**Q:Social media platform - Design a class to manage social media profiles, including creating posts, liking posts, and commenting on posts.**

**Approach to solve:**

1.Understand the problem statement clearly and find out the all the end points need to be created .

2.Figure out the proper datasturctures to manipulate the data in the api

3.Figure out the database design with proper list of tables and appropriate constraints to solve the problem.

**Pseudocode:**

**CREATE\_PROFILE (HTTP POST method):** creates a new profile in the database with the provided name and description.

Step-1: extracts the required data from the JSON payload

Step-2: If the data format is not correct a message saying invalid request format is displayed .

Step-3: Database connection is created using the set\_connection() method. If it is created successfully extracted data is inserted into profiles table and changes are saved. If any exception is raised transaction is rolled back and a message is displayed saying failed to create the profile.

Step-4: At last all the connections are closed and and profile created successfully message is displayed

**GET\_PROFILES** **(HTTP GET method):** retrieves a list of all profiles from the database.

Step-1: A database connection is created and checks whether the connection is created successfully or not.

Step-2:All the profiles from the database are fetched and if any exception is rasied a message saying failed to get profiles is displayed if not all the connections are closed and fetched rows are retuned as json objects.

**CREATE\_POST (HTTP POST method):** creates a new post for the specified profile in the database with the provided content.

Step-1: content is fetched from the json payload and if there is any error invalid request format is displayed.

Step-2: A database connection is created and checks whether the connection is created successfully or not.

Step-3: profile\_id and content are inserted into posts table and changes are commited.

Step-4: If any exception araises failed to create post message is displayed and connection are closed.

**GET\_POSTS (HTTP POST method)**: creates a new post for the specified profile in the database with the provided content.

Step-1: A database connection is created and checks whether the connection is created successfully or not.

Step-2: if created successfully fetches all the posts from the database based on the provided profile\_id and if any exception is rasied a message saying failed to get posts is displayed.

Step-3: All the connection are closed and fetched posts are returned.

**LIKE\_POST(HTTP PUT method):** increments the like\_count column for the specified post by 1.

Step-1: A database connection is created and checks whether the connection is created successfully or not.

Step-2: If yes, like\_count is incremented by 1 and changes are commited.

Step-3: All the connections are closed and post liked successfully message Is displayed.

**CREATE\_COMMENT(HTTP POST method):** creates a new comment for the specified post in the database with the provided content.

Step-1: A database connection is created and checks whether the connection is created successfully or not.

Step-2: content is fetched from the json payload and inserted into the comments table and changes are commited.

Step-3: All the connections are closed and comment created successfully message is displayed.

Step-4: If any exception is raised it will be displayed with error code 500.

**GitHub link:**