

# Homework N° 02 – HTTP

---

## Testing Info

- Test file (Local server didn't support range requests)

```
https://images.wallpaperscraft.com/image/single/river_grass_evening_92669_1920x1080.jpg
```

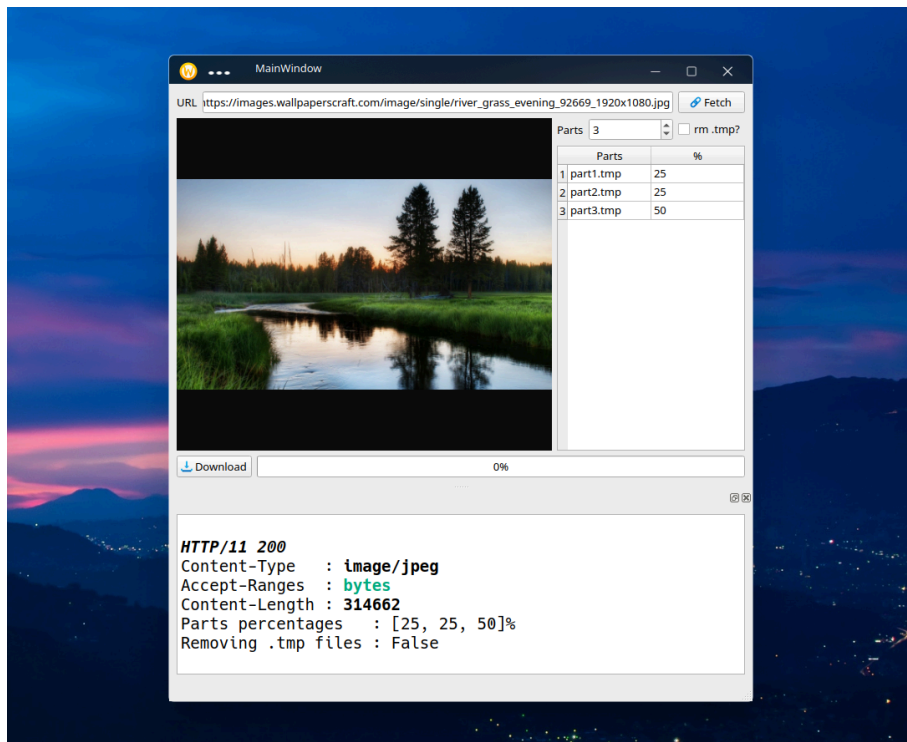
- Downloaded parts are in `./tmp_files`
- Requirements (`pip3 install -r requirements.txt`)

```
PyQt5==5.15.10
PyQt5_sip==12.13.0
Requests==2.31.0
```

## Screenshots

### Fetching

- We send a `HEAD` request to discover server file response Headers, and if the server `Accept-Ranges` in the first place.



### Downloading

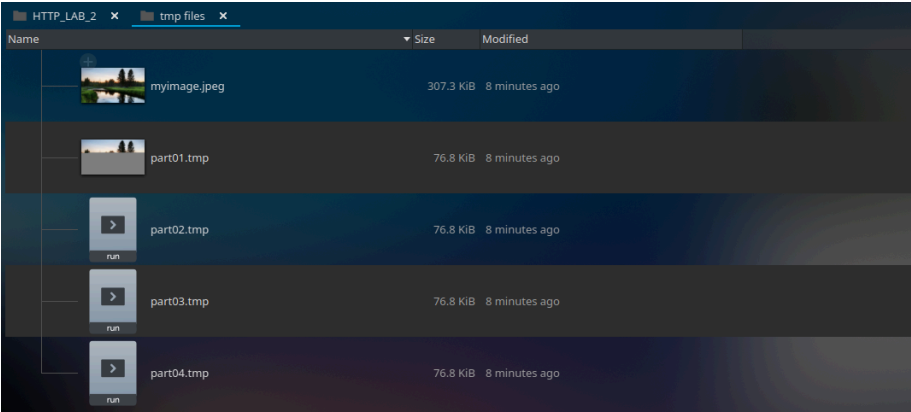
- After splitting `Content-Length` into parts percentages, we set `Range` s in Header to their corresponding `bytes` then we send a `GET` request

GET /image.jpg  
Range: {start\_byte}-{end\_byte}

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Flow ID	Source	Dest	Sent_packets	Recv_packets	PDR_%	Recv_rate	Recv_bytes	Delay	Throughput_Kbps	Protocol	Num_Of_Nodes	Mob_Speed	Num_Of_Sinks	Trans_Power	Set_Run	Set_Seed
2	110.11.17	10.11.17		259	95	36.6785	69.92	6740+8.43406e+09ns		0.702707 OLSR		20	25	10	7.5	8	3
3	210.11.19	10.11.19		288	102	35.4167	75.072	9384+8.47495e+09ns		0.760216 OLSR		20	25	10	7.5	8	3
4	310.11.13	10.11.13		375	300	80	220.8	27600+5.44643e+09ns		2.2303 OLSR		20	25	10	7.5	8	3
5	410.11.20	10.11.10		280	27	9.64286	19.872	2484+5.33547e+09ns		0.315424 OLSR		20	25	10	7.5	8	3
6	510.11.16	10.11.6		193	79	40.9326	58.144	7268+8.39547e+07ns		0.810386 OLSR		20	25	10	7.5	8	3
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	

.tmp files

- 76.8 KB \* 4 = 307.3 KB



Input handling

