Web Application Development - 1 Month Course

- Day 5: Introduction to JavaScript

- Day 6: DOM Manipulation
Using JavaScript to dynamically modify HTML and CSS.
- Day 7: Project: A Simple Portfolio Page
Create a personal portfolio webpage using HTML, CSS, and JavaScript.

Week 2: Building Dynamic Websites
- Day 8: Introduction to Responsive Design
Using CSS Flexbox and Grid for responsive layouts.
- Day 9: Forms and Form Validation
Creating forms and adding client-side validation.
Day 10. Introduction to Doctotron
- Day 10: Introduction to Bootstrap
Simplifying styling with the Bootstrap framework.
- Day 11: Introduction to APIs
Fetching data from APIs using JavaScript (e.g., JSONPlaceholder).
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- Day 12: Working with External Libraries

Using libraries like jQuery or Chart.js.

Adding interactivity to webpages with JavaScript.

- Day 13: Introduction to Version Control with Git
Setting up Git and pushing projects to GitHub.
- Day 14: Project: Blog Website with API Integration
Build a basic blog with posts fetched from an API.
Week 3: Backend Development
- Day 15: Introduction to Backend and Node.js
Basics of server-side development and Node.js setup.
- Day 16: Working with Express.js
Setting up a web server using Express.js.
- Day 17: Introduction to Databases
Basics of relational (MySQL) and NoSQL (MongoDB) databases.
- Day 18: RESTful APIs

- Day 19: Authentication Basics

Adding user authentication using JWT or session cookies.

Creating and testing RESTful APIs using Postman.

Day 20: File Upload and Management
Handling file uploads in a web application.

Day 21: Project: Task Manager Application
Build a task manager app with Express.js and MongoDB.
Week 4: Full-Stack Web Application Development
Day 22: Introduction to Full-Stack Development
Combining frontend and backend technologies.
Day 23: Integration of Frontend and Backend
Connecting the frontend (React or vanilla JS) with the backend (Express.js).
Day 24: Deployment Basics
Hosting a web application on platforms like Vercel, Netlify, or Heroku.
Day 25: Optimizing Web Applications
Performance optimization and debugging tips.
Day 26: Testing Your Application
Writing unit tests and using tools like Jest or Mocha.
Day 27: Final Project Workday

- Day 28: Final Project Showcase and Feedback

Build a custom full-stack application integrating all learned skills.

Present the final web application and gather feedback.

Outcome: By the end of this course, participants will be able to build, deploy, and manage full-stack web applications. They will have hands-on experience with modern tools and frameworks used in web development.