



WEEK 5 Module 18

Getting Started with Product Design

Express Router

Defining routes like we have been doing in our Wordy project is quite tedious to maintain. Overtime, our codebase might become large due to increased features and everything becomes complicated if left in one **app.js** file.

To help remedy for this, we make use of routers. Routers are very helpful in separating concerns and keeping relevant portions of our code together. They help in building maintainable code. In Express, we create routers by making use of the **express.Router()** function.

The **express.Router()** function is used to create a new router object. This function is used when you want to create a new router object in your program to handle requests. For more information on express router, visit

https://developer.mozilla.org/en-US/docs/Learn/Server-side/Express_Nodejs/routes
<https://codeforgeek.com/expressjs-router-tutorial/>

MVC in Express

MVC stands for Model, View, Controller is an architectural pattern that separates an application into three main logical components: the model, the view, and the controller. Each one of these components is built to handle specific development aspects of an application.

MVC is architecture used in building Web Servers that focus on reliability and making the development process much simpler and easier since it composes the Web Server into three separate parts.

Controller

This is the part that takes care of client request processing which handles the HTTP Request and returns a response the response could be either a JSON if you're calling an API endpoint or regular HTML webpage.

Model

This is the database interface which lets you interact with the database API and create different entity schemas of your app on the database (MySQL, MongoDB), it gets called from controller depending on the client's request if it needs a stored data then the controller will ask the model interface for providing it with the needed data.

View

This is what compiles and renders into plain HTML and what the client in most cases going to get back as a response of what he requested (for ex: to view his profile details), the view needs to use a Template Engine for doing the rendering process where the controller feed it with needed data (data from database and client) and the view renders and convert everything into plain HTML that the browser could understand and display.

to learn more about how these 3 different parts works together, check out

<https://medium.com/@ipenywis/what-is-the-mvc-creating-a-node-js-express-mvc-application-da10625a4eda>

https://developer.mozilla.org/en-US/docs/Learn/Server-side/Express_Nodejs/routes