

Lab2 - Express server

1- Provide REST API implementing CRUD operations on TODOs

- Use a filesystem, same as lab1.
- You must use middleware to validate inputs.
- You must return descriptive status codes in case of errors.
 - Examples
 - GET /todos
 - GET /todos/1
 - POST /todos
 - DELETE /todos/1
 - PATCH /todos/1

2- Provide a Static files server

- Download this [image](#) and serve it using express static.

Bonus:

- 1- Add status to todo with default value 'to-do'
- 2- Can change status to 'in progress' and 'done'
- 3- Can filter todos using queryparam /todos?status=

Notes:

- **Make sure to try the debugging environment**
- **Make sure that you enable restart on change using nodemon**
- **Make sure to split your logic into modules**
- Please make sure that you separate your logic in functions
- Make the names of your functions and variables are expressive of what they are
- Start by defining each functionality and the steps you should make to achieve it
- Please make sure not to pollute the global scope[refrain from using global variables]

- Before writing a function, ask yourself, is there a function in javascript that can do that, if not, write your own.

Tips:

- If you can't do something, search, then ask for help, this is not an exam.
- Please please please, don't copy someone else's code.

Useful Links:

- [npm | build amazing things](#)
- Nodejs [Docs](#)
- Fs module docs [fs](#) (you will need to use the sync version of the functions)[ends with the word Sync]
- HTTP module to make your http server
- Nodemon for restarting node
- [Headers - Web APIs](#)
- [Introduction to Node.js](#)

Please send the labs to either, please write your name and lab01 in the title of the email, also the name of the folder and I'll reply to each e-mail with the notes and comments.

OR email me the github link, make sure to ignore the node module folder

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Useful Readings:

- [Build an HTTP Server](#)
- [An introduction to the npm package manager](#)
- [The V8 JavaScript Engine](#)
- [How the Web works - Learn web development](#)

Must read before Day3:

- [Introduction to Mongoose for MongoDB](#)
- [REST API Best Practices – REST Endpoint Design Examples](#)
- [Authorization vs Authentication](#)
- [Hashing vs. Encryption vs. Encoding](#)
- [JWT](#)
- [ES6](#)