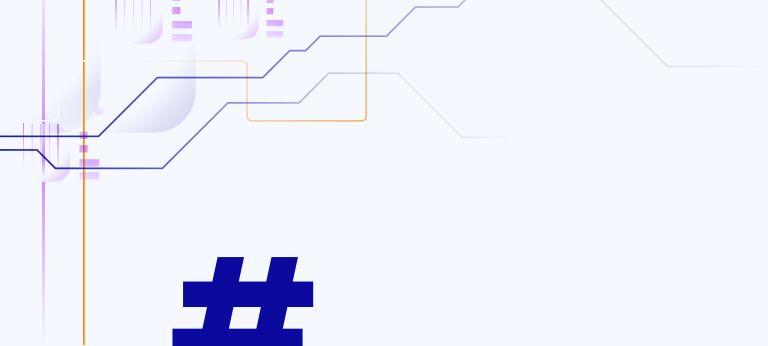




JDT Back End Workshop

Hack4Impact



#

Who We Are

Hack4Impact Backend Slack Channel



Our First Project

To-Do List

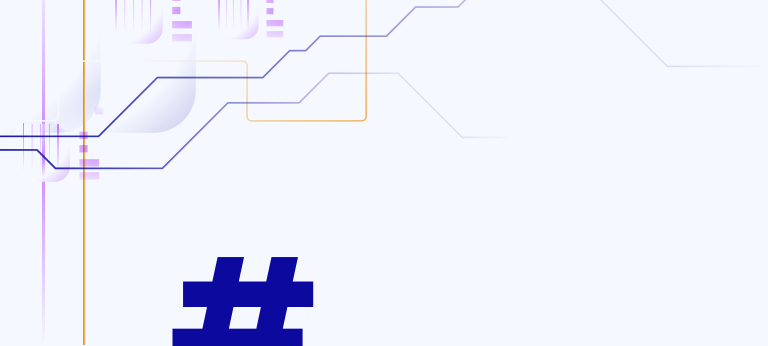


Task 1



Task 2





#

Basics

Node.js

- Platform built on Chrome's JavaScript runtime for easily building fast and scalable network applications
- Uses an event-driven, non-blocking I/O model that makes it lightweight and efficient
- Provides a rich library of various Javascript modules



MongoDB

- A database program
- Stores structured/unstructured data
- Uses a JSON-like format



Express

- Minimal and flexible Node.js web application framework
- Provides a wide range of features for web/mobile applications

The logo for Express.js, featuring the word "Express" in a thin, grey, sans-serif font, followed by a yellow square containing the letters "JS" in a bold, black, sans-serif font.

Express JS

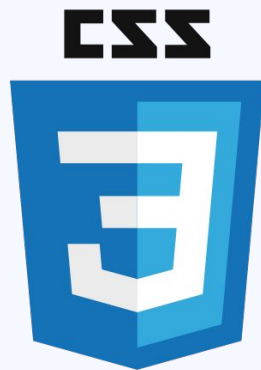
HTML

- Standard markup language for documents designed to be displayed in a web browser
- One of the most basic building blocks of every website



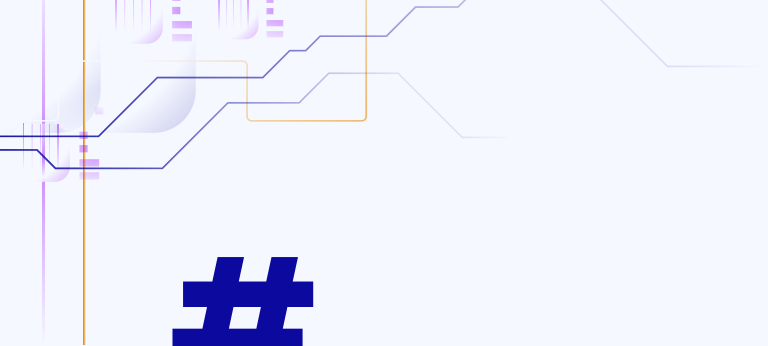
CSS

- Used to control the layout and the style of web pages
- Handles the “look and feel”



Embedded Javascript

- Simple templating language that is used to generate HTML markup with plain JavaScript
- Helps you to write code in Javascript which then compiles and convert the code for the browser to render properly



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Pre-requirements

What to Install

VS Code

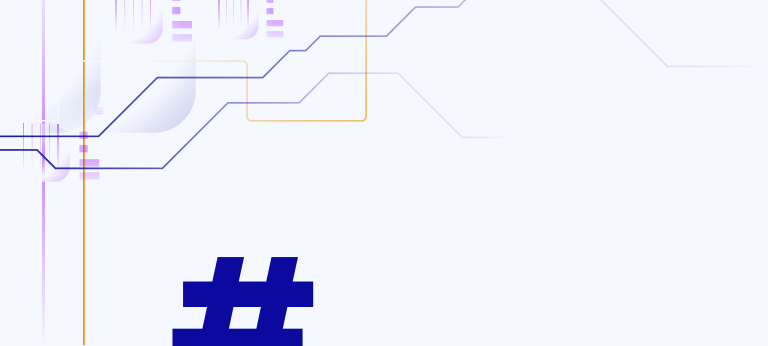


Node.js



MongoDB





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Getting Started

Installing Packages

1. Create a new folder and open it on VS Code
2. Open terminal and execute `npm init`
3. Install Express, mongoose, ejs, dotenv
 - a. `npm install --save express mongoose ejs dotenv`
4. Install nodemon
 - a. `npm install --save-dev nodemon`
5. Add the following code to start nodemon easily

```
{
  "name": "todo-app",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  ▶ Debug
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1",
    "start": "nodemon index.js"
  },
  "author": "",
  "license": "ISC"
}
```

Initializing the Server

In your index.js file:

```
const express = require("express");  
const app = express();  
app.listen(3000, () => console.log("Server Up and running"));
```


GET Method

In your index.js file:

```
app.get('/', (req, res) => {  
  res.send('Hello World!');  
});
```

Open <http://localhost:3000/> on your browser to check if it's working!

Embedded Javascript

In your index.js file:

```
app.set("view engine", "ejs");
```

Create new folder 'views' > create file 'todo.ejs'

Create new folder 'public' > 'stylesheets' > create file 'style.css'

```
app.use("/static", express.static("public"));
```

POST Method

Update GET method to todo.ejs

Add post method

```
app.use(express.urlencoded({ extended: true }));  
  
app.post('/', (req, res) => {  
  console.log(req.body);  
});
```