```
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```

REST API for each service

User Service

1. Create User

CPSC 449 Project – 2

- **URL endpoint** = /createUser
- Method = Post
- **Description** = API to registers a new user account
- Request = {"username": "peter","email": "peterpan@yahoo.com","password": "peter12345"
- HTTP status codes = 201 Created, 409 Resource conflict, 400 Bad Request, 500 Internal server error
- 2. Authenticate User
 - **URL Endpoint** = /authenticateUser
 - Method = Post
 - **Description** = API for authentication to from the username and password.
 - Request = {

 "username": "peter"

 "password": "peter12345"
 - Response = "Login Successful!"
 HTTP status codes = 200 Okay, 401 Unauthorized Login, 500 Internal Server Error

- 3. Add Follower
- **URL Endpoint** = /addFollower
- Method = Post
- **Description** = API to start following a new user.

- HTTP status codes = 200 Okay, 500 Internal server error
- 4. Remove Follower
- **URL Endpoint** = /removeFollower
- Method = Post
- **Description** = API to stop following a user.
- Request = {
 "username": "stan",
 "usernameToFollow": "jake"
 }
- **Response** = "Record Deleted!"
- HTTP status codes = 200 Okay, 404 Not Found, 500 Internal server error

Timelines Service

- 1. Get User Timeline
 - **URL endpoint** = / getUserTimeline
 - Method = Post
 - **Description** = API to get all recent tweets from a user.

```
• Response = [

"peter",
"blog23",
"2020-10-03 20:15:58.290501"

]
```

• HTTP status codes = 200 – Okay, 404 – Not Found, 500 – Internal server error

2. Get Public Timeline

- **URL Endpoint** = /getPublicTimeline
- Method = Get
- **Description** = API for Returns recent tweets from all users.

```
• Response = \{
              [
                     "peter",
                     "Flask blog 1!!",
                     "2020-10-08 16:12:06.662371"
              ],
              ſ
                      "tom",
                      "Python blog 1!!",
                      "2020-10-08 16:11:56.449666"
              ],
              "rohan",
                     "Microservices blog 1!!",
                     "2020-10-08 16:11:37.355295"
              ],
              "jake",
                     "web backend blog 10!!",
                     "2020-10-08 15:00:23.281452"
              ]
```

• HTTP status codes = 200 - Okay, 500 - Internal server error

3. Get Home Timeline

```
• URL Endpoint = /getHomeTimeline
```

```
• Method = Post
```

• **Description** = API to returns recent tweets from all users that this user follows.

```
• Request = {
                 "username": "peter"
   Response = [
                        "stan",
                        "blog15",
                        "2020-10-06 20:22:58.290501"
                 ],
                 "stan",
                        "blog14",
                        "2020-10-06 20:16:58.290501"
                 ],
                 ſ
                        "rohan",
                        "blog19",
                        "2020-10-06 20:12:58.290501"
                 ]
          ]
```

• HTTP status codes = 200 – Okay, 404– Not Found, 500 – Internal server error

4. Post Tweet

```
    URL Endpoint = / postTweet
    Method = Post
    Description = API to post a new tweet.
    Request = {

            "username": "peter",
            "post": "Flask blog 1!!"
```

• **HTTP status codes** = 200 – Okay, 500 – Internal server error