I created Algorithm, test\_cases, api, Dockerfile, requirement files

Algorithm Python file:

Create node -> User

🡪Pass parameters user-id, name, and email

Add Friends: - Using set method.

🡪 Function add\_friends

Function: - Suggest\_friends

**Test cases** also add for Algorithm, run test\_cases.py run file

**Data Base**: I used MySQL server, I wrote the sql queries

**For inserter query for user:**

INSERT INTO Users(user\_id,name,email) VALUES(123,”siva”,”siva@gmail.com”)

**For inserter query for Friendship:**

INSERT INTO Friendships(user\_id,frind\_id) VALUES(123,234)

INSERT INTO Friendships(frind\_id,user\_id) VALUES(123,234)

**Recommendations:**

INSERT INTO Recommendations (user\_id, recommended\_user\_id, common\_friends\_count) VALUES (123, 234,2)

API File:

Api is created using Flask Framework.

Add User:

Body in pass parameters 🡪 user\_id, name, email

{“user\_id”:1,

“name”:”siva”,

“email”:”siva@gmail.com”

}

[url :-](url:-) localhost:5000/add\_user

Add Friend:

Body in pass parameters 🡪 user\_id, friend\_id

{“user\_id”:1,

“friend\_id”:2

}

[url :-](url:-) localhost:5000/add\_friend

Get suggest Friends:

url in pass parameters 🡪 user\_id

[url :-](url:-) localhost:5000/suggest\_friends?user\_id=1

Dockerfile:

It has image 3.9-slim.

Working directory app.

Copy the all into app.

Run requirements.text file.

This server expose 5000.

Run the application Cmd line.