CodeCruise

SAIL SMOOTH IN TECH OCEAN

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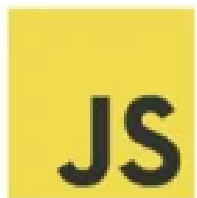
Angular Essentials

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Introduction: Welcome to the Crash Course on Angular! Angular is a powerful JavaScript framework for building dynamic and responsive web applications. In this intensive program, we'll cover the fundamental concepts and features of Angular, equipping you with the skills to kickstart your journey as an Angular developer.

Tech Stack To Be Covered

JAVASCRIPT	Angular	HTML	CSS	Bootstrap

Deployment

Angular Essentials

Course Outline:

1. **Introduction to Angular:**
   - Overview of Angular framework
   - Understanding Angular's architecture and key features
   - Setting up a development environment

2. **Getting Started with Angular CLI:**
   - Installing Angular CLI
   - Generating a new Angular project
   - Exploring project structure and files

3. **Components and Templates:**
   - Creating and understanding Angular components
   - Building templates with Angular's template syntax
   - Data binding and interpolation

4. **Directives and Pipes:**
   - Using built-in directives such as ngIf, ngFor, and ngSwitch
   - Creating custom directives
   - Transforming data with built-in and custom pipes

5. **Services and Dependency Injection:**
   - Implementing services for reusable logic
   - Injecting dependencies into components
   - Understanding the hierarchical injector

6. **Routing and Navigation:**

- Setting up client-side routing with Angular Router

- Defining routes and configuring navigation

- Handling route parameters and query parameters

7. **Forms and Validation:**

- Building template-driven and reactive forms

- Performing form validation using Angular's built-in validators

- Handling form submission and data binding

8. **HTTP Client and Observables:**

- Making HTTP requests with Angular's HttpClient module

- Handling responses and error handling

- Working with observables and operators

9. **State Management with NgRx (Optional):**

- Introduction to NgRx for state management

- Implementing actions, reducers, and selectors

- Managing application state in Angular

10. **Deployment and Best Practices:**

- Building an Angular application for production

- Deploying Angular applications to various hosting platforms

- Best practices for organizing code and optimizing performance

Conclusion: Congratulations on completing the Crash Course on Angular! You've acquired a solid understanding of Angular fundamentals and are well-equipped to start building dynamic and responsive web applications. Keep exploring and practicing to further enhance your skills as an Angular developer.