


Trello Board

<https://trello.com/invite/b/69679a5fbc62dd1ad6ea687b/ATTI197f261aaabfbd0537a4f391882613e709A3DD80/ironhack-bootcamp-grp2>

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Scripting

<https://trello.com/c/8wENpjHs/11-scripting>

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Scripting

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Description

Edit

1. As a user, I can write a tiny Bash script and run it. Tasks: create `hello.sh` with `#!/usr/bin/env bash` + `echo "hi"`; `chmod +x hello.sh`; `./hello.sh`. Done when: terminal shows `hi`.

2. As a user, I can write a Python "Hello + args" script. Tasks: `hello.py` prints `Hello, <name>!` from `sys.argv[1]`. Done when: `python3 hello.py Diogo` prints greeting.

3. As a user, I can parse JSON with `jq`. Tasks: `echo '{"a":1,"b":2}' | jq '.b'`. Done when: output is `2`. (Install `jq` if needed.)

Attachments

Add

Files

PDF

Scripting.pdf

Comments and activity

Hide details

Write a comment...

VG

Vijaya Bhaskar Gagla moved this card from Doing to Done

11 minutes ago

VG

Vijaya Bhaskar Gagla moved this card from To Do to Doing

11 minutes ago

VG

Vijaya Bhaskar Gagla deleted the Scripting_19.pdf attachment from this card

11 minutes ago

VG

Vijaya Bhaskar Gagla attached [Scripting.pdf](#) to this card

11 minutes ago

Reply

VG

Vijaya Bhaskar Gagla added this card to To Do

30 minutes ago

19 As a user, I can write a tiny Bash script and run it. Tasks: create `hello.sh` with `#!/usr/bin/env bash + echo "hi"; chmod +x hello.sh; ./hello.sh`. Done when: terminal shows `hi`.

```
vijayagagla@DESKTOP-FP40P26:~/sandbox$ chmod +x hello.sh
vijayagagla@DESKTOP-FP40P26:~/sandbox$ ./hello.sh
vijayagagla@DESKTOP-FP40P26:~/sandbox$ hello.sh
hello.sh: command not found
vijayagagla@DESKTOP-FP40P26:~/sandbox$ ./hello.sh
vijayagagla@DESKTOP-FP40P26:~/sandbox$ vim hello.sh
vijayagagla@DESKTOP-FP40P26:~/sandbox$ ./hello.sh
hi
vijayagagla@DESKTOP-FP40P26:~/sandbox$ |
```


20 As a user, I can write a Python “Hello + args” script. Tasks: `hello.py` prints `Hello, <name>!` from `sys.argv[1]`. Done when: `python3 hello.py Diogo` prints greeting.

```
vijayagagla@DESKTOP-FP40P26:~/sandbox$ python3 --version
Python 3.12.3
vijayagagla@DESKTOP-FP40P26:~/sandbox$ vim hello.py
vijayagagla@DESKTOP-FP40P26:~/sandbox$ python3 hello.py
Usage: python3 hello.py <name>
vijayagagla@DESKTOP-FP40P26:~/sandbox$ python3 hello.py Vijaya
Hello, Vijaya!
vijayagagla@DESKTOP-FP40P26:~/sandbox$
```

```
vijayagaglia@DESKTOP-FP4OF x + v
```

```
#!/usr/bin/env python3
import sys

if len(sys.argv) < 2:
    print("Usage: python3 hello.py <name>")
else:
    name = sys.argv[1]
    print(f"Hello, {name}!")
```

```
"hello.py" 8L, 159B      8,28      All
```

Linux Basics

<https://trello.com/c/VFduaIJE/26-linux-basics-vijaya>

Done ▾

Linux Basics -Vijaya

+ Add

🕒 Dates

📋 Checklist

📎 Attachment

Members

VG

+

Linux

+

🔑 Description

Edit

1. As a user, I can create and list files in a sandbox folder. Tasks: `mkdir ~/sandbox && cd ~/sandbox && touch a b c && ls -lah`. Done when: screenshot shows folder with 3 files.

2. As a user, I can move, copy, and delete files safely. Tasks: `cp a a.copy && mv b b.moved && rm c`. Done when: `ls` shows expected names.

3. As a user, I can view file contents with three tools. Tasks: `echo "hello" > note.txt`; then `cat`, `less`, `head -n 1`. Done when: you can show each command's output.

4. As a user, I can find files by name and by content. Tasks: `grep -R "hello"` and `find . -name "*.copy"`. Done when: commands return

🗨 Comments and activity

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Write a comment...

VG

Vasco Gama added Vijaya Bhaskar Gagla to this card

[14 minutes ago](#)

VG

Vijaya Bhaskar Gagla moved this card from Doing to Done

[37 minutes ago](#)

VG

Vijaya Bhaskar Gagla marked this card as complete

[37 minutes ago](#)

VG

Vijaya Bhaskar Gagla removed Checklist from this card

[38 minutes ago](#)

VG

Vijaya Bhaskar Gagla attached [Linux Basics.pdf](#) to this card

[38 minutes ago](#)

[Reply](#)

VG

Vijaya Bhaskar Gagla moved this card from To Do to Doing

[1 hour ago](#)

vijayagagla@DESKTOP-FP4OP26: ~/sandbox

```
vijayagagla@DESKTOP-FP4OP26:~/sandbox$ ls -la
total 8
-rwxr-xr-x  2 vijayagagla vijayagagla 4096 Jan 14 16:34 .
-rwxr-x--- 15 vijayagagla vijayagagla 4096 Jan 14 15:19 ..
-rw-r--r--  1 vijayagagla vijayagagla    0 Jan 14 14:43 a
-rw-r--r--  1 vijayagagla vijayagagla    0 Jan 14 14:43 b
-rw-r--r--  1 vijayagagla vijayagagla    0 Jan 14 14:43 c
vijayagagla@DESKTOP-FP4OP26:~/sandbox$ cp a a.copy && mv b b.moved && rm c
vijayagagla@DESKTOP-FP4OP26:~/sandbox$ ls -la
total 8
-rwxr-xr-x  2 vijayagagla vijayagagla 4096 Jan 14 16:36 .
-rwxr-x--- 15 vijayagagla vijayagagla 4096 Jan 14 15:19 ..
-rw-r--r--  1 vijayagagla vijayagagla    0 Jan 14 14:43 a
-rw-r--r--  1 vijayagagla vijayagagla    0 Jan 14 16:36 a.copy
-rw-r--r--  1 vijayagagla vijayagagla    0 Jan 14 14:43 b.moved
vijayagagla@DESKTOP-FP4OP26:~/sandbox$ echo "hello" > note.txt
vijayagagla@DESKTOP-FP4OP26:~/sandbox$ ls -la
total 12
-rwxr-xr-x  2 vijayagagla vijayagagla 4096 Jan 14 16:36 .
-rwxr-x--- 15 vijayagagla vijayagagla 4096 Jan 14 15:19 ..
-rw-r--r--  1 vijayagagla vijayagagla    0 Jan 14 14:43 a
-rw-r--r--  1 vijayagagla vijayagagla    0 Jan 14 16:36 a.copy
-rw-r--r--  1 vijayagagla vijayagagla    0 Jan 14 14:43 b.moved
-rw-r--r--  1 vijayagagla vijayagagla    6 Jan 14 16:36 note.txt
vijayagagla@DESKTOP-FP4OP26:~/sandbox$ cat note.txt
```

less note.txt

```
vijayagagla@DESKTOP-FP4OP26: ~/sandbox  
  
hello  
note.txt (END)
```

```
vijayagagla@DESKTOP-FP4OP26:~/sandbox$ echo "hello" > note.txt  
vijayagagla@DESKTOP-FP4OP26:~/sandbox$ ls -la  
total 12  
drwxr-xr-x  2 vijayagagla vijayagagla 4096 Jan 14 16:36 .  
drwxr-x--- 15 vijayagagla vijayagagla 4096 Jan 14 15:19 ..  
-rw-r--r--  1 vijayagagla vijayagagla    0 Jan 14 14:43 a  
-rw-r--r--  1 vijayagagla vijayagagla    0 Jan 14 16:36 a.copy  
-rw-r--r--  1 vijayagagla vijayagagla    0 Jan 14 14:43 b.moved  
-rw-r--r--  1 vijayagagla vijayagagla    6 Jan 14 16:36 note.txt  
vijayagagla@DESKTOP-FP4OP26:~/sandbox$ cat note.txt  
hello  
vijayagagla@DESKTOP-FP4OP26:~/sandbox$ less note.txt  
vijayagagla@DESKTOP-FP4OP26:~/sandbox$ less  
Missing filename ("less --help" for help)  
vijayagagla@DESKTOP-FP4OP26:~/sandbox$ less note.txt  
vijayagagla@DESKTOP-FP4OP26:~/sandbox$ head -n 1  
^X^C  
vijayagagla@DESKTOP-FP4OP26:~/sandbox$ head -n 1 note.txt  
hello
```


As a user, I can find files by name and by content. Tasks: `grep -R "hello" .` and `find . -name "*.copy"`. Done when: commands return at least one match

```
vijayagagla@DESKTOP-FP40P26:~/sandbox$ grep -R "hello" .  
./note.txt:hello  
vijayagagla@DESKTOP-FP40P26:~/sandbox$ find . -name "*.copy".  
vijayagagla@DESKTOP-FP40P26:~/sandbox$ find . -name "*.copy"  
./a.copy
```

As a user, I can compress and extract files. Tasks: `tar -czf data.tgz sandbox` and `tar -xzf data.tgz -C /tmp`. Done when: `/tmp/sandbox` exists.

```
vijayagagla@DESKTOP-FP40P26: ~  
home/vijayagagla/sandbox  
vijayagagla@DESKTOP-FP40P26:~/sandbox$ cd ..  
vijayagagla@DESKTOP-FP40P26:~$ tar -czf data.tgz sandbox  
vijayagagla@DESKTOP-FP40P26:~$ ls -la  
total 128  
rwxr-x--- 15 vijayagagla vijayagagla 4096 Jan 14 17:00 .  
rwxr-xr-x 6 root root 4096 Jan 13 16:53 ..  
rwxrwxrwx 1 vijayagagla vijayagagla 22 Dec 1 09:58 .aws -> /mnt/c/Users/User/.aws  
rwxrwxrwx 1 vijayagagla vijayagagla 24 Dec 1 09:58 .azure -> /mnt/c/Users/User/.azure  
rw-r----- 1 vijayagagla vijayagagla 7327 Jan 14 15:37 .bash_history  
rw-r--r-- 1 vijayagagla vijayagagla 220 Apr 12 2025 .bash_logout  
rw-r--r-- 1 vijayagagla vijayagagla 3771 Apr 12 2025 .bashrc  
rwx----- 2 vijayagagla vijayagagla 4096 Apr 12 2025 .cache  
rwx----- 3 vijayagagla vijayagagla 4096 Jan 14 10:26 .config  
rwxr-xr-x 4 vijayagagla vijayagagla 4096 Dec 1 09:58 .docker  
rwxr-xr-x 2 vijayagagla vijayagagla 4096 Dec 1 10:00 .kube  
rwxr-xr-x 2 vijayagagla vijayagagla 4096 Apr 12 2025 .landscape  
rw-r----- 1 vijayagagla vijayagagla 20 Jan 14 16:54 .lessht  
rwxr-xr-x 3 vijayagagla vijayagagla 4096 Jan 13 14:57 .local  
rw-r--r-- 1 vijayagagla vijayagagla 0 Jan 14 09:53 .motd_shown  
rw-r--r-- 1 vijayagagla vijayagagla 807 Apr 12 2025 .profile  
rwx----- 2 vijayagagla vijayagagla 4096 Jan 14 13:58 .ssh  
rw-r--r-- 1 vijayagagla vijayagagla 0 Apr 12 2025 .sudo_as_admin_successful  
rw-r----- 1 vijayagagla vijayagagla 3159 Jan 14 15:19 .viminfo  
rwxr-xr-x 6 vijayagagla vijayagagla 4096 Jan 13 14:37 Projects  
rwxr-xr-x 5 vijayagagla vijayagagla 4096 Jan 14 09:57 archive-practice  
rwxr-xr-x 2 vijayagagla vijayagagla 4096 Jan 14 11:03 bin  
rw-r--r-- 1 vijayagagla vijayagagla 227 Jan 14 17:00 data.tgz  
rwxr-xr-x 2 vijayagagla vijayagagla 4096 Jan 14 10:01 extracted-files  
rw-r--r-- 1 root root 22592 Apr 12 2025 get-docker.sh  
rwxr-xr-x 1 vijayagagla vijayagagla 96 Jan 14 11:02 greeting.sh  
rwxr-xr-x 2 vijayagagla vijayagagla 4096 Jan 14 16:36 sandbox  
rw-r----- 1 vijayagagla vijayagagla 419 Jan 14 12:27 vijayagagla  
rw-r--r-- 1 vijayagagla vijayagagla 109 Jan 14 12:27 vijayagagla.pub  
rwxr-xr-x 3 vijayagagla vijayagagla 4096 Jan 13 14:12 web-lab  
vijayagagla@DESKTOP-FP40P26:~$ ls -la data.tgz  
rw-r--r-- 1 vijayagagla vijayagagla 227 Jan 14 17:00 data.tgz  
vijayagagla@DESKTOP-FP40P26:~$ tar -xzf data.tgz -C /tmp  
vijayagagla@DESKTOP-FP40P26:~$ ls -la /tmp/sandbox  
total 12  
rwxr-xr-x 2 vijayagagla vijayagagla 4096 Jan 14 16:36 .  
rwxrwxrwt 12 root root 4096 Jan 14 17:02 ..  
rw-r--r-- 1 vijayagagla vijayagagla 0 Jan 14 14:43 a  
rw-r--r-- 1 vijayagagla vijayagagla 0 Jan 14 16:36 a.copy  
rw-r--r-- 1 vijayagagla vijayagagla 0 Jan 14 14:43 b.moved  
rw-r--r-- 1 vijayagagla vijayagagla 6 Jan 14 16:36 note.txt  
vijayagagla@DESKTOP-FP40P26:~$
```

As a user, I can check disk and memory quick stats. Tasks: `df -h`, `free -h` (or `vm_stat` on macOS + note conversion). Done when: paste outputs into `stats.txt`.

```
vijayagagla@DESKTOP-FP4OP26: ~  
vijayagagla@DESKTOP-FP4OP26:~$ df -h  
Filesystem      Size  Used Avail Use% Mounted on  
dev/sda1        5.8G   0  5.8G   0% /usr/lib/modules/5.15.167.4-microsoft-standard-WSL2  
tmpfs            5.8G  4.0K  5.8G   1% /mnt/wsl  
nvme0n1         954G  223G  731G  24% /usr/lib/wsl/drivers  
dev/sdc         1007G   2.4G  954G   1% /  
tmpfs            5.8G   80K  5.8G   1% /mnt/wslg  
tmpfs            5.8G   0  5.8G   0% /usr/lib/wsl/lib  
tmpfs            5.8G   2.4M  5.8G   1% /init  
tmpfs            5.8G  524K  5.8G   1% /run  
tmpfs            5.8G   0  5.8G   0% /run/lock  
tmpfs            5.8G   0  5.8G   0% /run/shm  
tmpfs            4.0M   0  4.0M   0% /sys/fs/cgroup  
tmpfs            5.8G   76K  5.8G   1% /mnt/wslg/versions.txt  
tmpfs            5.8G   76K  5.8G   1% /mnt/wslg/doc  
tmpfs            954G  223G  731G  24% /mnt/c  
tmpfs            1.2G   16K  1.2G   1% /run/user/1000  
vijayagagla@DESKTOP-FP4OP26:~$ free -h  
              total        used        free      shared  buff/cache   available  
Mem:           11Gi         692Mi       10Gi        3.2Mi        625Mi       10Gi  
Swap:          3.0Gi           0B        3.0Gi  
vijayagagla@DESKTOP-FP4OP26:~$ df -h > stats.txt  
vijayagagla@DESKTOP-FP4OP26:~$ free -h >> stats.txt  
vijayagagla@DESKTOP-FP4OP26:~$ cat stats.txt  
Filesystem      Size  Used Avail Use% Mounted on  
dev/sda1        5.8G   0  5.8G   0% /usr/lib/modules/5.15.167.4-microsoft-standard-WSL2  
tmpfs            5.8G  4.0K  5.8G   1% /mnt/wsl  
nvme0n1         954G  223G  731G  24% /usr/lib/wsl/drivers  
dev/sdc         1007G   2.4G  954G   1% /  
tmpfs            5.8G   80K  5.8G   1% /mnt/wslg  
tmpfs            5.8G   0  5.8G   0% /usr/lib/wsl/lib  
tmpfs            5.8G   2.4M  5.8G   1% /init  
tmpfs            5.8G  524K  5.8G   1% /run  
tmpfs            5.8G   0  5.8G   0% /run/lock  
tmpfs            5.8G   0  5.8G   0% /run/shm  
tmpfs            4.0M   0  4.0M   0% /sys/fs/cgroup  
tmpfs            5.8G   76K  5.8G   1% /mnt/wslg/versions.txt  
tmpfs            5.8G   76K  5.8G   1% /mnt/wslg/doc  
tmpfs            954G  223G  731G  24% /mnt/c  
tmpfs            1.2G   16K  1.2G   1% /run/user/1000  
              total        used        free      shared  buff/cache   available  
Mem:           11Gi         692Mi       10Gi        3.2Mi        626Mi       10Gi  
Swap:          3.0Gi           0B        3.0Gi  
vijayagagla@DESKTOP-FP4OP26:~$
```

As a user, I can get and set file permissions. Tasks: create `secret.txt`; run `chmod 600 secret.txt`; explain `rw-`. Done when: `ls -l secret.txt` matches `-rw-----`.

```
vijayagagla@DESKTOP-FP4OP26: ~  
vijayagagla@DESKTOP-FP4OP26:~$ echo > secret.txt  
vijayagagla@DESKTOP-FP4OP26:~$ ls -ls  
total 72  
4 drwxr-xr-x 6 vijayagagla vijayagagla 4096 Jan 13 14:37 Projects  
4 drwxr-xr-x 5 vijayagagla vijayagagla 4096 Jan 14 09:57 archive-practice  
4 drwxr-xr-x 2 vijayagagla vijayagagla 4096 Jan 14 11:03 bin  
4 -rw-r--r-- 1 vijayagagla vijayagagla 227 Jan 14 17:00 data.tgz  
4 drwxr-xr-x 2 vijayagagla vijayagagla 4096 Jan 14 10:01 extracted-files  
24 -rw-r--r-- 1 root root 22592 Apr 12 2025 get-docker.sh  
4 -rwxr-xr-x 1 vijayagagla vijayagagla 96 Jan 14 11:02 greeting.sh  
4 drwxr-xr-x 2 vijayagagla vijayagagla 4096 Jan 14 16:36 sandbox  
4 -rw-r--r-- 1 vijayagagla vijayagagla 1 Jan 14 17:08 secret.txt  
4 -rw-r--r-- 1 vijayagagla vijayagagla 1041 Jan 14 17:07 stats.txt  
4 -rw----- 1 vijayagagla vijayagagla 419 Jan 14 12:27 vijayagagla  
4 -rw-r--r-- 1 vijayagagla vijayagagla 109 Jan 14 12:27 vijayagagla.pub  
4 drwxr-xr-x 3 vijayagagla vijayagagla 4096 Jan 13 14:12 web-lab  
vijayagagla@DESKTOP-FP4OP26:~$ chmod 600 secret.txt  
vijayagagla@DESKTOP-FP4OP26:~$ ls -l secret.txt  
-rw----- 1 vijayagagla vijayagagla 1 Jan 14 17:08 secret.txt  
vijayagagla@DESKTOP-FP4OP26:~$
```

As a user, I can see who I am and which groups I'm in. Tasks: `id`, `whoami`, `groups`. Done when: outputs recorded in `whoami.txt`.

```
vijayagagla@DESKTOP-FP4OP26: ~  
vijayagagla@DESKTOP-FP4OP26:~$ id > whoami.txt  
vijayagagla@DESKTOP-FP4OP26:~$ whoami >> whoami.txt  
vijayagagla@DESKTOP-FP4OP26:~$ groups >> whoami.txt  
vijayagagla@DESKTOP-FP4OP26:~$ cat whoami.txt  
uid=1000(vijayagagla) gid=1000(vijayagagla) groups=1000(vijayagagla),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),100(u  
sers),989(docker)  
vijayagagla  
vijayagagla adm cdrom sudo dip plugdev users docker  
vijayagagla@DESKTOP-FP4OP26:~$
```

Processes & Scheduling

<https://trello.com/c/3jq0SD8k/27-processes-scheduling-vijaya>

The screenshot shows a Trello card titled "Processes & Scheduling -Vijaya". The card is in the "Done" column. It has a description with three tasks, attachments, and a comments section.

Description:

1. As a user, I can list and filter running processes. Tasks: `ps aux | grep $USER`, `top -b -n1 > top.txt`. Done when: `top.txt` exists.
2. As a user, I can create a background task and stop it. Tasks: `sleep 120 &`, `jobs`, `kill %1`. Done when: `jobs` shows no running job.
3. As a user, I can schedule a one-line cron job I can safely observe. Tasks: `crontab -e` → `*/*5 * * * * date >> ~/cron-heartbeat.log`. Done when: log has ≥2 new lines after 10-12 minutes. (Optional: remove later.)

Attachments:

- Processes & Scheduling.pdf (Added 18 minutes ago)

Comments and activity:

- Vijaya Bhaskar Gagla moved this card from In progress to Done (17 minutes ago)
- Vijaya Bhaskar Gagla attached Processes & Scheduling.pdf to this card (18 minutes ago)
- Vijaya Bhaskar Gagla moved this card from To Do to Doing (1 hour ago)
- Vijaya Bhaskar Gagla added this card to To Do (1 hour ago)

As a user, I can list and filter running processes. Tasks: `ps aux | grep $USER`, `top -b -n1 > top.txt`. Done when: `top.txt` exists

```
vijayagagla@DESKTOP-FP40P26: ~  
vijayagagla@DESKTOP-FP40P26:~$ ps aux | grep $USER  
vijayag+ 2364 0.0 0.0 4092 1896 pts/0 S+ 17:21 0:00 grep --color=auto vijayagagla  
vijayagagla@DESKTOP-FP40P26:~$ top -b -n1 > top.txt  
vijayagagla@DESKTOP-FP40P26:~$ ls -la top.txt  
-rw-r--r-- 1 vijayagagla vijayagagla 2583 Jan 14 17:21 top.txt  
vijayagagla@DESKTOP-FP40P26:~$
```

As a user, I can create a background task and stop it. Tasks: `sleep 120 &`, `jobs`, `kill %1`. Done when: `jobs` shows no running job.

```
vijayagagla@DESKTOP-FP40P26: ~  
vijayagagla@DESKTOP-FP40P26:~$ sleep 120 &  
[1] 2424  
vijayagagla@DESKTOP-FP40P26:~$ jobs  
[1]+  Running                  sleep 120 &  
vijayagagla@DESKTOP-FP40P26:~$ kill %1  
vijayagagla@DESKTOP-FP40P26:~$ jobs  
[1]+  Terminated              sleep 120  
vijayagagla@DESKTOP-FP40P26:~$
```

As a user, I can schedule a one-line cron job I can safely observe. Tasks: `crontab -e` → `*/5 * * * * date >> ~/cron-heartbeat.log`. Done when: log has ≥ 2 new lines after 10–12 minutes.

```
vijayagagla@DESKTOP-FP40P26:~$ cat cron-heartbeat.log  
Wed Jan 14 17:35:01 CET 2026  
Wed Jan 14 17:40:00 CET 2026  
Wed Jan 14 17:45:01 CET 2026  
Wed Jan 14 17:50:01 CET 2026
```

Networking

<https://trello.com/c/9K6KVALm/28-networking-vijaya>

The screenshot shows a Trello card interface. At the top, there's a 'Done' dropdown and icons for notifications, attachments, and a close button. The card title is 'Networking -Vijaya'. Below the title are buttons for '+ Add', 'Labels', 'Dates', 'Checklist', and 'Members'. The 'Description' section contains three tasks:

1. As a user, I can inspect my current IP and routes. Tasks: `ip a` (or `ifconfig`), `ip route`. Done when: save to `net.txt`.
2. As a user, I can test HTTP with curl in three ways. Tasks: `curl -I https://example.com`, `curl -s https://example.com > /tmp/e.html`, `curl -w "%{time_total}\n" -o /dev/null -s https://example.com`. Done when: show headers, file saved, timing value captured.
3. As a user, I can resolve DNS for two domains. Tasks: `dig +short ironhack.com`, `nslookup example.org`. Done when: IPs recorded in `dns.txt`

Below the description is an 'Attachments' section with an 'Add' button. The 'Comments and activity' section on the right shows four comments by 'Vijaya Bhaskar Gagla' (VG):

- Vijaya Bhaskar Gagla moved this card from In progress to Done (5 minutes ago)
- Vijaya Bhaskar Gagla attached [Networking.pdf](#) to this card (5 minutes ago)
- Vijaya Bhaskar Gagla moved this card from Backlog to Doing (23 minutes ago)
- Vijaya Bhaskar Gagla added this card to To Do (23 minutes ago)

As a user, I can inspect my current IP and routes. Tasks: `ip a` (or `ifconfig`), `ip route`. Done when: save to `net.txt`.

```

ijayagagla@DESKTOP-FP40P26:~$ ip a
: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet 10.255.255.254/32 brd 10.255.255.254 scope global lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1492 qdisc mq state UP group default qlen 1000
    link/ether 00:15:5d:99:3c:50 brd ff:ff:ff:ff:ff:ff
    inet 172.22.209.161/20 brd 172.22.223.255 scope global eth0
        valid_lft forever preferred_lft forever
    inet6 fe80::215:5dff:fe99:3c50/64 scope link
        valid_lft forever preferred_lft forever
: docker0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN group default
    link/ether 32:41:3a:21:5e:25 brd ff:ff:ff:ff:ff:ff
    inet 172.17.0.1/16 brd 172.17.255.255 scope global docker0
        valid_lft forever preferred_lft forever
ijayagagla@DESKTOP-FP40P26:~$ ip route
default via 172.22.208.1 dev eth0 proto kernel
172.17.0.0/16 dev docker0 proto kernel scope link src 172.17.0.1 linkdown
172.22.208.0/20 dev eth0 proto kernel scope link src 172.22.209.161
ijayagagla@DESKTOP-FP40P26:~$ ip a > net.txt
ijayagagla@DESKTOP-FP40P26:~$ ip route >> nett.txt
ijayagagla@DESKTOP-FP40P26:~$ cat net.txt
: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet 10.255.255.254/32 brd 10.255.255.254 scope global lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1492 qdisc mq state UP group default qlen 1000
    link/ether 00:15:5d:99:3c:50 brd ff:ff:ff:ff:ff:ff
    inet 172.22.209.161/20 brd 172.22.223.255 scope global eth0
        valid_lft forever preferred_lft forever
    inet6 fe80::215:5dff:fe99:3c50/64 scope link
        valid_lft forever preferred_lft forever
: docker0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN group default
    link/ether 32:41:3a:21:5e:25 brd ff:ff:ff:ff:ff:ff
    inet 172.17.0.1/16 brd 172.17.255.255 scope global docker0
        valid_lft forever preferred_lft forever
ijayagagla@DESKTOP-FP40P26:~$ █

```

As a user, I can test HTTP with curl in three ways. Tasks: `curl -I`

`https://example.com, curl -s https://example.com > /tmp/e.html,`
`curl -w "%{time_total}\n" -o /dev/null -s https://example.com.`

Done when: show headers, file saved, timing value captured.

```
vijayagagla@DESKTOP-FP4OP26: ~  
vijayagagla@DESKTOP-FP4OP26:~$ curl -I https://example.com  
HTTP/2 200  
date: Wed, 14 Jan 2026 16:37:24 GMT  
content-type: text/html  
cf-ray: 9bde8ec928e662ec-HAM  
last-modified: Tue, 13 Jan 2026 19:10:53 GMT  
allow: GET, HEAD  
accept-ranges: bytes  
age: 5104  
cf-cache-status: HIT  
server: cloudflare  
  
vijayagagla@DESKTOP-FP4OP26:~$ curl -s https://example.com > /tmp/e.html  
vijayagagla@DESKTOP-FP4OP26:~$ curl -w "%{time_total}\n" -o /dev/null -s https://example.com  
0.093973  
vijayagagla@DESKTOP-FP4OP26:~$ cat /tmp/e.html  
<!doctype html><html lang="en"><head><title>Example Domain</title><meta name="viewport" content="width=device-width, ini  
tial-scale=1"><style>body{background:#eee;width:60vw;margin:15vh auto;font-family:system-ui,sans-serif}h1{font-size:1.5e  
m}div{opacity:0.8}a:link,a:visited{color:#348}</style><body><div><h1>Example Domain</h1><p>This domain is for use in doc  
umentation examples without needing permission. Avoid use in operations.<p><a href="https://iana.org/domains/example">Le  
arn more</a></div></body></html>  
vijayagagla@DESKTOP-FP4OP26:~$
```

As a user, I can resolve DNS for two domains. Tasks: `dig +short`
`ironhack.com`, `nslookup example.org`. Done when: IPs recorded in `dns.txt`.


```
vijayagagla@DESKTOP-FP40P26:~$ dig +short ironhack.com >> dns.txt
nslookup example.org >> dns.txt
vijayagagla@DESKTOP-FP40P26:~$ cat dns.txt
172.67.157.38
104.21.40.221
Server:          10.255.255.254
Address:         10.255.255.254#53

Non-authoritative answer:
Name:   example.org
Address: 104.18.2.24
Name:   example.org
Address: 104.18.3.24
Name:   example.org
Address: 2606:4700::6812:218
Name:   example.org
Address: 2606:4700::6812:318
```