

MERN PART-TIME
ONLINE

- <Express>
- Express
- 📖

What is an API?

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- 📖

Postman

✔️
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Postman + Pokemon

✔️
- 📖

HTTP Verbs

✔️
- 📖

Express + Nodemon
- 📖

Routing
- 🖋️

Faker API
- 📖

Folder Structure

Learning Objectives:

- Learning how to start up our first Express Server

What is Express?

Express.js is a framework written in JavaScript which acts as an interface to Node's server functionality. It is also the **E** in the **MERN** stack, so it must be important! Express allows us to create a robust server with more or less whatever architecture we choose. There are many other server frameworks for Node including Hapi, Koa, and Fastify; however Express is extremely popular, as evidenced by its weekly download stats on npmjs.com.

Install

> npm i express

Weekly Downloads

5,594,683

Version	License
4.17.1	MIT
Unpacked Size	Total Files
208 kB	16
Issues	Pull Requests
118	66

Homepage

🔗 expressjs.com/

Repository

🔗 github.com/expressjs/express

Using Express

You can download the boilerplate code [HERE](#). Once the download is complete, open up your terminal and navigate to the project folder and run the command:

```
npm install
```

This will install all the dependencies of the project listed in the package.json file. In this case, the only dependency that will be installed is Express.

Creating our Server:

To start, we need to create a new project and create a new server.js file inside our newly created project folder **(if you downloaded the project, this is done for you already)**.

In our server.js file we need to import the express module using JavaScript's `require()` statement, and then invoke express.

HelloExpress/server.js



```
const express = require("express");
const app = express();
const port = 8000;
```

Now we have the ability to create our routes and send some data.

HelloExpress/server.js

```
const express = require("express");
const app = express();
const port = 8000;

// req is shorthand for request
// res is shorthand for response
app.get("/api", (req, res) => {
  res.json({ message: "Hello World" });
});
```

Note that the app instance has various HTTP verb methods that we can call. For example, by invoking `app.get`, we're saying we want to handle GET requests at this particular route (`/api`). The second argument passed to the `get` method is the callback function we want to run when a browser makes a request to this route.

Last but not least is the `app.listen()` line of code that actually runs our server on a specified port.

```
// this needs to be below the other code blocks
app.listen( port, () => console.log(`Listening on port: ${port}`) );
```

Run the server by opening your terminal, navigating to the directory housing your `server.js` file, and typing

```
node server.js
```

You can now visit `localhost:8000/api` in your browser to see the magic!

Nodemon

When we run the server using `node server.js` we will have to restart the server manually every time we update our code; otherwise, the running app will not reflect the changes. This is where Nodemon comes into play. We can run the following command to install Nodemon globally.

```
npm install -g nodemon
```

Note: If you're using a Mac (or Linux) You may need to use `sudo` in order to install it globally

```
sudo npm install -g nodemon
```

Instead of `node server.js` use `nodemon server.js` to run the server. This way, every change we save will automatically restart the server without us having to do anything.

Test this out by changing the string value in the `res.json({ message: "" })` method. Go ahead and give it a try.

