

Assignment No. 5

EECS 368

Programming Language Paradigms

Due: 11:59 PM, Monday, October 31, 2022

Submit deliverables in a single zip file to Canvas

Name of the zip file: FirstnameLastname\_Assignment5 (with your first and last name)

Name of the Assignment folder within the zip file: FirstnameLastname\_Assignment5

Deliverables:

1. Copy of Rubric5.docx with your name and ID filled out (do not submit a PDF)
2. JavaScript code for the HTTP server specified below.

How to submit the Assignment?

- Please review the student demo video at the link below. It will tell you how you can create, test, and submit your assignment. If you have any questions, please contact our SI, Soujanya Ambati at: [saisoujanyaambati@ku.edu](mailto:saisoujanyaambati@ku.edu).

<https://drive.google.com/drive/folders/1n1R5b3YihQcbCVyQwUjVBD1IMGMdEvBE>

Assignment:

- Using what you learned in Chapter 20 about Node.js, write the JavaScript code for an HTTP server that allows remote access to a file system.
- Use the HTTP methods GET, PUT, and DELETE to read, write, and delete files on the server, respectively.
- Then, add support for the MKCOL method (“make collection”), which should create a directory by calling mkdir from the fs module.
- MKCOL is not a widely used HTTP method, but it does exist for this same purpose in the WebDAV standard, which specifies a set of conventions on top of HTTP that make it suitable for creating documents.
- The server should include code to detect an invalid request and return a status code of 405 with the message "The method XXX is not supported.", where XXX is the invalid method requested.
- Feel free to use code you find on the Internet. Just be sure to include comments that adequately describe the code.
- Provide comments for the JavaScript code that explain what each line of code is doing. See rubric below.

Rubric for Program Comments		
Exceeds Expectations (90-100%)	Meets Expectations (80-89%)	Unsatisfactory (0-79%)
Software is adequately commented with prologue comments, comments summarizing major blocks of code, and comments on every line.	Prologue comments are present but missing some items or some major blocks of code are not commented or there are inadequate comments on each line.	Prologue comments are missing all together or there are no comments on major blocks of code or there are very few comments on each line.

Adequate Prologue Comments:

- Name of program contained in the file (e.g., EECS 368 Assignment 3)
- Brief description of the program, e.g.:
  - Simple tabbed interface using JavaScript and HTML
- Inputs (e.g., none, for a function, it would be the parameters passed to it)
- Output, e.g.,
  - Browser window with 3 tabs and text
- Author's full name
- Creation date: The date you first create the file, i.e., the date you write this comment

Adequate comments summarizing major blocks of code and comments on every line:

- Provide comments that explain what each line of code is doing.
- You may comment each line of code (e.g., using `//`) and/or provide a multi-line comment (e.g., using `/*` and `*/`) that explains what a group of lines does.
- Multi-line comments should be detailed enough that it is clear what each line of code is doing.

Remember:

- Your Programming Assignments are individual-effort.
- You can brainstorm with other students and help them work through problems in their programs, but everyone should have their own unique assignment programs.