DISTRIBUTED SYSTEMS

Web Server - Demo SCREENSHOTS

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This document contains the screenshots of the assignment depicting the different scenarios:-

1. HTTP version v1.1 - HTTP/1.1

```
| httpRequest.java x | package com.webServer.santaClaraUniversity;
| a package com.yebserver.santaClaraUniversity;
| a package
```

The above snippet is the declaration of the different variables used in the code. I have declared them as static and final because the values in these variables need not be changed, they just need to be used to build response from the server.

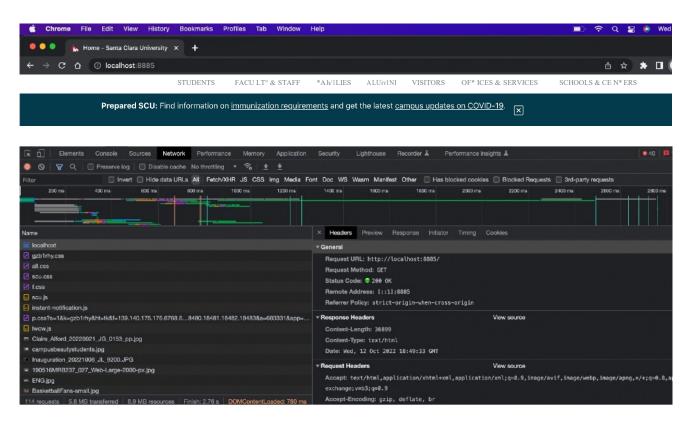
I have also declared the header details above; the type of content which the server is sending back to the client.

- 2. Documenting the different HTTP Status Codes below
 - i) 200 OK:

200 - OK is the HTTP Status Code for a successful request. When the server is able to fetch the desired file it sends a response to the client along with this HTTP Status Code stating that the file was fetched successfully.

Displaying 3 screenshots for the same below -

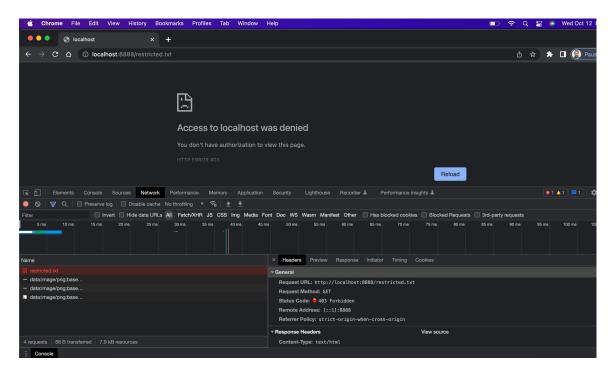




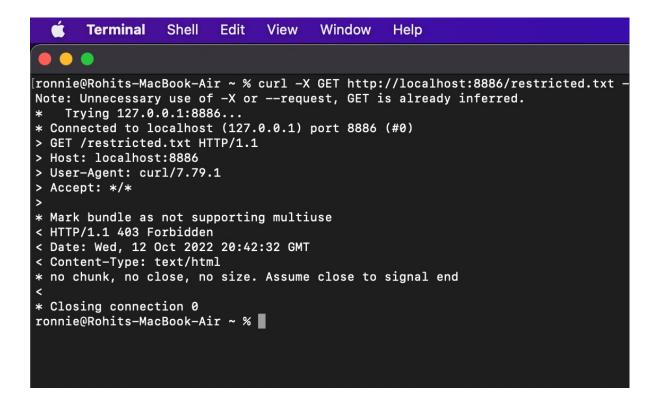
```
Terminal
                  Shell
                         Edit
                                View
                                        Window
                                                  Help
                                                                                             oronnie — -zsh — 204×55
 ronnie@Rohits-MacBook-Air ~ % curl -X GET http://localhost:8886/index.html -v
Note: Unnecessary use of -X or --request, GET is already inferred.
    Trying 127.0.0.1:8886..
* Connected to localhost (127.0.0.1) port 8886 (#0)
> GET /index.html HTTP/1.1
> Host: localhost:8886
> User-Agent: curl/7.79.1
> Accept: */*
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Wed, 12 Oct 2022 20:35:01 GMT
< Content-Type: text/html
< Content-Length: 36899
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Home - Santa Clara University</title>
  <meta name="description" content="Santa Clara University - The Jesuit University in Silicon Valley">
        <meta name="keywords" content="Santa Clara, University, Jesuit, School">
        <meta name="author" content="Santa Clara University">
        <meta name="generator" content="T4 Site Core Full">
  <link rel="apple-touch-icon" sizes="57x57" href="/assets/images/favicons/apple-touch-icon-57x57.png">
  <link rel="apple-touch-icon" sizes="60x60" href="/assets/images/favicons/apple-touch-icon-60x60.png">
  <link rel="apple-touch-icon" sizes="72x72" href="/assets/images/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/assets/images/favicons/apple-touch-icon-76x76.png">
  < rel="apple-touch-icon" sizes="114x114" href="/assets/images/favicons/apple-touch-icon-114x114.png">
  <link rel="apple-touch-icon" sizes="120x120" href="/assets/images/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/assets/images/favicons/apple-touch-icon-144x144.png">
  k rel="apple-touch-icon" sizes="180x180" href="/assets/images/favicons/apple-touch-icon-180x180.png">
  <link rel="icon" type="image/png" href="/assets/images/favicons/favicon-32x32.png" sizes="32x32">
  <link rel="icon" type="image/png" href="/assets/images/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/assets/images/favicons/favicon-16x16.png" sizes="16x16">
  <link rel="manifest" href="/assets/images/favicons/manifest.json">
  k rel="mask-icon" href="/assets/images/favicons/safari-pinned-tab.svg" color="#5bbad5">
  <meta name="msapplication-TileColor" content="#da532c">
  <meta name="msapplication-TileImage" content="/assets/images/favicons/mstile-144x144.png">
  <meta name="theme-color" content="#ffffff">
  <meta name="pageID" content="1127"/>
        <link rel="canonical" href="https://www.scu.edu/">
  <!--[if lte IE 9]>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/html5shiv/3.7.3/html5shiv.min.js" async></script>
  <![endif]-->
```

ii) 403 - Restricted Access:

403 - Restricted Access is the HTTP Status Code for a request to a file that is not readable and hence is not accessible.

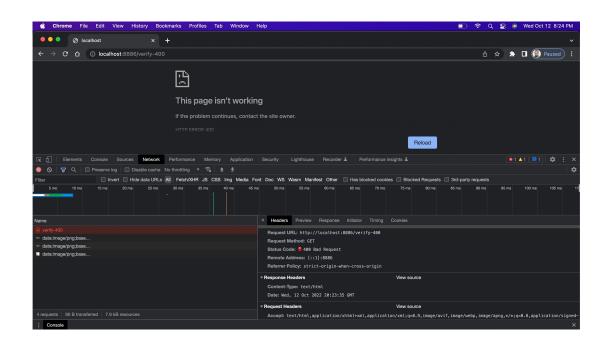


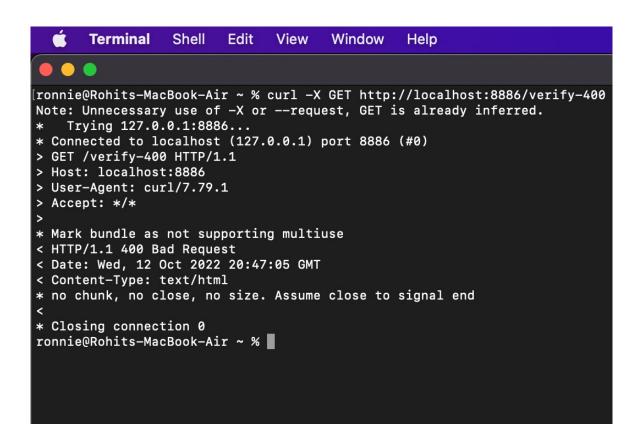
Displaying the command line output -



iii) 400 - Bad Request

400 - Bad Request is the HTTP Status Code for a request that is not formed properly.





iv) 405 - Method not allowed

405 - Method Not Allowed is the HTTP Status Code for a request that is not formed using a different HTTP method which is not supported by the Web Server.

```
[ronnie@Rohits-MacBook-Air ~ % curl -X POST http://localhost:8886/index.html -v
 * Trying 127.0.0.1:8886...
 * Connected to localhost (127.0.0.1) port 8886 (#0)
 > POST /index.html HTTP/1.1
 > Host: localhost:8886
 > User-Agent: curl/7.79.1
 > Accept: */*
 >
 * Mark bundle as not supporting multiuse
 < HTTP/1.1 405 Method Not Allowed
 < Date: Wed, 12 Oct 2022 20:33:09 GMT
 < Content-Type: text/html
 < Allow: GET
 * no chunk, no close, no size. Assume close to signal end
 <
 * Closing connection 0
 ronnie@Rohits-MacBook-Air ~ %</pre>
```