

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 <code>create_user(username, email, password)</code>

`create_user(username, email, password)`

SQL Query	1) Create user with <code>username</code> , <code>email</code> , and a password 2) Insert this user into the Users table in the database
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user(username)

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

`user_by_username(username)`

SQL Query	1) Selects all columns from user with <code>username</code> in Users table
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authenticate_user(username)

URL Endpoint	http://127.0.0.1:5000/ <string:username>/authenticate?password=suppliedPassword <ul style="list-style-type: none">suppliedPassword is a parameter submitted in the URL
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HTTP Verb	HTTP Status Codes	HTTP Response to Status Codes
GET	<ul style="list-style-type: none">302 FOUND303 NOT FOUND409 CONFLICT	<ul style="list-style-type: none">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>/followers?username=removeFollower <ul style="list-style-type: none">removeFollower is username parameter submitted in the URL
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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	<ol style="list-style-type: none">1) Merge Relationships & Users Table on followed names & username2) 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)
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add_follower(username, usernameToAdd)

SQL Query	<ol style="list-style-type: none">1) Add username & usernameToAdd to Relationships table
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remove_follower(username, usernameToRemove)

SQL Query	<ol style="list-style-type: none">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 <code>public_timeline()</code> query

`public_timeline()`

SQL Query	<ol style="list-style-type: none">1) Select author names, created timestamps, and tweet texts from Posts table2) Sort rows from Table (1) by most recent time in created timestamp3) Show 25 rows in Table (2)
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get_home_timeline(username)

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

`home_timeline(username)`

SQL Query	<ol style="list-style-type: none">1) Merge Relationships & Posts Table on followed names & author name2) Select these columns from Table (1):<ol style="list-style-type: none">a) Follower namesb) Followed namesc) Post's author named) Post created timestampe) Post's tweet3) Get Relationships where follower name is <code>username</code> in Table (2)4) Select post's <code>author_name</code>, 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)
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get_user_timeline(username)

URL Endpoint	http://127.0.0.1:5001/<string:username>/user
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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	<ol style="list-style-type: none">1) Select author names, created timestamps, and tweet texts from Posts table2) Get Posts where the author name of a post is username3) Sort rows from Table (2) by most recent time in created timestamp4) Show 25 rows in Table (3)
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post_tweet(username)

SQL Query	<ol style="list-style-type: none">1) Create post with the name of the author & the text the tweet contains2) Insert it to the Posts table in the database
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