

National Institute of Technology Calicut
Department of Computer Science and Engineering
CS4042D WEB PROGRAMING
Assignment 2 - Web Server

Submission deadline (on or before):

15th October 2020, 10:00:00 PM

Submission format:

Should be submitted as a single zip file with name <Rollno>_<FirstName>_Assignment2.zip

Eg: B170217CS_ABIN_Assignment2.zip

There should be a README file inside the zip file which mentions the name of the starting file(which should be executed at the first for starting web server) and an optional description regarding the other requirements that should be set up in the system for setting the environment.

Policies for Submission and Evaluation

You must submit your assignment in the moodle (Eduserver) course page, on or before the submission deadline. During evaluation, your uploaded documents will be checked and will be asked doing a modification in a given span of time. There will be plagiarism checks for testing the genuinity of the submission. Any sort of direct copying from the internet or group copying among students will lead to award zero marks for the assignment. Besides this, the course instructor has the freedom to conduct individual evaluation either based on viva, or quiz on the submission. The total marks for the assignment is 15 marks. The marks awarded will be based on the uploaded documents and the evaluations

Assignment Question

Develop a simple HTTP server with the following specification using your preferred programming language. The web browser in your system will be acting as the client, who sends HTTP requests.

- The HTTP server should listen on port 4040.
- The HTTP server should be able to receive and process HTTP requests from multiple clients.
- It is assumed that at least 2 HTML pages are present in the local directory of http server.
- The HTTP server should be able to receive a request for a particular file (request using GET method) and should be able to create an HTTP response.
 - If the requested file is present in the local directory of HTTP server, then create the HTTP response consisting of the requested file along with appropriate response headers.
 - If the requested file is not present in the local directory of HTTP server, then the server should return appropriate 404 HTTP response
- If the web browser is requesting a file named “getmoved.html”, then the HTTP server should generate HTTP response with 301 status and should redirect the client to www.google.com.