=sharing)
5. *Dataset description -* [*Sample Mflix Dataset — MongoDB Atlas*](https://docs.atlas.mongodb.com/sample-data/sample-mflix/)
6. *Install Python*
7. *Install PyCharm*

***Tasks -***

1. *Create a Python application to connect to MongoDB.*
2. *Bulk load the JSON files in the individual MongoDB collections using Python. MongoDB collections -*
   1. *comments*
   2. *movies*
   3. *theaters*
   4. *users*
3. *Create Python methods and MongoDB queries to insert new comments, movies, theatres, and users into respective MongoDB collections.*
4. *Create Python methods and MongoDB queries to support the below operations -*
   1. ***comments*** *collection*
      1. *Find top 10 users who made the maximum number of comments*
      2. *Find top 10 movies with most comments*
      3. *Given a year find the total number of comments created each month in that year*
   2. ***movies*** *collection*
      1. *Find top `N` movies -* 
         1. *with the highest IMDB rating*
         2. *with the highest IMDB rating in a given year*
         3. *with highest IMDB rating with number of votes > 1000*
         4. *with title matching a given pattern sorted by highest tomatoes ratings*
      2. *Find top `N` directors -*
         1. *who created the maximum number of movies*
         2. *who created the maximum number of movies in a given year*
         3. *who created the maximum number of movies for a given genre*
      3. *Find top `N` actors -* 
         1. *who starred in the maximum number of movies*
         2. *who starred in the maximum number of movies in a given year*
         3. *who starred in the maximum number of movies for a given genre*
      4. *Find top `N` movies for each genre with the highest IMDB rating*
   3. ***theatre*** *collection*
      1. *Top 10 cities with the maximum number of theatres*
      2. *top 10 theatres nearby given coordinates*