Alex Mulvaney
Project 6

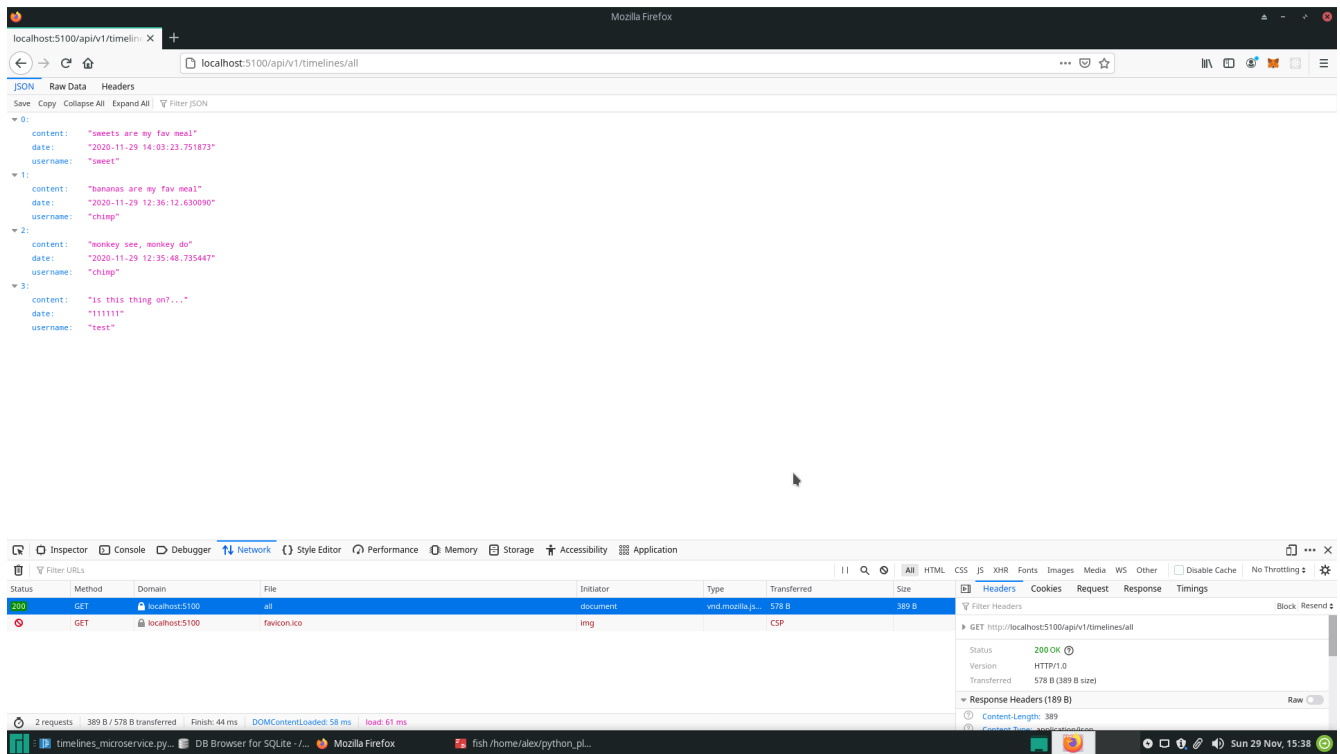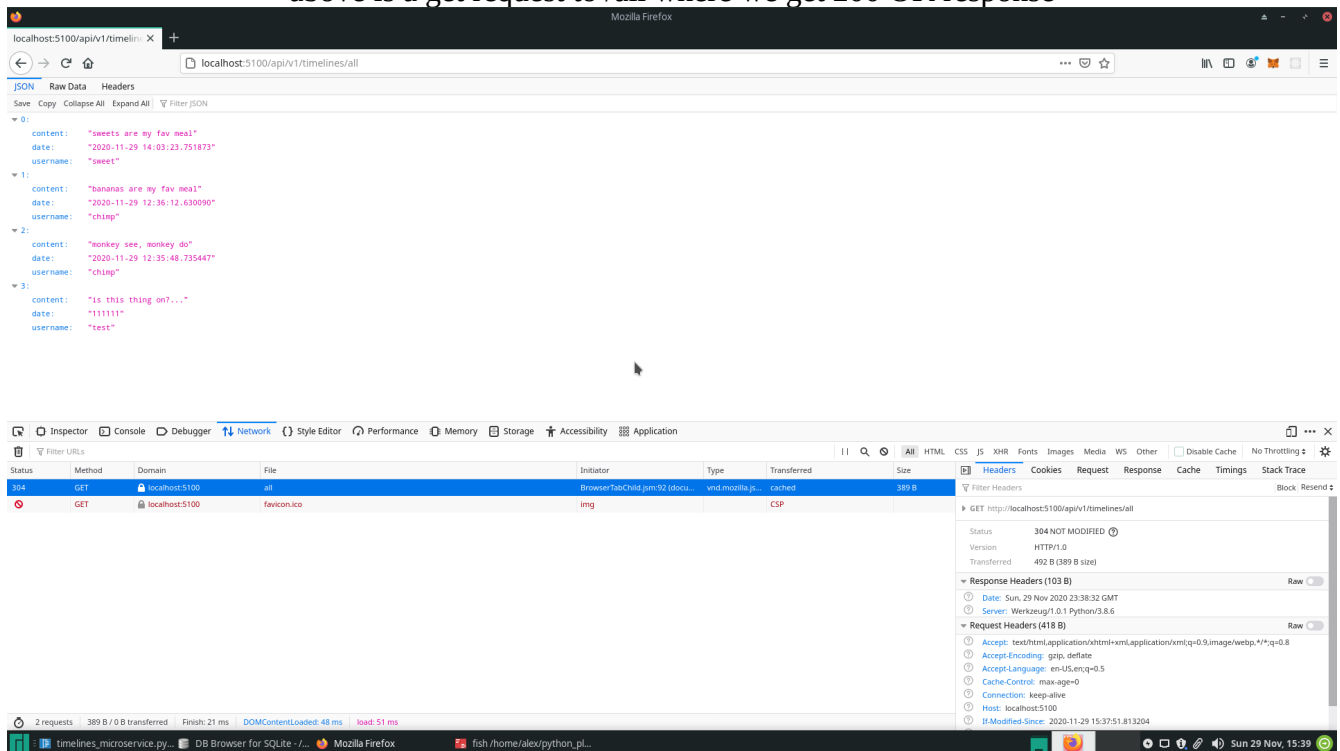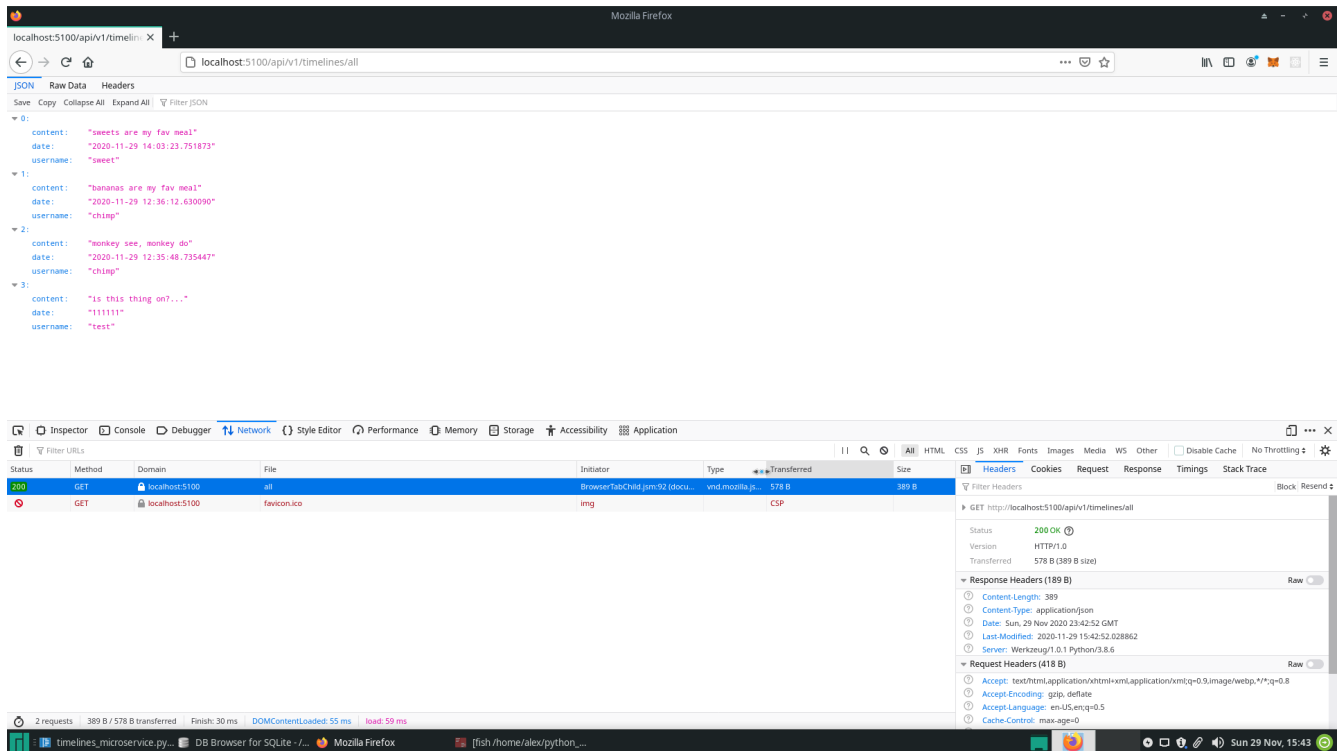# HTTP CACHING

above is a get request to /all where we get 200 OK response
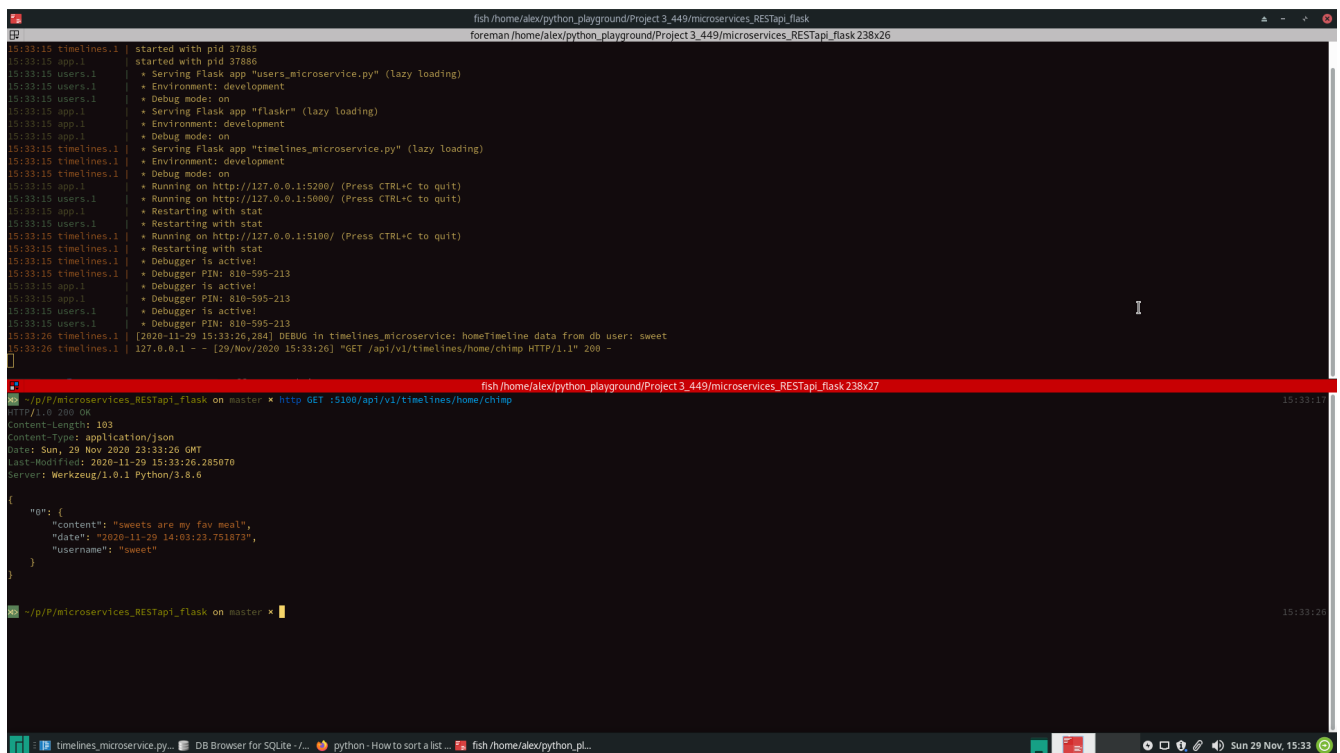

When we make the call again we see that we get 304 response instead with a 'if-modified-since' tag of 15:37

Lastly we wait 5 minutes making another get request at 15:43 this time getting 200 OK

OBJECT CACHING

In the top terminal after making a request for a user's home timeline we see that the data comes from the database since it was not already in cache

fish /home/alex/python_playground/Project 3_449/microservices_RESTapi_flask

foreman /home/alex/python_playground/Project 3_449/microservices_RESTapi_flask 238x26

15:33:15 users.1 | * Debug mode: on
15:33:15 app.1 | * Serving Flask app "flaskr" (lazy loading)
15:33:15 app.1 | * Environment: development
15:33:15 app.1 | * Debug mode: on
15:33:15 timelines.1 | * Serving Flask app "timelines_microservice.py" (lazy loading)
15:33:15 timelines.1 | * Environment: development
15:33:15 timelines.1 | * Debug mode: on
15:33:15 app.1 | * Running on http://127.0.0.1:5200/ (Press CTRL+C to quit)
15:33:15 users.1 | * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
15:33:15 app.1 | * Restarting with stat
15:33:15 users.1 | * Restarting with stat
15:33:15 timelines.1 | * Running on http://127.0.0.1:5100/ (Press CTRL+C to quit)
15:33:15 timelines.1 | * Restarting with stat
15:33:15 timelines.1 | * Debugger is active!
15:33:15 timelines.1 | * Debugger PIN: 810-595-213
15:33:15 app.1 | * Debugger is active!
15:33:15 app.1 | * Debugger PIN: 810-595-213
15:33:15 users.1 | * Debugger is active!
15:33:15 users.1 | * Debugger PIN: 810-595-213
15:33:26 timelines.1 | [2020-11-29 15:33:26,284] DEBUG in timelines_microservice: homeTimeline data from db user: sweet
15:33:26 timelines.1 | 127.0.0.1 - - [29/Nov/2020 15:33:26] "GET /api/v1/timelines/home/chimp HTTP/1.1" 200 -
15:34:09 timelines.1 | [2020-11-29 15:34:09,399] DEBUG in timelines_microservice: homeTimeline data from db user: test
15:34:09 timelines.1 | [2020-11-29 15:34:09,399] DEBUG in timelines_microservice: homeTimeline data from db user: chimp
15:34:09 timelines.1 | [2020-11-29 15:34:09,400] DEBUG in timelines_microservice: homeTimeline data from cache user: sweet
15:34:09 timelines.1 | 127.0.0.1 - - [29/Nov/2020 15:34:09] "GET /api/v1/timelines/home/admin HTTP/1.1" 200 -

fish /home/alex/python_playground/Project 3_449/microservices_RESTapi_flask 238x27

Server: Werkzeug/1.0.1 Python/3.8.6

{
    "0": {
        "content": "sweets are my fav meal",
        "date": "2020-11-29 14:03:23.751873",
        "username": "sweet"
    },
    "1": {
        "content": "bananas are my fav meal",
        "date": "2020-11-29 12:36:12.630090",
        "username": "chimp"
    },
    "2": {
        "content": "monkey see, monkey do",
        "date": "2020-11-29 12:35:48.735447",
        "username": "chimp"
    },
    "3": {
        "content": "is this thing on?...",
        "date": "111111",
        "username": "test"
    }
}

~/p/P/microservices_RESTapi_flask on master × ⬢

15:34:09

In this subsequent call we see that this user shares a following user as the previous. We see that two of the user's post data comes directly from the database while one of the user's data comes from cache where it was recently stored