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Cpsc 222

running pwd and ls -la from your repo directory that contains the above files

```
user@user-VirtualBox:~/cpsc222/cpsc-222/python-api$ cd ~/cpsc222/cpsc-222/python
-api
pwd
ls -la
/home/user/cpsc222/cpsc-222/python-api
total 16
drwxrwxr-x 2 user user 4096 Feb  8 11:08 .
drwxrwxr-x 4 user user 4096 Feb  4 09:33 ..
-rwxrwxr-x 1 user user 2556 Feb  8 10:53 api_server.py
-rw-rw-r-- 1 user user 276 Feb  8 11:08 localapi.service
user@user-VirtualBox:~/cpsc222/cpsc-222/python-api$
```

Service is enabled and running

```
user@user-VirtualBox:~/cpsc222/cpsc-222/python-api$ systemctl --user status localapi.service --no-pager
● localapi.service - Python API Service
   Loaded: loaded (/home/user/.config/systemd/user/localapi.service; enabled;
preset: enabled)
   Active: active (running) since Sun 2026-02-08 11:21:59 EST; 22min ago
     Main PID: 1712 (python3)
        Tasks: 1 (limit: 4604)
       Memory: 9.5M (peak: 10.0M)
          CPU: 698ms
        CGroup: /user.slice/user-1000.slice/user@1000.service/app.slice/localapi.service
               └─1712 python3 /home/user/cpsc222/cpsc-222/python-api/api_server.py

Feb 08 11:21:59 user-VirtualBox systemd[1699]: Started localapi.service - Python API Service.
Hint: Some lines were ellipsized, use -l to show in full.
```

Curl users test:

```
user@user-VirtualBox:~/cpsc222/cpsc-222/python-api$ curl -i -X POST -u test:abcABC123456 http://127.0.0.1:3000/api/users | head
% Total    % Received % Xferd  Average Speed   Time   Time     Time Current
          Dload  Upload Total   Spent    Left Speed
100  759  100  759    0     0  78996      0  --:--:--  --:--:-- 84333
HTTP/1.0 200 OK
Server: BaseHTTP/0.6 Python/3.12.3
Date: Sun, 08 Feb 2026 16:45:14 GMT
Content-Type: application/json; charset=utf-8
Content-Length: 759

{"0": "root", "1": "daemon", "2": "bin", "3": "sys", "4": "sync", "5": "games", "6": "man", "7": "lp", "8": "mail", "9": "news", "10": "uucp", "11": "proxy", "12": "www-data", "13": "background", "14": "list", "15": "irc", "16": "apt", "17": "nobody", "18": "systemd-network", "19": "systemd-timesync", "20": "dhcpcd", "21": "messagebus", "22": "syslog", "23": "systemd-resolve", "24": "uuid", "25": "usbmux", "26": "tss", "27": "systemd-oom", "28": "kernoops", "29": "whoopsie", "30": "dnsmasq", "31": "avahi", "32": "tcpdump", "33": "sssd", "34": "speech-dispatcher", "35": "cups-pk-helper", "36": "fwupd-refresh", "37": "saned", "38": "geoclue", "39": "cups-browsed", "40": "hplip", "41": "gnome-remote-desktop", "42": "polkit", "43": "rtkit", "44": "colord", "45": "gnome-initial-setup", "46": "gdm", "47": "nm-openvpn", "48": "user", "49": "Debian-snmp"}user@user-VirtualBox:~/cpsc222/cpsc-222/python-api$
```

## Curl groups test:

```
user@user-VirtualBox:~/cpsc222/cpsc-222/python-api$ curl -i -X POST -u test:abcA  
BC123456 http://127.0.0.1:3000/api/groups | head  
% Total    % Received % Xferd  Average Speed   Time   Time     Current  
          Dload  Upload Total Spent   Left  Speed  
100 1107 100 1107    0     0 177k      0 --:--:-- --:--:-- 180k  
HTTP/1.0 200 OK  
Server: BaseHTTP/0.6 Python/3.12.3  
Date: Sun, 08 Feb 2026 16:47:24 GMT  
Content-Type: application/json; charset=utf-8  
Content-Length: 1107  
  
{"0": "root", "1": "daemon", "2": "bin", "3": "sys", "4": "adm", "5": "tty", "6": "disk", "7": "lp", "8": "mail", "9": "news", "10": "uucp", "11": "man", "12": "proxy", "13": "kmem", "14": "dialout", "15": "fax", "16": "voice", "17": "cdrom", "18": "floppy", "19": "tape", "20": "sudo", "21": "audio", "22": "dip", "23": "www-data", "24": "backup", "25": "operator", "26": "list", "27": "irc", "28": "src", "29": "shadow", "30": "utmp", "31": "video", "32": "sasl", "33": "plugdev", "34": "staff", "35": "games", "36": "users", "37": "nogroup", "38": "systemd-journal", "39": "systemd-network", "40": "crontab", "41": "systemd-timesync", "42": "input", "43": "sgx", "44": "kvm", "45": "render", "46": "messagebus", "47": "syslog", "48": "systemd-resolve", "49": "uuid", "50": "_ssh", "51": "tss", "52": "ssl-cert", "53": "systemd-oom", "54": "bluetooth", "55": "rdma", "56": "whoopsie", "57": "netdev", "58": "avahi", "59": "tcpdump", "60": "sssd", "61": "lpadmin", "62": "fwupd-refresh", "63": "scanner", "64": "saned", "65": "geoclue", "66": "pipewire", "67": "gnome-remote-desktop", "68": "pol
```

## Curl test authorization enforcement (no auth):

```
{"error": "unauthorized"}user@user-VirtualBox:~/cpsc2curl -i -X POST http://127.0  
.0.1:3000/api/users  
HTTP/1.0 401 Unauthorized  
Server: BaseHTTP/0.6 Python/3.12.3  
Date: Sun, 08 Feb 2026 16:48:42 GMT  

```

## Git config List:

```
user@user-VirtualBox:~/cpsc222/cpsc-222/python-api$ git config --list  
user.email=marcus.amerine30@gmail.com  
user.name=Marcus  
credential.helper=store  
core.repositoryformatversion=0  
core.filenode=true  
core.bare=false  
core.logallrefupdates=true  
remote.origin.url=https://mamerine2@github.com/mamerine2/cpsc-222.git  
remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*  
branch.main.remote=origin  
branch.main.merge=refs/heads/main
```

## Git log — oneline

```
user@user-VirtualBox:~/cpsc222/cpsc-222/python-api$ git log --oneline -5  
git status  
2fbce15 (HEAD -> main, origin/main, origin/HEAD) Add localhost:3000 HTTP API with users and groups  
35082f8 Remove test file  
267c33f Test push confirmation  
6e5c355 Create snmpd.conf  
353f3cf Create sudo_count.pl  
On branch main  
Your branch is up to date with 'origin/main'.  
nothing to commit, working tree clean
```