

## Title: 2-Month Web Development Learning Roadmap for Beginners (Hands-On Projects Focus)

### Week 1: Introduction to Web Development and Setting Up Your Environment

- Introduction to HTML, CSS, and JavaScript
- Resource: [freeCodeCamp HTML, CSS, and JavaScript courses](<https://www.freecodecamp.org/>)

### Week 2: HTML & CSS Fundamentals

- Understanding HTML5 and CSS3 basics
- Building a simple static website using HTML5 and CSS3
- Resource: [freeCodeCamp HTML and CSS courses](<https://www.freecodecamp.org/>)

### Week 3: CSS Flexbox and Responsive Design

- Mastering CSS Flexbox for responsive web design
- Understanding media queries and responsive design principles
- Resource: [freeCodeCamp Responsive Web Design course](<https://www.freecodecamp.org/learn/responsive-web-design/>)

### Week 4: JavaScript Fundamentals

- Learning JavaScript variables, data types, functions, and control structures
- Working with the Document Object Model (DOM)
- Resource: [freeCodeCamp JavaScript Algorithms and Data Structures course](<https://www.freecodecamp.org/learn/javascript-algorithms-and-data-structures/>)

### Week 5: ES6 and Modern JavaScript

- Exploring new features of ECMAScript 6 (ES6)
- Using npm and Babel for modern JavaScript development

- Resource: [ES6 features on MDN Web

Docs](<https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/ES6>)

## Week 6: Introduction to Git and Github

- Version control with Git
- Collaborating with Github for open-source contributions
- Resource: [Try Git](<https://try.github.io/>) and [Github Guides](<https://guides.github.com/>)

## Week 7: Building a Portfolio Website

- Applying HTML, CSS, and JavaScript skills to create a personal portfolio website
- Deploying the project to GitHub Pages or other hosting platforms

- Resource: [freeCodeCamp Portfolio

Project](<https://www.freecodecamp.org/learn/responsive-web-design/responsive-web-design-projects/create-a-portfolio-webpage/>)

## Week 8: Introduction to React

- Learning the basics of React, a popular JavaScript library for building user interfaces
- Building a simple React component
- Resource: [freeCodeCamp React course](<https://www.freecodecamp.org/learn/react/>)

## Week 9: Building a Project with React

- Building a more complex project using React
- Resource: [Create-React-App](<https://create-react-app.dev/docs/getting-started/>)

## Week 10: Advanced Topics (APIs, State Management, and Routing)

- Working with APIs using Fetch or Axios

- Learning about state management with Redux
- Implementing routing with React Router
  - Resource: [freeCodeCamp Advanced React and Redux course](https://www.freecodecamp.org/learn/advanced-react/)

#### Week 11: Testing and Debugging

- Learning how to test React applications with Jest and Enzyme
- Debugging and improving performance with React development tools
  - Resource: [freeCodeCamp Testing a React App course](https://www.freecodecamp.org/learn/testing-a-react-app/)

#### Week 12: Final Project and Portfolio Presentation

- Applying everything learned to a final project of the learner's choice
- Creating a professional portfolio showcasing their projects and skills
  - Resource: Choose a project that suits the learner's interests and goals, such as a personal blog, a to-do list app, or an e-commerce website.