

# Web Development Roadmap

## Frontend Development (Duration: 2-3 months)

1. HTML (1 week)
  - Basics of HTML, Semantic Tags, Forms, Tables
2. CSS (1-2 weeks)
  - Styling, Box Model, Flexbox, Grid, Media Queries
3. JavaScript (3-4 weeks)
  - Syntax, DOM Manipulation, Events, ES6+, Fetch API
4. Version Control (Git & GitHub) (1 week)
  - Basic Git commands, GitHub usage
5. Responsive Design (1 week)
  - Mobile-first approach, frameworks like Bootstrap or Tailwind CSS
6. Frontend Framework (2-3 weeks)
  - React.js: Components, Props, State, Hooks, Routing
7. Mini Project (1 week)
  - Build a simple responsive website using HTML, CSS, JS, and React

## Backend Development (Duration: 2-3 months)

1. Programming Language (1-2 weeks)
  - Node.js with JavaScript or Python with Django/Flask
2. RESTful APIs (2 weeks)

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- CRUD Operations, JSON, API testing with Postman

## 3. Databases (2 weeks)

- MongoDB (NoSQL) or MySQL (SQL), basic queries, schema design

## 4. Authentication (1 week)

- Login/Signup, JWT or Session-based auth

## 5. MVC Architecture (1 week)

- Structuring your app

## 6. Deployment (1 week)

- Hosting with Netlify, Vercel, or Render for frontend; Heroku or Railway for backend

## 7. Final Full-Stack Project (2-3 weeks)

- Complete MERN or Django-React app with user authentication and database connectivity