

# Computer Networks: Final Project

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## Test Runs:

### - Operations Input File

```
POST test2.txt 127.0.0.1 80
GET photo1.png 127.0.0.1
POST test2.txt 127.0.0.1
POST photo2.png 127.0.0.1 80
GET test1.html 127.0.0.1 80
GET nonExistent.png 127.0.0.1
GET photo1.png 127.0.0.1 80
POST nonExistent.html 127.0.0.1 80
```

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### - Client Terminal

```
OPERATION: POST test2.txt 127.0.0.1 80
Not found in cache. Connecting to server....
Connected to server.
Request is sent.
HTTP/1.1 200 OK
```

```
OPERATION: GET photo1.png 127.0.0.1
Not found in cache. Connecting to server....
Connected to server.
Request is sent.
HTTP/1.1 200 OK
```

PNG received. Displaying...

```
OPERATION: POST test2.txt 127.0.0.1
Found in Cache!
HTTP/1.1 200 OK
```

```
OPERATION: POST photo2.png 127.0.0.1 80
Not found in cache. Connecting to server....
Connected to server.
Request is sent.
HTTP/1.1 200 OK
```

OPERATION: GET test1.html 127.0.0.1 80  
Not found in cache. Connecting to server...  
Connected to server.  
Request is sent.  
HTTP/1.1 200 OK

Networks Project.  
Testing HTML file.

OPERATION: GET nonExistent.png 127.0.0.1  
Not found in cache. Connecting to server...  
Connected to server.  
Request is sent.  
HTTP/1.1 404 Not Found

OPERATION: GET photo1.png 127.0.0.1 80  
Found in Cache!  
HTTP/1.1 200 OK

OPERATION: POST nonExistent.html 127.0.0.1 80  
File you're trying to access does not exist!  
Invalid Request...Will not be connected to server!

Process finished with exit code 0

## - Server Terminal

Server is up. Waiting to connect...

Connected to ('127.0.0.1', 51737).  
POST /test2.txt HTTP/1.1  
Host:127.0.0.1:80

Networks Project.  
Testing TXT file.

Response is sent.  
Connection is closed due to inactivity.

Connected to ('127.0.0.1', 51738).  
GET /photo1.png HTTP/1.1  
Host:127.0.0.1:80  
Response is sent.  
Connection is closed due to inactivity.














Connected to ('127.0.0.1', 51739).  
POST /photo2.png HTTP/1.1  
Host:127.0.0.1:80

PNG received. Displaying....  
Response is sent.  
Connection is closed due to inactivity.

Connected to ('127.0.0.1', 51740).  
GET /test1.html HTTP/1.1  
Host:127.0.0.1:80  
Response is sent.  
Connection is closed due to inactivity.

Connected to ('127.0.0.1', 51741).  
GET /nonExistent.png HTTP/1.1  
Host:127.0.0.1:80  
Response is sent.  
Connection is closed due to inactivity.

## - Project Directory After Running:

|   |                    |                       |        |
|---|--------------------|-----------------------|--------|
|  .idea                 | 5/15/2022 11:15 PM | File folder           |        |
|  venv                  | 5/9/2022 11:52 PM  | File folder           |        |
|  client.py             | 5/15/2022 10:51 PM | JetBrains PyCharm     | 6 KB   |
|  server.py             | 5/15/2022 10:12 PM | JetBrains PyCharm     | 4 KB   |
|  clienttest1.html      | 5/15/2022 10:51 PM | Microsoft Edge HTM... | 1 KB   |
|  test1.html            | 5/15/2022 10:29 PM | Microsoft Edge HTM... | 1 KB   |
|  clientphoto1.png      | 5/15/2022 10:51 PM | PNG File              | 784 KB |
|  photo1.png            | 3/14/2021 2:36 AM  | PNG File              | 784 KB |
|  photo2.png            | 7/23/2020 8:59 PM  | PNG File              | 250 KB |
|  serverphoto2.png      | 5/15/2022 10:51 PM | PNG File              | 250 KB |
|  client-operations.txt | 5/15/2022 10:49 PM | Text Document         | 1 KB   |
|  servertest2.txt       | 5/15/2022 10:51 PM | Text Document         | 1 KB   |
|  test2.txt             | 5/15/2022 10:29 PM | Text Document         | 1 KB   |

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