Guide2Code - Web Development Roadmap

Beginner Level - Getting Started with Web Development

Required Programming Languages:

- **HTML** (HyperText Markup Language)
- CSS (Cascading Style Sheets)
- JavaScript (Basic Concepts)

Required Skills:

- Responsive Web Design
- Version Control (Git & GitHub) 🖸
- Basic Understanding of Web Hosting & Deployment (

Learn the Fundamentals:

- **HTML Basics**: Structure of web pages, tags, and attributes.
- CSS Basics: Styling websites with colors, fonts, and layout techniques.
- JavaScript Basics: Variables, functions, loops, and events.
- Responsive Web Design: Making websites look good on all screen sizes using media queries.
- Version Control Systems (Git): Using Git for version control and GitHub for collaboration.

Beginner Projects 2:

- 1. Personal Portfolio Website Build a simple portfolio to showcase your skills.
- 2. Landing Page Design and develop a single-page website.
- 3. Simple To-Do List App Build a basic to-do list app using HTML, CSS, and JavaScript.
- 4. **Responsive Blog Page** Create a blog page that looks great on both desktop and mobile.
- 5. **GitHub Portfolio** Host your portfolio website on GitHub Pages.

Intermediate Level - Expanding Web Development Knowledge

Required Programming Languages:

- JavaScript (Intermediate) <a>___
- Node.js (Backend) 🗐
- SQL (Basic)

Required Skills:

- Web Development Frameworks (React, Vue, Angular)
- Databases (SQL, NoSQL) 📊
- API Integration Ø

Expanding Your Knowledge:

- JavaScript ES6+: Learn advanced JavaScript features like async/await, destructuring, and modules.
- Frontend Frameworks: Learn how to use React, Vue, or Angular to build interactive Uls.
- Backend Development: Learn Node.js and Express.js to handle server-side logic.
- **Databases**: Understand how to work with both SQL (MySQL, PostgreSQL) and NoSQL (MongoDB) databases.
- API Integration: Learn how to integrate third-party APIs and build your own RESTful APIs.

Intermediate Projects 3:

- 1. Task Management App Build a task management app with a backend and database.
- 2. Weather App with API Use a public API to build a weather app.
- 3. **Blog Platform** Develop a simple blog with user authentication and CRUD operations.
- 4. **E-Commerce Site** Create an e-commerce site with a shopping cart and checkout process.
- 5. **Chat Application** Build a real-time chat application using WebSockets.

Advanced Level - Mastering Web Development

Required Programming Languages:

- JavaScript (Advanced)
- TypeScript ||
- GraphQL

Required Skills:

- Full-Stack Development (MERN, MEAN) (
- Authentication & Authorization (OAuth, JWT)
- Server-Side Rendering (SSR) & Static Site Generation (SSG) 4
- Advanced Database Management

Deep Dive Into Advanced Topics:

- Full-Stack JavaScript: Master the MERN (MongoDB, Express, React, Node.js) or MEAN (MongoDB, Express, Angular, Node.js) stack.
- **TypeScript**: Understand how to use TypeScript for type safety and better code management.
- **GraphQL**: Learn how to use GraphQL for more efficient data fetching and management.
- Authentication: Implement OAuth, JWT, and other modern authentication strategies.
- **Server-Side Rendering (SSR)**: Build websites that are pre-rendered on the server to improve SEO and performance.
- **Web Performance**: Learn techniques for optimizing web performance like lazy loading, image compression, and code splitting.

Advanced Projects 2:

- 1. **Full-Stack E-Commerce Platform** Build a fully functional e-commerce website with both frontend and backend.
- 2. **Real-Time Collaboration Tool** Create a tool for real-time collaboration, such as a document editor.
- 3. GraphQL API for a Blog Implement a GraphQL API for managing blog data.

4.	Custom CMS (Content Management System) - Develop a custom CMS for managing website content.
5.	Web App with Server-Side Rendering - Build a web app with SSR using Next.js or Nuxt.js for faster page loads and SEO.
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