Users API Operations

all_users()

SQL Query	Selects all columns in Users Table
URL Endpoint	http://127.0.0.1:5000/

HTTP Verb	HTTP Status Code	HTTP Response to Status Codes
GET	200 OK	Returns all users in the database using the SQL Query
POST	201 CREATED	1) Encrypt password by generating a password hash 2) Runs create_user(username, email, password)

create_user(username, email, password)

SQL Query	1) Create user with username, email, and a password in JSON
	{ "username": username, "email": email, "password": password
	} 2) Insert this user into the Users table in the database

user(username)

URL Endpoint	http://127.0.0.1:5000/ <string:username></string:username>
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HTTP Verb	HTTP Status Code	HTTP Response to Status Codes
GET	• 200 OK	Run user_by_username(username) query

user_by_username(username)

authenticate_user(username)

URL	http://127.0.0.1:5000/ <string:username>/authenticate?password=suppliedPassword</string:username>
Endpoint	suppliedPassword is a parameter submitted in the URL

HTTP Verb	HTTP Status Codes	HTTP Response to Status Codes
GET	302 FOUND303 NOT FOUND409 CONFLICT	 suppliedPassword = password of user(username) suppliedPassword != password of user(username) suppliedPassword not passed in as parameter in URL

following(username)

URL Endpoint	http://127.0.0.1:5000/ <string:username>/following?username=removeFollower</string:username>	
	removeFollower is username parameter submitted in the URL	

HTTP Verb	HTTP Status Codes	HTTP Response to Status Codes
GET	200 OK	Run show_following(username)
POST	201 CREATED	Run add_follower(username, usernameToAdd)
DELETE	206 PARTIAL CONTENT	Run remove_follower(username, usernameToRemove)

show_following(username)

SQL Query	1) Merge Relationships & Users Table on followed names & username
	2) Select follower names, followed names, usernames, & emails from Table (1)
	3) Get Relationships where the name of the follower is username in Table (2)
	4) Select usernames & emails from Table(3)

add_follower(username, usernameToAdd)

SQL Query	1) Add username & usernameToAdd to Relationships table
	{
	}

remove_follower(username, usernameToRemove)

SQL Query	1. Remove username & usernameToAdd relationship out of Relationships table
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Timelines API Operations

get_public_timeline()

URL Endpoint	http://127.0.0.1:5001/
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HTTP Verb	HTTP Status Codes	HTTP Response to Status Codes
GET	200 OK	Run public_timeline() query

public_timeline()

SQL Query	1) Select author names, created timestamps, and tweet texts from Posts table
	2) Sort rows from Table (1) by most recent time in created timestamp
	3) Show 25 rows in Table (2)

get_home_timeline(username)

URL Endpoint	http://127.0.0.1:5001/ <string:username>/home</string:username>
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HTTP Verb	HTTP Status Codes	HTTP Response to Status Codes
GET	200 OK	Run home_timeline() query

home_timeline(username)

SQL Query	1) Merge Relationships & Posts Table on followed names & author name 2) Select these columns from Table (1): a) Follower names b) Followed names c) Post's author name d) Post created timestamp e) Post's tweet 3) Get Relationships where follower name is username in Table (2) 4) Select post's author, name, created timestamp, & tweet from Table (3)
	4) Select post's author_name, created timestamp, & tweet from Table (3)

5) Sort rows from Table (1) by most recent time in created timestamp6) Show 25 rows in Table (2)

get_user_timeline(username)

URL Endpoint	http://127.0.0.1:5001/ <string:username>/user</string:username>
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HTTP Verb	HTTP Status Codes	HTTP Response to Status Codes
GET	200 OK	Run user_timeline(username) query
POST	201 CREATED	Run post_tweet(username) query

user_timeline(username)

SQL Query	Select author names, created timestamps, and tweet texts from Posts table Get Posts where the author name of a post is username
	3) Sort rows from Table (2) by most recent time in created timestamp4) Show 25 rows in Table (3)

post_tweet(username)

1) Create username's post by typing in the tweet's text in JSON	
{	
"tweet": <text></text>	
2) Insert it to the Posts table in the database	