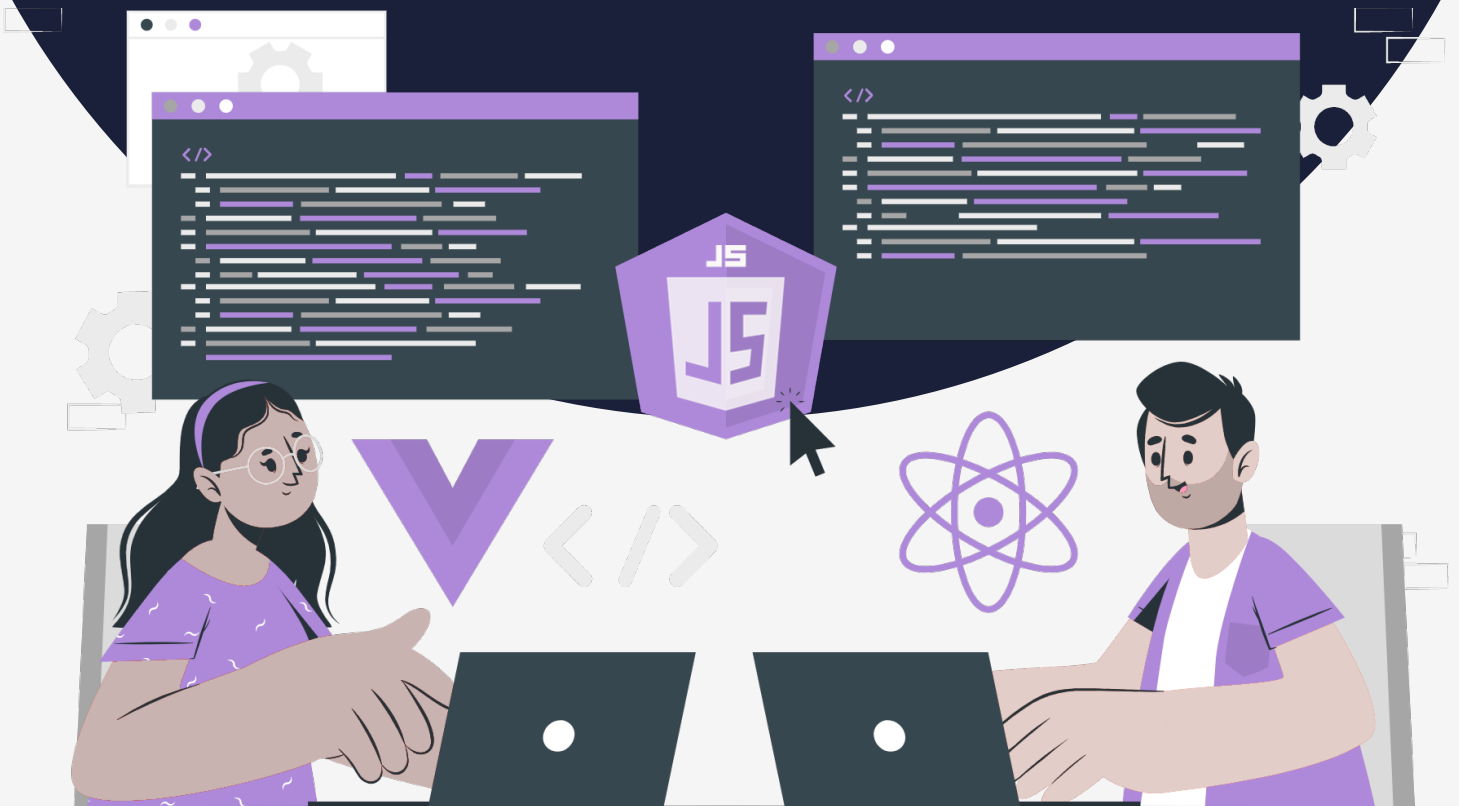# Lesson:

Path to Become a Full-Stack Developer

Walkthrough with the frontend web development

1. Getting Started with Web
   a. Introduction to web
   b. Getting started with HTML and Emmet
   c. HTML elements and attributes
   d. Media and Forms
   e. Semantic Tags and Accessibility in HTML

2. Getting Started with Style
   a. Introduction to CSS
   b. CSS selectors and combinators
   c. Positions in CSS
   d. Flexbox in CSS
   e. Grid in CSS

3. Version Control Systems (VCSs)
   a. Introduction to version control systems (Git)
   b. Introduction to GitHub

4. Vanilla JavaScript
   a. JavaScript Fundamentals - 1
       i. Introduction to JavaScript
       ii. JavaScript Variables, data types, and operators
       iii. Loops in JavaScript
       iv. JavaScript Function
   b. JavaScript Fundamentals - 2
       i. Array
       ii. Object
       iii. DOM Manipulation

5. Advanced JavaScript
   a. Error Handling
   b. HOF and Functional Programming
   c. Call stack, event loop
   d. ES 6
       i. Arrow functions
       ii. Destructuring
       iii. Classes
   e. Asynchronous programming
       i. Callback / Promise and async/await

6. React JS
   a. Walkthrough with React
        i. Introduction to react
       ii. JSX
      iii. Functional Component
      iv. React Hooks
       v. React router dom
   b. Form Handling
   c. React with Tailwind
   d. Handling API
   e. State Management using the redux toolkit

7. Networking
   a. Introduction to Internet and networking
   b. Introduction to browsers
   c. Introduction to client and server

Walkthrough with the backend web development

1. NodeJS
   a. Fundamentals of NodeJS

2. ExpressJS
   a. Walkthrough with ExpressJS
   b. Fundamentals of ExpressJS
   c. CRUD with Express
   d. Auth with Express

3. MongoDB
   a. Introduction to database
   b. ORM vs ODM
   c. CRUD operation