

# Bootstrap



## e-Learning Course



Zetlan Technologies

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# COURSE MODULES

## Module 1: Introduction to Bootstrap

- What is Bootstrap?
- History and Evolution of Bootstrap
- Benefits of Using Bootstrap
- Setting Up Bootstrap (CDN & Local)
- Bootstrap File Structure

## Module 2: Bootstrap Grid System

- Understanding the Grid System (Containers, Rows, Columns)
- Responsive Layouts (Breakpoints: xs, sm, md, lg, xl, xxl)
- Nesting and Offsetting Columns
- Flexbox Utilities in Bootstrap

## Module 3: Bootstrap Typography and Colors

- Bootstrap Typography Classes
- Text Alignment, Decoration, and Transformation
- Display and Responsive Text
- Bootstrap Colors and Backgrounds

## Module 4: Bootstrap Components

- Buttons and Button Groups
- Forms and Input Groups
- Alerts, Badges, and Progress Bars
- Cards and List Groups
- Pagination and Breadcrumbs
- Modals, Popovers, and Tooltips

## Module 5: Bootstrap Navigation and Layouts

- Navbar and Navigation Components
- Sidebars and Offcanvas Menus
- Dropdowns and Mega Menus
- Jumbotron and Hero Sections



## **Module 6: Bootstrap Tables and Forms**

- Responsive Tables
- Table Styling and Hover Effects
- Form Controls and Form Validation
- Input Groups, Checkboxes, and Radio Buttons

## **Module 7: Bootstrap Utilities and Helpers**

- Spacing (Margin, Padding)
- Borders, Shadows, and Display Utilities
- Positioning and Sizing
- Overflow, Visibility, and Z-Index Utilities

## **Module 8: Bootstrap Flexbox & Grid Advanced**

- Flexbox Layout Utilities
- Justify and Align Items
- Auto Margins for Flexbox
- Advanced Grid Techniques

## **Module 9: Bootstrap JavaScript Components**

- Carousel (Image Sliders)
- Collapse and Accordion
- Scrollspy and Affix
- Toasts and Dynamic Components

## **Module 10: Bootstrap Themes and Customization**

- Customizing Bootstrap with SASS
  - Using Bootstrap with CSS Variables
  - Creating a Custom Bootstrap Theme
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## **Module 11: Bootstrap and Responsive Design**

- Media Queries in Bootstrap
- Mobile-First Design Principles
- Adaptive vs. Responsive Design

## **Module 12: Bootstrap Integration with Other Frameworks**

- Using Bootstrap with React, Vue, and Angular
- Bootstrap with WordPress
- Bootstrap with jQuery

## **Module 13: Bootstrap Project and Best Practices**

- Building a Responsive Website with Bootstrap
  - Debugging and Optimization Tips
  - Common Mistakes to Avoid
  - Deployment and Hosting
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