

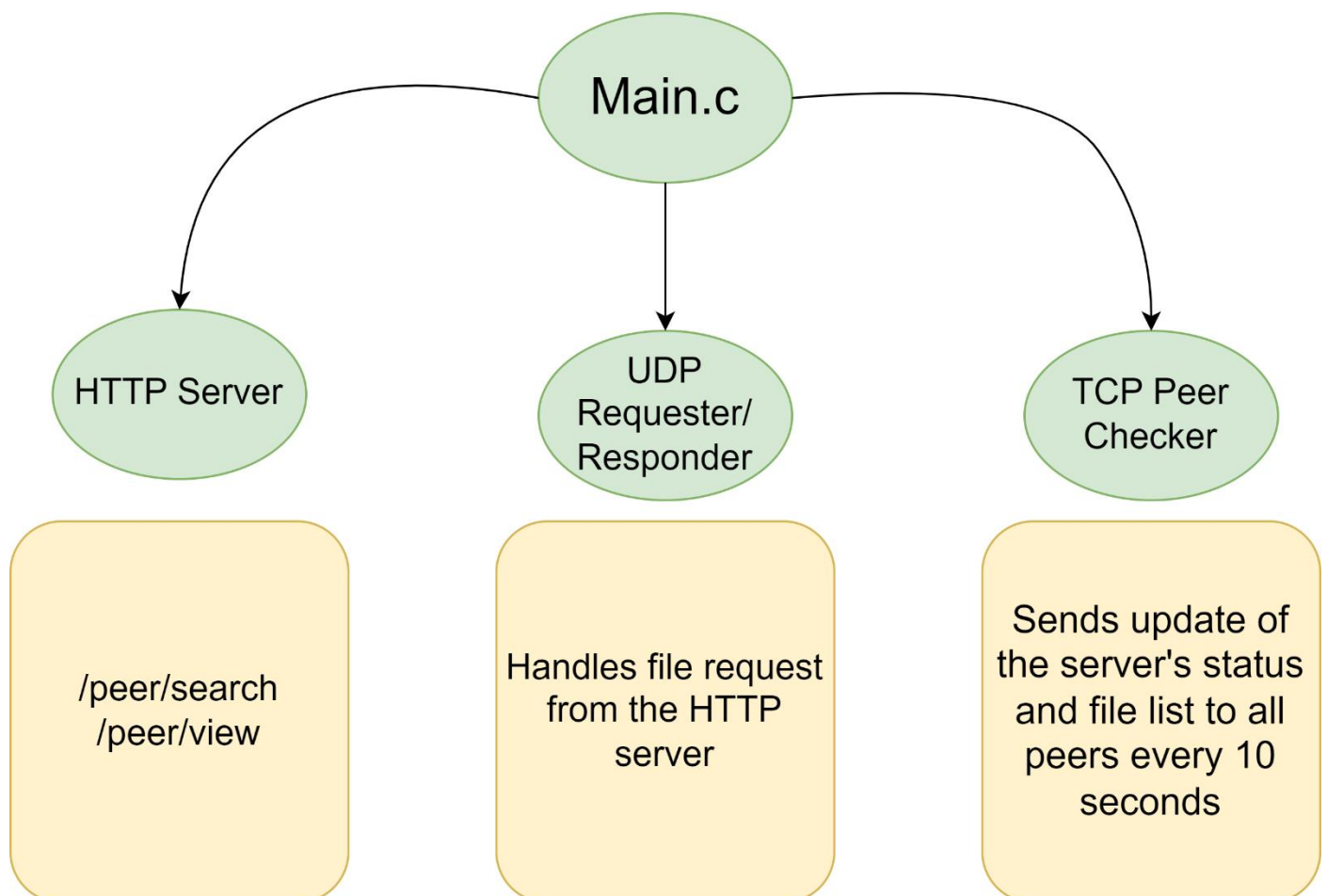
Source Code:

<https://github.com/hjameskan/hw-ee565/tree/main/hw4>

Instructions:

Run Command:

```
make clean && make && ./vodserver $(port1) $(port2)
```

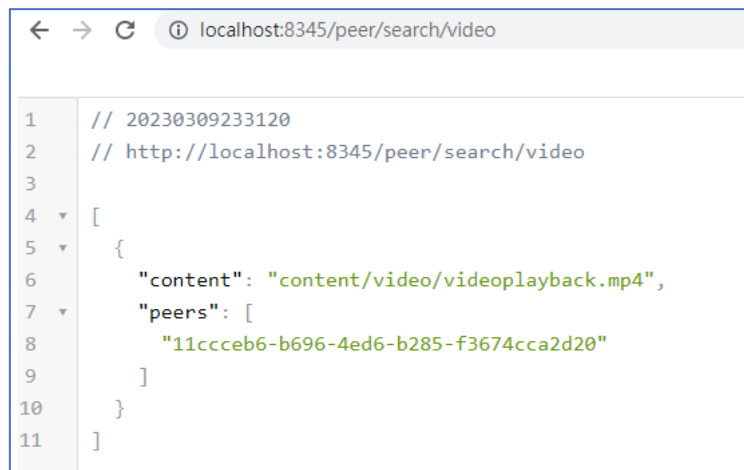
Architecture Diagram:**TCP Peer Checker:**

The Peer Checker is a TCP service that connects with all peers every 10 seconds and sends its own network map to all other peers.

Upon receiving the network update, each server records the time of connection. The filter set determines which server is considered "alive," and this server can be included in the response. By default, the code displays all records for each peer.

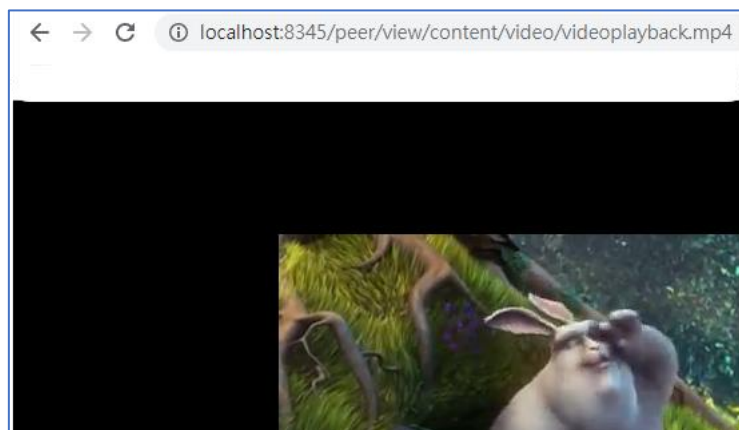
HTTP Server:

`/peer/search/<search path>`: This path allows for the display of all files within a specified subdirectory (e.g., images, videos, etc.) and presents all available content for viewing.



```
1 // 20230309233120
2 // http://localhost:8345/peer/search/video
3
4 [
5   {
6     "content": "content/video/videoplayback.mp4",
7     "peers": [
8       "11ccceb6-b696-4ed6-b285-f3674cca2d20"
9     ]
10  }
11 ]
```

`/peer/view/<content path>`: This path allows for the display of the specific file content that is requested based on the content path given in the `peer_search` method.



Docker:

Initial Image build: `sh docker-init.sh`

Start HTTP server: `docker-compose up`