Notebook 4: EJS

This will show you how to make webpage templates with EJS.

# Requirements

* Command Prompt
* Any code editor (like Atom)

# Setting up an express.js project

To start, you need to install express by:

● Оpen the command prompt.

● Type “cd” followed by the name of the desired folder.

● Then, type “npm init”

○ It’ll ask you for a bunch of different things like name, version, etc. You can go through and write whatever it asks.

● Type “npm install eхpress”. This will start the installation of express for that folder.

● Type “npm install express-ejs-layouts” This will then start the installation for EJS Layouts which will be needed for the css file to work properly

● Make a new file in the JavaScript app of your choice

● On the first line, you need to type:

### const express = require(‘eхpress’);

# Arranging your project folders

Arranging your project folders can come pretty handy. lt makes it easier on the eyes, you can find things quicker, and others can easily figure out where things are.

● DON’T keep everything on a personal computer, keep them in a shared space.

● Remember about subfolders.

○ Ex: have a folder for the things Express automatically does and keep them all there.

● NAME YOUR FlLES WELL. Don’t name them random things, it’ll just get confusing.

There are multiple different ways people organize, and it’s mostly preferences, but these tips can really help you find your files easier.

# Basic .css / .js files

## .css

.css files are essential to spice up a site. You can customize them however you want, but I’ll show some basic ones.

.css files are pretty easy to learn how to use, and are very adaptable. For example:

### body {

### background-color: lightblue;

### }

### h1 {

### color: white;

### text-align: center;

### }

### p {

### font-family: verdana;

### font-size: 20px;

### }

You can use this code to make a light blue background with a centered title and paragraph below. lf you look at it, the code isn’t that hard to think of, so almost anyone can do this!

Some of the commands you could use are:

● background-color: \*\*\*

● color: \*\*\*

● text-align: \*\*\*

● font-family: \*\*\*

● font-size: \*\*\*

These are the ones used. As you can tell, they're relatively straightforward and after a little bit of playing around with it you’ll find what you like.

# .js files

.js files are the files on an HTML page that hold javascript code. They're really simple to create.

● Open your ExpressJS folder

● Right click and add text document

● Rename the document to \*\*\*.js

○ (For this example, I’ll be naming it as ‘example’. You can name it whatever you believe will be easiest.)

# EJS code

l think this is asking for the code to set up

## Basic EJS template

An EJS template is relatively easy to come by, as it literally does it for you.

● Open your JavaScript app and file

● input this at the top of your code:

### var eхpress = require('eхpress');

### const expressLayouts = require('express-ejs-layouts')

### var app = eхpress()

### const PORT = <whatever port you want>

This code sets it up so you can use EJS.

● After you have all of this, enter a new file (IN THE SAME FOLDER!). You should be able to write ‘req’ and tab. It’ll automatically make an EJS template for you.

# Render a Template when User Requests an Endpoint

Rendering a template when a user requests an endpoint means that when a user wants to go somewhere (like /about) and it’ll bring up a template for an about page for them to view.

Code you can use to do this would be:

### //sends the about page template when a user requests /about

### app.get('/about', function (req, res) {

### res.render('about');

### });

This code sends a user to the /about template when they ask for it.It’s quick, easy to use, and works well.

# Inserting text into template when rendering

This is an example EJS page.

### <html>

### <head>

### <title> Company E / Team 5 </title>

### <meta charset="utf-8">

### <link rel="stylesheet" href="style.css">

### </head>

### <h1>

### Company E / Team 5

### 

### </h1>

### <div id="btnform">

### <div id="btnbox">

### <p>

### This is our homepage<br>

### When it comes to programming we aren't the best at the moment, but we hope to improve, as there is always room too.<br>

### We work together pretty good, even if we aren't always on task.

### </p>

### <div id="txt"></div>

### </div>

### </div>

### <form class="button" action="/about">

### <input type="submit" value="About us" />

### </form>

### </html>

This will show our homepage with a .css file whenever someone goes to the main endpoint.

# Result

