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# BOOTSTRAP

## 1: Introduction to Bootstrap

### 1.1. What is Bootstrap?

- 1.1.1. Introduction to the Bootstrap Framework
- 1.1.2. Advantages of Using Bootstrap

### 1.2. History and Versions

- 1.2.1. Bootstrap 3 vs. Bootstrap 4 vs. Bootstrap 5
- 1.2.2. Key Features and Improvements

## 2: Setting Up Bootstrap

### 2.1. Downloading Bootstrap

- 2.1.1. Obtaining Bootstrap Files
- 2.1.2. Bootstrap CDN (Content Delivery Network)

### 2.2. Basic HTML Structure

- 2.2.1. Adding Bootstrap CSS and JS
- 2.2.2. Creating a Bootstrap Container

## 3: Bootstrap Grid System

### 3.1. Grid Layout Basics

- 3.1.1. Container, Rows, and Columns
- 3.1.2. Grid Classes (col-xs, col-sm, col-md, col-lg)

### 3.2. Responsive Grid

- 3.2.1. Mobile-First Design
- 3.2.2. Offset Columns and Nesting Grids

### 3.3. Grid Utilities

- 3.3.1. Alignment and Order Classes
- 3.3.2. Custom Grid Sizing



## **4: Typography and Forms**

### **4.1. Typography in Bootstrap**

- 4.1.1. Headings, Paragraphs, and Text Styles
- 4.1.2. Lists and Blockquotes

### **4.2. Form Elements**

- 4.2.1. Form Controls (Inputs, Textareas, Selects)
- 4.2.2. Form Layout and Validation States

## **5: Bootstrap Components**

### **5.1. Navigation Bars (Navbar)**

- 5.1.1. Creating Responsive Navigation Bars
- 5.1.2. Navbar Variants and Dropdowns

### **5.2. Buttons and Badges**

- 5.2.1. Button Styles and Sizes
- 5.2.2. Adding Badges to Buttons

### **5.3. Alerts and Modals**

- 5.3.1. Dismissible Alerts
- 5.3.2. Creating Modal Dialogs

## **6: Bootstrap Styling**

### **6.1. Customizing Bootstrap**

- 6.1.1. Overriding Bootstrap Styles
- 6.1.2. Custom CSS Integration

### **6.2. Using Bootstrap Themes**

- 6.2.1. Bootstrap Theme Sources
- 6.2.2. Applying and Customizing Themes

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## **7: Advanced Bootstrap Topics**

### **7.1. Bootstrap and JavaScript**

- 7.1.1. Adding JavaScript Plugins
- 7.1.2. Custom JavaScript Integration

### **7.2. Responsive Design with Bootstrap**

- 7.2.1. Responsive Images and Embeds
- 7.2.2. Responsive Utilities

### **7.3. Accessibility and Best Practices**

- 7.3.1. Web Accessibility Considerations
- 7.3.2. Bootstrap Best Practices

## **8: Bootstrap Projects and Real-World Applications**

### **8.1. Building a Bootstrap Website**

- 8.1.1. Designing a Landing Page
- 8.1.2. Creating a Blog Layout

### **8.2. Bootstrap for Web Applications**

- 8.2.1. Styling Web Forms and Tables
- 8.2.2. Bootstrap in Single-Page Applications

(SPAs)

## **9: Final Project and Course Review**

### **9.1. Project Proposal and Planning**

- 9.1.1. Designing a Web Project with Bootstrap
- 9.1.2. Implementing Responsive Design

### **9.2. Implementation and Presentation**

- 9.2.1. Building the Web Project
- 9.2.2. Final Project Presentation



