

Project: 4 Gateway

Project Members:

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We have not made any changes to project 2

Screenshots

- Running command “foreman start -m gateway=1,user=3,timelines=3” will start 3 services, and user and timelines has 3 instances

```
Last login: Thu Nov  5 23:21:50 on ttys002
(base) dhruvkumarpatel@Dhrusv-MacBook-Pro ~ % cd Project4gateway
(base) dhruvkumarpatel@Dhrusv-MacBook-Pro Project4gateway % foreman start -m gateway=1,user=3,timelines=3
23:30:50 gateway.1 | started with pid 9298
23:30:50 user.1   | started with pid 9299
23:30:50 user.2   | started with pid 9300
23:30:50 user.3   | started with pid 9301
23:30:50 timelines.1 | started with pid 9302
23:30:50 timelines.2 | started with pid 9303
23:30:50 timelines.3 | started with pid 9304
23:30:51 user.1   * Serving Flask app "user.py" (lazy loading)
23:30:51 user.1   * Environment: development
23:30:51 user.1   * Debug mode: on
23:30:51 gateway.1 | * Serving Flask app "gateway" (lazy loading)
23:30:51 gateway.1 | * Environment: development
23:30:51 gateway.1 | * Debug mode: on
23:30:51 user.3   * Serving Flask app "user.py" (lazy loading)
23:30:51 user.3   * Environment: development
23:30:51 user.3   * Debug mode: on
23:30:51 timelines.2 | * Serving Flask app "timelines.py" (lazy loading)
23:30:51 timelines.2 | * Environment: development
23:30:51 timelines.2 | * Debug mode: on
23:30:52 timelines.1 | * Serving Flask app "timelines.py" (lazy loading)
23:30:52 timelines.1 | * Environment: development
23:30:52 timelines.1 | * Debug mode: on
23:30:52 user.2   * Serving Flask app "user.py" (lazy loading)
23:30:52 user.2   * Environment: development
23:30:52 user.2   * Debug mode: on
23:30:52 timelines.1 | * Running on http://127.0.0.1:5200/ (Press CTRL+C to quit)
23:30:52 gateway.1 | * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
23:30:52 gateway.1 | * Restarting with fsevents reloader
23:30:52 user.1   * Running on http://127.0.0.1:5100/ (Press CTRL+C to quit)
23:30:52 user.1   * Restarting with fsevents reloader
23:30:52 timelines.3 | * Serving Flask app "timelines.py" (lazy loading)
23:30:52 timelines.3 | * Environment: development
23:30:52 timelines.3 | * Debug mode: on
23:30:52 user.3   * Running on http://127.0.0.1:5102/ (Press CTRL+C to quit)
23:30:52 user.3   * Restarting with fsevents reloader
23:30:52 timelines.2 | * Running on http://127.0.0.1:5201/ (Press CTRL+C to quit)
23:30:52 user.2   * Running on http://127.0.0.1:5101/ (Press CTRL+C to quit)
23:30:52 timelines.2 | * Restarting with fsevents reloader
23:30:52 user.2   * Restarting with fsevents reloader
23:30:52 timelines.1 | * Restarting with fsevents reloader
23:30:52 timelines.3 | * Running on http://127.0.0.1:5202/ (Press CTRL+C to quit)
23:30:52 timelines.3 | * Restarting with fsevents reloader
23:30:53 user.1   * Debugger is active!
23:30:53 gateway.1 | * Debugger is active!
23:30:53 user.1   * Debugger PIN: 119-263-902
23:30:53 gateway.1 | * Debugger PIN: 119-263-902
23:30:53 timelines.1 | * Debugger is active!
23:30:53 user.2   * Debugger is active!
23:30:53 timelines.1 | * Debugger PIN: 119-263-902
23:30:53 user.2   * Debugger PIN: 119-263-902
23:30:53 user.3   * Debugger is active!
23:30:53 user.3   * Debugger PIN: 119-263-902
23:30:53 timelines.2 | * Debugger is active!
23:30:53 timelines.2 | * Debugger PIN: 119-263-902
23:30:53 timelines.3 | * Debugger is active!
23:30:53 timelines.3 | * Debugger PIN: 119-263-902
```

- All the 3 instances of timelines and user are working, and rotated one after other

```
Project4gateway — python3.8 + foreman: master TMPDIR=/var/folders/8g/yd3gc2x3sdbz0vq0g01bj00000gn/T/XPC_FLAGS=0x0 TER...
23:30:53 user.2 | * Debugger is active!
23:30:53 timelines.1 | * Debugger PIN: 119-263-902
23:30:53 user.2 | * Debugger PIN: 119-263-902
23:30:53 user.3 | * Debugger is active!
23:30:53 user.3 | * Debugger PIN: 119-263-902
23:30:53 timelines.2 | * Debugger is active!
23:30:53 timelines.2 | * Debugger PIN: 119-263-902
23:30:53 timelines.3 | * Debugger is active!
23:30:53 timelines.3 | * Debugger PIN: 119-263-902 23:31:12 timelines.1 | 127.0.0.1 - - [05/Nov/2020 23:31:12] "GET /getPublicT...
meline HTTP/1.1" 200 -
23:31:12 gateway.1 | 127.0.0.1 - - [05/Nov/2020 23:31:12] "GET /getPublicTimeline HTTP/1.1" 200 -
23:31:16 timelines.2 | 127.0.0.1 - - [05/Nov/2020 23:31:16] "GET /getPublicTimeline HTTP/1.1" 200 -
23:31:16 gateway.1 | 127.0.0.1 - - [05/Nov/2020 23:31:16] "GET /getPublicTimeline HTTP/1.1" 200 -
23:31:17 timelines.3 | 127.0.0.1 - - [05/Nov/2020 23:31:17] "GET /getPublicTimeline HTTP/1.1" 200 -
23:31:17 gateway.1 | 127.0.0.1 - - [05/Nov/2020 23:31:17] "GET /getPublicTimeline HTTP/1.1" 200 -
23:31:29 timelines.1 | 127.0.0.1 - - [05/Nov/2020 23:31:29] "GET /getPublicTimeline HTTP/1.1" 200 -
23:31:29 gateway.1 | 127.0.0.1 - - [05/Nov/2020 23:31:29] "GET /getPublicTimeline HTTP/1.1" 200 -
23:31:32 timelines.2 | 127.0.0.1 - - [05/Nov/2020 23:31:32] "GET /getPublicTimeline HTTP/1.1" 200 -
23:31:32 gateway.1 | 127.0.0.1 - - [05/Nov/2020 23:31:32] "GET /getPublicTimeline HTTP/1.1" 200 -
23:31:44 timelines.3 | 127.0.0.1 - - [05/Nov/2020 23:31:44] "GET /getPublicTimeline HTTP/1.1" 200 -
23:31:44 gateway.1 | 127.0.0.1 - - [05/Nov/2020 23:31:44] "GET /getPublicTimeline HTTP/1.1" 200 -
23:31:45 timelines.1 | 127.0.0.1 - - [05/Nov/2020 23:31:45] "GET /getPublicTimeline HTTP/1.1" 200 -
23:31:45 gateway.1 | 127.0.0.1 - - [05/Nov/2020 23:31:45] "GET /getPublicTimeline HTTP/1.1" 200 -
},  
{  
    "tweet": "hi c"  
},  
{  
    "tweet": "hi b"  
},  
{  
    "tweet": "hi a"  
},  
{  
    "tweet": "hi B"  
},  
{  
    "tweet": "hi C"  
},  
{  
    "tweet": "hi E"  
},  
{  
    "tweet": "hi dhruv"  
}  
(base) dhruvkumarpatel@Dhruv's-MacBook-Pro ~ %
```

```
Project4gateway — python3.8 • foreman: master TMPDIR=/var/folders/8g/lyd3gc2x3sdbz0qv0g0bj01jw  
23:31:12 gateway.1 | 127.0.0.1 - - [05/Nov/2020 23:31:12] "GET /getPublicTimeline HTTP/1.1" 200 -  
23:31:16 timelines.2 | 127.0.0.1 - - [05/Nov/2020 23:31:16] "GET /getPublicTimeline HTTP/1.1" 200 -  
23:31:16 gateway.1 | 127.0.0.1 - - [05/Nov/2020 23:31:16] "GET /getPublicTimeline HTTP/1.1" 200 -  
23:31:17 timelines.3 | 127.0.0.1 - - [05/Nov/2020 23:31:17] "GET /getPublicTimeline HTTP/1.1" 200 -  
23:31:17 gateway.1 | 127.0.0.1 - - [05/Nov/2020 23:31:17] "GET /getPublicTimeline HTTP/1.1" 200 -  
23:31:29 timelines.1 | 127.0.0.1 - - [05/Nov/2020 23:31:29] "GET /getPublicTimeline HTTP/1.1" 200 -  
$ 23:31:29 gateway.1 | 127.0.0.1 - - [05/Nov/2020 23:31:29] "GET /getPublicTimeline HTTP/1.1" 200 -  
23:31:32 timelines.2 | 127.0.0.1 - - [05/Nov/2020 23:31:32] "GET /getPublicTimeline HTTP/1.1" 200 -  
23:31:32 gateway.1 | 127.0.0.1 - - [05/Nov/2020 23:31:32] "GET /getPublicTimeline HTTP/1.1" 200 -  
23:31:44 timelines.3 | 127.0.0.1 - - [05/Nov/2020 23:31:44] "GET /getPublicTimeline HTTP/1.1" 200 -  
23:31:44 gateway.1 | 127.0.0.1 - - [05/Nov/2020 23:31:44] "GET /getPublicTimeline HTTP/1.1" 200 -  
23:31:45 timelines.1 | 127.0.0.1 - - [05/Nov/2020 23:31:45] "GET /getPublicTimeline HTTP/1.1" 200 -  
23:31:45 gateway.1 | 127.0.0.1 - - [05/Nov/2020 23:31:45] "GET /getPublicTimeline HTTP/1.1" 200 -  
23:32:34 user.1 | 127.0.0.1 - - [05/Nov/2020 23:32:34] "POST /createUser HTTP/1.1" 201 -  
23:32:34 gateway.1 | 127.0.0.1 - - [05/Nov/2020 23:32:34] "POST /createUser HTTP/1.1" 201 -  
23:32:47 user.2 | 127.0.0.1 - - [05/Nov/2020 23:32:47] "POST /createUser HTTP/1.1" 201 -  
23:32:47 gateway.1 | 127.0.0.1 - - [05/Nov/2020 23:32:47] "POST /createUser HTTP/1.1" 201 -  
23:32:55 user.3 | 127.0.0.1 - - [05/Nov/2020 23:32:55] "POST /createUser HTTP/1.1" 201 -  
23:32:55 gateway.1 | 127.0.0.1 - - [05/Nov/2020 23:32:55] "POST /createUser HTTP/1.1" 201 -  
23:33:07 user.1 | 127.0.0.1 - - [05/Nov/2020 23:33:07] "POST /createUser HTTP/1.1" 201 -  
23:33:07 gateway.1 | 127.0.0.1 - - [05/Nov/2020 23:33:07] "POST /createUser HTTP/1.1" 201 -  
23:33:24 user.2 | 127.0.0.1 - - [05/Nov/2020 23:33:24] "POST /createUser HTTP/1.1" 201 -  
23:33:24 gateway.1 | 127.0.0.1 - - [05/Nov/2020 23:33:24] "POST /createUser HTTP/1.1" 201 -  
  
dhruvkumarpatel — zsh — 80x24  
Date: Fri, 06 Nov 2020 07:32:55 GMT  
  
User created%  
(base) dhruvkumarpatel@Dhruvv-MacBook-Pro ~ % curl -i -X POST -H "Content-Type: application/json" -d '{"username":"name123122", "email":"email11112@site.com", "password":"password "}' http://127.0.0.1:5000/createUser  
HTTP/1.0 201 CREATED  
Content-Type: text/html; charset=utf-8  
Content-Length: 12  
Server: Werkzeug/1.0.1 Python/3.8.3  
Date: Fri, 06 Nov 2020 07:33:07 GMT  
  
User created%  
(base) dhruvkumarpatel@Dhruvv-MacBook-Pro ~ % curl -i -X POST -H "Content-Type: application/json" -d '{"username":"name121112", "email":"email123122@site.com", "password":"password "}' http://127.0.0.1:5000/createUser  
HTTP/1.0 201 CREATED  
Content-Type: text/html; charset=utf-8  
Content-Length: 12  
Server: Werkzeug/1.0.1 Python/3.8.3  
Date: Fri, 06 Nov 2020 07:33:24 GMT  
  
User created%  
(base) dhruvkumarpatel@Dhruvv-MacBook-Pro ~ %
```

- Once we got error 500 (user 1), service was terminated. never called again. It was removed from routing

```
dhruvkumarpatel — zsh — 80x24
Date: Fri, 06 Nov 2020 05:57:14 GMT

User created
(base) dhruvkumarpatel@Dhruv's-MacBook-Pro ~ % curl -i -X POST -H "Content-Type: application/json" -d '{"username":"naccavmxedvvvwa", "email":"v@sivxdtce.com", "password":"password "}' http://127.0.0.1:5000/createUser
HTTP/1.0 201 CREATED
Content-Type: text/html; charset=utf-8
Content-Length: 12
Server: Werkzeug/1.0.1 Python/3.8.3
Date: Fri, 06 Nov 2020 05:57:27 GMT

User created
(base) dhruvkumarpatel@Dhruv's-MacBook-Pro ~ % curl -i -X POST -H "Content-Type: application/json" -d '{"username":"naccavmxedvvvwa", "email":"v@sivxdtce.com", "password":"password "}' http://127.0.0.1:5000/createUser
HTTP/1.0 201 CREATED
Content-Type: text/html; charset=utf-8
Content-Length: 12
Server: Werkzeug/1.0.1 Python/3.8.3
Date: Fri, 06 Nov 2020 05:57:55 GMT

User created
(base) dhruvkumarpatel@Dhruv's-MacBook-Pro ~ %

Project4gateway — python3.8 < foreman: master TERM_PROGRAM=Apple_Terminal SHELL=/bin/zsh TERM=xterm-256color TMPDIR=/v... /get
21:56:24 gateway_1 | * Debugger PIN: 119-263-902
21:56:24 user.1 | * Debugger is active!
21:56:24 user.1 | * Debugger PIN: 119-263-902
21:56:24 timelines.1 | * Debugger is active!
21:56:24 timelines.3 | * Debugger is active!
21:56:24 timelines.3 | * Debugger PIN: 119-263-902
21:56:24 user.2 | * Debugger is active!
21:56:24 timelines.1 | * Debugger PIN: 119-263-902
21:56:24 timelines.2 | * Debugger is active!
21:56:24 timelines.2 | * Debugger PIN: 119-263-902
21:56:24 user.2 | * Debugger PIN: 119-263-902
21:56:26 user.1 | 127.0.0.1 - - [05/Nov/2020 21:56:26] "POST /createUser HTTP/1.1" 500 -
21:56:26 gateway_1 | 127.0.0.1 - - [05/Nov/2020 21:56:26] "POST /createUser HTTP/1.1" 500 -
21:56:29 timelines.1 | 127.0.0.1 - - [05/Nov/2020 21:56:29] "GET /getPublicTimeline HTTP/1.1" 200 -
21:56:29 gateway_1 | 127.0.0.1 - - [05/Nov/2020 21:56:29] "GET /getPublicTimeline HTTP/1.1" 200 -
21:56:58 user.2 | 127.0.0.1 - - [05/Nov/2020 21:56:58] "POST /createUser HTTP/1.1" 201 -
21:56:58 gateway_1 | 127.0.0.1 - - [05/Nov/2020 21:56:58] "POST /createUser HTTP/1.1" 201 -
21:57:14 user.3 | 127.0.0.1 - - [05/Nov/2020 21:57:14] "POST /createUser HTTP/1.1" 201 -
21:57:14 gateway_1 | 127.0.0.1 - - [05/Nov/2020 21:57:14] "POST /createUser HTTP/1.1" 201 -
21:57:27 user.2 | 127.0.0.1 - - [05/Nov/2020 21:57:27] "POST /createUser HTTP/1.1" 201 -
21:57:27 gateway_1 | 127.0.0.1 - - [05/Nov/2020 21:57:27] "POST /createUser HTTP/1.1" 201 -
21:57:55 user.3 | 127.0.0.1 - - [05/Nov/2020 21:57:55] "POST /createUser HTTP/1.1" 201 -
21:57:55 gateway_1 | 127.0.0.1 - - [05/Nov/2020 21:57:55] "POST /createUser HTTP/1.1" 201 -
```

- First time it Authenticate as password was correct, second time password was wrong, so it responded with “Unauthorized”

```
Project4gateway — python3.8 < foreman: master TMPDIR=/var/folders/8g/lyd3gc2x3sdbz0vqv0g01bj00000gn/T/XPC_FLAGS...
09:45:54 timelines.3 | * Restarting with fsevents reloader
09:45:54 user.2    | * Restarting with fsevents reloader
09:45:56 user.3    | * Debugger is active!
09:45:56 user.3    | * Debugger PIN: 119-263-902
09:45:56 gateway.1 | * Debugger is active!
09:45:56 timelines.2 | * Debugger is active!
09:45:56 timelines.2 | * Debugger PIN: 119-263-902
09:45:56 gateway.1 | * Debugger PIN: 119-263-902
09:45:56 timelines.1 | * Debugger is active!
09:45:56 timelines.1 | * Debugger PIN: 119-263-902
09:45:56 user.1    | * Debugger is active!
09:45:56 user.1    | * Debugger PIN: 119-263-902
09:45:56 timelines.3 | * Debugger is active!
09:45:56 timelines.3 | * Debugger PIN: 119-263-902
09:45:56 user.2    | * Debugger is active!
09:45:56 user.2    | * Debugger PIN: 119-263-902
09:45:57 user.1    | 127.0.0.1 - - [06/Nov/2020 09:45:57] "POST /authenticateUser HTTP/1.1" 202 -
09:45:57 gateway.1 | 127.0.0.1 - - [06/Nov/2020 09:45:57] "POST /authenticateUser HTTP/1.1" 202 -
09:46:08 user.2    | 127.0.0.1 - - [06/Nov/2020 09:46:08] "POST /authenticateUser HTTP/1.1" 401 -
09:46:08 gateway.1 | 127.0.0.1 - - [06/Nov/2020 09:46:08] "POST /authenticateUser HTTP/1.1" 401 -
a record          dhruvkumarpatel — zsh — 80x25
Unauthorized%      if it is not.
(base) dhruvkumarpatel@Dhruv's-MacBook-Pro ~ % curl -i -X POST -H "Content-Type: application/json" -d '{"username":"emanuel","password":"python"}' http://127.0.0.1:5000/authenticateUser
HTTP/1.0 202 ACCEPTED
Content-Type: application/json
Content-Length: 59
Server: Werkzeug/1.0.1 Python/3.8.3
Date: Fri, 06 Nov 2020 17:45:57 GMT

{
  "message": "emanuel was authenticated successfully."
}

(base) dhruvkumarpatel@Dhruv's-MacBook-Pro ~ % curl -i -X POST -H "Content-Type: application/json" -d '{"username":"emanuel","password":"pythonq"}' http://127.0.0.1:5000/authenticateUser
HTTP/1.0 401 UNAUTHORIZED
WWW-Authenticate: Basic realm="Login Required"
Content-Type: text/html; charset=utf-8
Content-Length: 12
Server: Werkzeug/1.0.1 Python/3.8.3
Date: Fri, 06 Nov 2020 17:46:08 GMT

Unauthorized%
(base) dhruvkumarpatel@Dhruv's-MacBook-Pro ~ %

```