Localhost

Node and Express

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- Over 300 courses in technology and web applications.
- 20 years of JavaScript web programming experience
- 500,000+ students across multiple platforms
- Digital instructor since 2002

READY TO HELP YOU LEARN and ANSWER ANY questions you may have.

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Install Node

https://nodejs.org/en/download/

https://cygwin.com/install.html - for windows

Open terminal Windows

Press

Win + R on your keyboard. Hold down the Windows key on your keyboard, and press the "R" button. ...

Type cmd in the Run window. This shortcut will open the Command Prompt terminal.

Click OK in the Run window.

Open terminal Mac

The Terminal app is in the Utilities folder in Applications. To open it, either open your Applications folder, then open Utilities and double-click on Terminal, or press Command - spacebar to launch Spotlight and type "Terminal," then double-click the search result

```
node -v
npm -v

D:\>node
> console.log('hello')
.exit
D: - switch to D drive
cd
```

- 1. Install Nodejs
- 2. Open your terminal
- Check if node is installed node -v
- 4. Check is package manager is installed npm -v
- 5. Run node
- 6. type JavaScript
- 7. Use .exit to exit node

Open in Editor

Create a new directory to use for your project

Quick Command Line Commands

mkdir = makes directory *mkdir <folderName>* cd = change directory *cd <folder>/<folder>* cd.. = goes back one folder level

d: change drive <driveLetter>:

Is or dir = view contents of folder.

ren = renames ren <oldName> <newName>

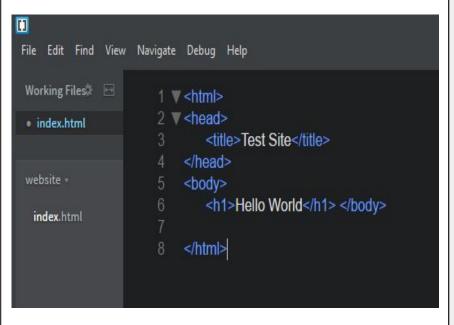
del = deletes folder del <folder>

cd. > <filename> or touch <filename> = create file notepad <filename> - open on windows in notepad mkdir website
cd website
cd. > index.html OR MAC touch index.html

- 1. Navigate to the folder you want to use
- 2. Create new directory for project
- Create blank index.html

Use Editor open file

I'm using http://brackets.io/ in the course, you can open the folder/project in any editor.



- 1. Open index.html
- 2. Update code to have hello world

Install Express

Use the npm init command to create a package.json file for your application.

https://docs.npmjs.com/files/package.json

```
website · index.html

index.html

website · index.html

package.json

1 ▼ {
2     "name": "tester",
3     "version": "1.0.0",
4     "description": "testing site",
5     "main": "index.js",
6 ▼ "scripts": {
7     "test": "echo \"Error: no test specified\" && exit 1"
8     },
9     "author": "",
10     "license": "ISC"
11     }
12
```

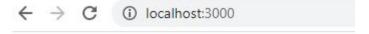
- 1. In the CLI go to folder and type npm init
- 2. Check the package json file created.
- 3. Install Express
- 4. Open folder

Create Local Machine

Setup default index.js file to run express

This code starts a server and listens on port 3000 for connections.

Use CTRL+C to stop server if currently running



Hello World!

```
const express = require('express');
const app = express();
const port = 3000;
app.get('/', function (req, res) {
   return res.send('Hello World!');
});
app.listen(port, function () {
   return console.log("Ready on port ".concat(port, "!"));
});
```

- 1. Create new index.js file
- 2. Require express
- 3. Set port ex 3000
 - Return message
- 5. In your browser go to http://localhost:3000/

Nodemon

https://nodemon.io/ Nodemon is a utility that will monitor for any changes in your source and automatically restart your server. Perfect for development.

https://www.npmjs.com/package/nodemon

Please note that on windows you need to be admin in order to install, you can also prefix with sudo for linux.



```
npm install -g nodemon
nodemon index.js

app.listen(port, function () {
  return console.log(`Ready on Port : ${port}!`);
});
```

- 1. Run index.js with nodemon
- 2. Update index.js and save

Test folder Route

JSON ready to return JavaScript objects.

Perfect for testing your AJAX requests and exploring routing.

```
← → C ① localhost:3000/test

{"message":"Hello world"}
```

```
const express = require('express');
const app = express();
const port = 3000;

app.get("/test", function (req, res) {
   res.json({
     message: "Hello world"
   });
});

app.listen(port, function () {
   return console.log(`Ready on Port : ${port}!`);
});
```

- 1. Create a test route
- 2. Return response as JSON

Serve files route folder

Create a folder for all public files

Move index.html into public folder

Add routing to dirname and public folder.



Hello World 1

```
const express = require('express');
const app = express();
const port = 3000;

app.get("/test", function (req, res) {
   res.json({
     message: "Hello world"
   });
});

app.use(express.static(__dirname + '/public'));

app.listen(port, function () {
   return console.log(`Ready on Port : ${port}!`);
});
```

- 1. Create a folder called public
- 2. Move your index.html into public
- 3. Use use to provide static route to public folder

Congratulations on completing the course!

Thank you for your support

