National Institute of Technology Calicut
Department of Computer Science and Engineering
CS4042D WEB PROGRAMING
Assignment 1 - Creating Web Server

Submission deadline (on or before):

11th September 2023, 10:00:00 PM

Evaluation:

12th September 2023

Policies for Submission and Evaluation

You must submit your assignment in the moodle (Eduserver) course page, on or before the submission deadline. The team lead only should upload the zip file which contains all the supporting files/folders for the proper functioning of your assignment. The naming convention for the zip file is <TeamNumber>_assignment1.zip(eg:01_assignment1.zip).

During evaluation, 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 5 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 8080.

- The HTTP server should be able to receive and process HTTP requests from multiple clients.

- The local directory of http server should contain a file named "student.html" which contains the details of your group members.

- The HTTP server should be able to receive a request for a particular file (request using the GET method) and should be able to create an HTTP response.
  ○ If the requested file is present in the local directory of the 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 "home.html", then the HTTP server should generate HTTP response with 301 status and should redirect the client to www.google.com.