**Assignment** 1: Introduction to HTML, CSS, and JavaScript

- Title: Building Your First Web Page
- Aim: Create a simple webpage using HTML and apply basic styling with CSS. Introduce JavaScript for interactivity.
- Skills: Basic HTML structure, text formatting, inline and internal CSS, basic JavaScript.
- Sample Idea: Personal introduction webpage with interactive elements.
- Programming Tips:
    - Use HTML to structure content, CSS to style elements, and JavaScript to add interactivity.
    - Apply JavaScript to create simple actions like button clicks and alerts.

**Assignment** 2: Structuring and Styling Content with CSS

- Title: Creating a Styled Blog Post
- Aim: Build a blog post layout with proper HTML structure and enhanced styling using advanced CSS features.
- Skills: Semantic HTML, headings, paragraphs, CSS classes and IDs, CSS selectors, advanced styling.
- Sample Idea: Blog post about a favorite hobby with styled content and images.
- Programming Tips:
    - Use CSS selectors to target specific elements for styling.
    - Experiment with advanced CSS properties like `transform`, `transition`, and `box-shadow` for unique effects.

**Assignment** 3: Responsive Design and Layout with Flexbox and Media Queries

- Title: Designing a Responsive Portfolio
- Aim: Develop a responsive webpage layout using Flexbox and media queries to cater to various screen sizes.
- Skills: Media queries, responsive units, Flexbox layout, responsive images.
- Sample Idea: Portfolio showcasing projects with responsive design.
- Programming Tips:
    - Implement a mobile-first approach by designing for smaller screens initially.
    - Use media queries to adapt styles based on screen width breakpoints.
    - Apply Flexbox properties for creating fluid and responsive layouts.

**Assignment** 4: Interactive Components with JavaScript

- Title: Interactive FAQ Page
- Aim: Design an interactive FAQ page with expandable sections using JavaScript for enhanced user experience.
- Skills: CSS transitions, pseudo-classes, display properties, JavaScript events.
- Sample Idea: FAQ page with expandable sections that toggle on click.

- Programming Tips:
    - Use JavaScript to toggle content visibility on click events.
    - Apply CSS transitions for smooth animations during content expansion and collapse.

**Assignment** 5: Styling Advanced UI Elements with Grid and Advanced CSS

- Title: Styling a Pricing Table
- Aim: Design an appealing pricing table with detailed CSS styling using Grid and advanced CSS features.
- Skills: Advanced CSS properties, box shadows, gradients, Flexbox, Grid layout, responsive design.
- Sample Idea: Pricing plans for a subscription service with interactive features.
- Programming Tips:
    - Use advanced CSS properties like `box-shadow`, `linear-gradient`, and `border-radius` for enhanced styling.
    - Employ Grid and Flexbox layout techniques for creating visually appealing and responsive designs.

**Assignment** 6: Interactive Forms and DOM Manipulation

- Title: Building a Contact Form
- Aim: Create an interactive contact form with validation using JavaScript and advanced form styling.
- Skills: Form elements, DOM manipulation, event handling, form validation.
- Sample Idea: Contact form with real-time validation and user-friendly feedback.
- Programming Tips:
    - Use JavaScript to validate form inputs and provide error messages.
    - Enhance the user experience with CSS transitions during form interactions.

**Assignment** 7: CSS Transitions and Animations

- Title: Animate Your Portfolio
- Aim: Apply CSS transitions and keyframe animations to enhance user experience and visual appeal.
- Skills: CSS animations, keyframes, easing functions.
- Sample Idea: Animated portfolio showcasing projects with hover effects.
- Programming Tips:
    - Create smooth transitions on hover using CSS.
    - Experiment with keyframe animations to add dynamic movement to elements.

**Assignment** 8: Complex Layouts with CSS Grid and Flexbox

- Title: Creating a Magazine Layout

- Aim: Build a complex magazine-style layout using CSS Grid and Flexbox for advanced page structures.
- Skills: CSS Grid layout, Flexbox layout, multi-column layouts.
- Sample Idea: Magazine-style layout with articles, images, and ads.
- Programming Tips:
  - Utilize both CSS Grid and Flexbox to create intricate layouts.
  - Experiment with Grid template areas for placing elements in specific areas.

**Assignment** 9: Responsive Navigation and Accessibility

- Title: Designing a Navigation Menu
- Aim: Design a responsive navigation menu with accessibility considerations and interactive behavior.
- Skills: Responsive navigation, CSS transitions, accessibility best practices.
- Sample Idea: Navigation menu that transforms into a mobile-friendly dropdown.
- Programming Tips:
  - Implement media queries for responsive navigation.
  - Use JavaScript to enhance accessibility features like keyboard navigation.

**Assignment** 10: Advanced Styling and Customization with Meta Tags, Canvas, and Iframes

- Title: Customizing a Blog Theme
- Aim: Customize an existing blog theme by integrating advanced CSS features and JavaScript interactivity, including meta tags, canvas, and iframes.
- Skills: Customizing existing themes, advanced CSS, JavaScript integration, meta tags, canvas, iframes.
- Sample Idea: Apply custom styles, interactive elements, meta tags, canvas drawing, and iframe integration to an existing blog theme.
- Programming Tips:
  - Modify and override CSS properties to achieve a unique look.
  - Integrate JavaScript features like modals, sliders, and interactive forms.
  - Use meta tags for specifying page properties, include a favicon, and embed external content using iframes.

**Assignment** 11: Working with Images and Media Elements

- Title: Image Gallery and Video Embedding
- Aim: Create an interactive image gallery and embed videos using HTML5's image and media elements.
- Skills: `<img>` element, `<video>` element, image optimization, video embedding.
- Sample Idea: Image gallery with lightbox effect and embedded videos.
- Programming Tips:
  - Use responsive images for various screen sizes.
  - Embed videos using HTML5's `<video>` element with appropriate controls.

**Assignment** 12: Advanced Styling and Media Queries for Images

- Title: Artistic Image Showcase
- Aim: Design an artistic image showcase with responsive images and media queries for different devices.
- Skills: Advanced image styling, media queries, CSS filters.
- Sample Idea: Image showcase with creative filters and responsiveness.
- Programming Tips:
  - Apply CSS filters for creative image effects.
  - Use media queries to adjust image sizes and styles based on screen sizes.

**Assignment** 13: Video Background and Media Controls

- Title: Creating a Video Background
- Aim: Implement a video background with overlay content and customize media controls using HTML5 and CSS.
- Skills: Video background, overlay content, custom media controls.
- Sample Idea: Landing page with a video background and call-to-action overlay.
- Programming Tips:
  - Use the `<video>` element for the background video.
  - Customize media controls with CSS and JavaScript for a polished look.

**Assignment** 14: Canvas Drawing and Interactive Graphics

- Title: Interactive Canvas Drawing
- Aim: Utilize the `<canvas>` element to create interactive graphics and drawings using JavaScript.
- Skills: `<canvas>` element, 2D graphics, JavaScript drawing.
- Sample Idea: Interactive canvas drawing with colors and shapes.
- Programming Tips:
  - Use JavaScript to control drawing on the `<canvas>` element.
  - Implement interactivity like changing colors and shapes.

**Assignment** 15: Advanced Form Styling and Validation

- Title: Stylish Form with Validation
- Aim: Design a stylish form with advanced styling and JavaScript-based form validation.
- Skills: Form styling, custom form elements, JavaScript form validation.
- Sample Idea: Stylish contact form with real-time validation.
- Programming Tips:
  - Customize form elements using CSS.
  - Use JavaScript for form validation and provide user-friendly feedback.

**Assignment** 1: Responsive Landing Page

- Title: Creating a Responsive Landing Page
- Aim: Develop a responsive landing page using the mobile-first approach, viewport settings, and media queries.
- Skills: Viewport meta tag, mobile-first design, media queries, responsive units.
- Sample Idea: Landing page for a mobile app with responsive design.
- Programming Tips:
    - Use the viewport meta tag to control how the page is displayed on different devices.
    - Start designing for smaller screens first and then use media queries to adjust styles for larger screens.

**Assignment** 2: Responsive Image Gallery

- Title: Building a Responsive Image Gallery
- Aim: Create an image gallery that adapts to different screen sizes using media queries and responsive images.
- Skills: Media queries, responsive images, image gallery layout.
- Sample Idea: Image gallery showcasing a collection of photos.
- Programming Tips:
    - Use media queries to adjust the number of images displayed per row based on screen width.
    - Optimize images for different screen resolutions using responsive image techniques.

**Assignment** 3: Mobile-First Navigation Menu

- Title: Designing a Mobile-First Navigation Menu
- Aim: Design a navigation menu that's optimized for mobile devices first, and progressively enhance it for larger screens.
- Skills: Mobile-first design, responsive navigation, media queries.
- Sample Idea: Navigation menu that starts as a mobile dropdown and expands on larger screens.
- Programming Tips:
    - Design the mobile version of the navigation menu using CSS and media queries.
    - Enhance the menu for larger screens by changing its layout and appearance.

**Assignment** 4: Responsive Blog Layout

- Title: Crafting a Responsive Blog Layout
- Aim: Build a blog layout that adjusts its content and typography based on screen sizes using media queries.
- Skills: Typography responsiveness, media queries, flexible layouts.
- Sample Idea: Blog with optimized reading experience on various devices.

- Programming Tips:
    - Use relative units like `em` and `rem` for typography to ensure readability on different screens.
    - Apply media queries to adjust font sizes and layout structures for different devices.

**Assignment** 5: Mobile-First Product Page

- Title: Developing a Mobile-First Product Page
- Aim: Design a product page with a mobile-first approach, considering how the layout changes as the screen size increases.
- Skills: Mobile-first design, responsive layout, media queries.
- Sample Idea: Product page with features optimized for mobile and desktop users.
- Programming Tips:
    - Prioritize the most essential content and features for mobile users.
    - Use media queries to rearrange elements and enhance user experience on larger screens.

These assignments are specifically tailored to cover responsive design principles, viewport settings, media queries, breakpoints, and the mobile-first approach. They will help interns gain a strong understanding of creating web pages that work seamlessly across various devices and screen sizes.

## Consider and use the bootstrap framework. Try using downloaded bootstrap Framework as well as cdn goods

**Assignment** 1: Basic HTML and CSS
- Title: Creating a Simple Web Page
- Aim: Build a basic webpage using HTML for structure and simple CSS for styling.
- Skills: HTML structure, inline CSS.
- Sample Idea: Personal homepage with introduction and contact details.
- Programming Tips:
    - Use appropriate HTML tags for better semantic structure.
    - Apply basic CSS styles for headings, paragraphs, and links.

**Assignment** 2: Introduction to Bootstrap
- Title: Building a Bootstrap Starter Page
- Aim: Create a webpage using Bootstrap's basic components and grid system.
- Skills: Bootstrap components, grid layout.
- Sample Idea: Landing page for a startup.
- Programming Tips:
    - Include Bootstrap CSS and JavaScript files via CDN for quick setup.
    - Utilize Bootstrap's container and row classes for responsive layout.

**Assignment** 3: Responsive Navigation with Bootstrap
- Title: Designing a Responsive Navigation Bar
- Aim: Create a responsive navigation bar using Bootstrap's navigation component.
- Skills: Bootstrap navigation component, responsive design.
- Sample Idea: Navigation menu for a restaurant website.
- Programming Tips:
    - Utilize Bootstrap's navbar classes for creating a responsive menu.
    - Use the collapse plugin for the mobile navigation toggle.

**Assignment** 4: Styling with Bootstrap Utilities
- Title: Styling a Feature Section
- Aim: Style a feature section using Bootstrap's utility classes.
- Skills: Bootstrap utility classes, typography.
- Sample Idea: Feature section for showcasing product features.
- Programming Tips:
    - Explore Bootstrap's utility classes for spacing, text alignment, and more.
    - Combine utility classes to achieve desired styling effects.

**Assignment** 5: Advanced Bootstrap Components
- Title: Building a Modal and Carousel
- Aim: Implement a modal popup and image carousel using Bootstrap's components.
- Skills: Bootstrap modal, carousel.
- Sample Idea: Gallery page with a modal for each image.
- Programming Tips:
    - Use Bootstrap's modal and carousel components for interactive features.
    - Customize the content and appearance of modals and carousels.

**Assignment** 6: Bootstrap Form Styling
- Title: Stylish Contact Form with Bootstrap
- Aim: Create a contact form with enhanced styling using Bootstrap's form classes.
- Skills: Bootstrap form classes, form validation.
- Sample Idea: Contact form with interactive validation.

- Programming Tips:
    - Apply Bootstrap's form styling classes for consistent and attractive forms.
    - Incorporate JavaScript for real-time form validation and feedback.

**Assignment** 7: Bootstrap Cards and Layout
- Title: Creating a Card Layout
- Aim: Build a responsive card layout using Bootstrap's card component.
- Skills: Bootstrap cards, responsive layout.
- Sample Idea: Portfolio page with project cards.
- Programming Tips:
    - Use Bootstrap's card component for organizing content into visually appealing cards.
    - Implement a responsive grid layout for arranging multiple cards.

**Assignment** 8: Responsive Blog with Bootstrap
- Title: Developing a Responsive Blog Page
- Aim: Create a responsive blog layout using Bootstrap's grid system and components.
- Skills: Bootstrap grid, blog layout.
- Sample Idea: Blog with articles, images, and sidebar.
- Programming Tips:
    - Utilize Bootstrap's grid system to create a responsive blog layout.
    - Enhance the blog's visual appeal using Bootstrap's styling options.

**Assignment** 9: Bootstrap Navigation and Scrollspy
- Title: Navigation with Scrollspy
- Aim: Design a navigation menu with scrollspy functionality using Bootstrap.
- Skills: Bootstrap navigation, scrollspy.
- Sample Idea: Single-page website with scrolling sections.
- Programming Tips:
    - Implement Bootstrap's scrollspy component to highlight active sections.
    - Customize the navigation menu and the behavior of scrollspy.

**Assignment** 10: Bootstrap Accordion and Tabs
- Title: Implementing an Accordion and Tabs
- Aim: Use Bootstrap's accordion and tab components for content organization.
- Skills: Bootstrap accordion, tabs.
- Sample Idea: FAQ page with collapsible sections.
- Programming Tips:
    - Apply Bootstrap's accordion and nav-tabs components for content organization.
    - Utilize JavaScript to enhance user interactions, such as toggling accordion panels.

**Assignment** 11: Bootstrap Dropdowns and Menus
- Title: Custom Dropdown Menu
- Aim: Create a custom dropdown menu with Bootstrap's dropdown component.
- Skills: Bootstrap dropdown, custom styling.
- Sample Idea: Navigation menu with dropdowns for various sections.
- Programming Tips:
    - Implement a customized dropdown menu using Bootstrap's dropdown component.
    - Customize the appearance and behavior of the dropdown.

**Assignment** 12: Responsive Landing Page with Bootstrap
- Title: Building a Responsive Landing Page
- Aim: Develop a responsive landing page using Bootstrap's components and grid.
- Skills: Responsive design, Bootstrap components.
- Sample Idea: Landing page for a mobile app.
- Programming Tips:
  - Design a mobile-first landing page layout using Bootstrap's components.
  - Ensure the page is responsive and well-optimized for various screen sizes.

**Assignment** 13: Bootstrap Forms and Validation
- Title: Interactive Form with Bootstrap Validation
- Aim: Design an interactive form with Bootstrap's form components and validation.
- Skills: Bootstrap form components, form validation.
- Sample Idea: User registration form with real-time validation.
- Programming Tips:
  - Utilize Bootstrap's form components and validation classes for user-friendly forms.
  - Implement JavaScript to provide real-time validation feedback.

**Assignment** 14: Bootstrap Navbar Customization
- Title: Customizing a Bootstrap Navbar
- Aim: Customize the appearance of a Bootstrap navbar using custom CSS.
- Skills: Bootstrap navbar, custom styling.
- Sample Idea: E-commerce website with a unique navbar design.
- Programming Tips:
  - Use Bootstrap's navbar classes as a foundation and override styles with custom CSS.
  - Experiment with colors, fonts, and layout to create a distinctive navbar.

**Assignment** 15: Bootstrap Modal with Form
- Title: Creating a Modal with Form
- Aim: Implement a modal dialog containing a form using Bootstrap's components.
- Skills: Bootstrap modal, form integration.
- Sample Idea: Login/signup modal for a user dashboard.
- Programming Tips:
  - Create a modal with a form inside using Bootstrap's modal component.
  - Use JavaScript to handle form submission or data processing.

**Assignment** 16: Bootstrap Carousel and Thumbnails
- Title: Carousel with Thumbnails
- Aim: Create a carousel with thumbnail navigation using Bootstrap's carousel component.
- Skills: Bootstrap carousel, thumbnail navigation.
- Sample Idea: Image gallery with carousel and thumbnail navigation.
- Programming Tips:
  - Utilize Bootstrap's carousel component to create an image slideshow.
  - Implement thumbnail navigation using custom JavaScript or Bootstrap's **features**.

**Assignment** 17: Bootstrap Alerts and Badges
- Title: Utilizing Alerts and Badges
- Aim: Integrate Bootstrap's alerts and badges to enhance user feedback.

- Skills: Bootstrap alerts, badges.
- Sample Idea: Notification system with alerts and badge counters.
- Programming Tips:
    - Use Bootstrap's alert and badge components for displaying dynamic content.
    - Combine alerts and badges to create informative user interfaces.

**Assignment** 18: Responsive Pricing Table with Bootstrap
- Title: Designing a Responsive Pricing Table
- Aim: Create a responsive pricing table using Bootstrap's components and grid.
- Skills: Responsive design, Bootstrap grid.
- Sample Idea: Pricing plans for a subscription service.
- Programming Tips:
    - Use Bootstrap's components and grid to structure a visually appealing pricing table.
    - Apply responsive design techniques to ensure a seamless experience across devices.

**Assignment** 19: Bootstrap Tooltips and Popovers
- Title: Adding Tooltips and Popovers
- Aim: Enhance user interactions by adding Bootstrap's tooltips and popovers.
- Skills: Bootstrap tooltips, popovers.
- Sample Idea: Product page with tooltips for feature explanations.
- Programming Tips:
    - Utilize Bootstrap's tooltip and popover components to provide contextual information.
    - Customize tooltip and popover behavior and appearance as needed.

**Assignment** 20: Bootstrap Progress Bars and Spinners
- Title: Visualizing Progress and Spinners
- Aim: Use Bootstrap's progress bars and spinners to visualize loading and progress.
- Skills: Bootstrap progress bars, spinners.
- Sample Idea: Loading animation for a dynamic content section.
- Programming Tips:
    - Incorporate Bootstrap's progress component to display progress and loading indicators.
    - Enhance user experience by integrating spinners during content loading.
-

# HTML/CSS/JS Basics Cheat Sheet:

Creating a Simple Web Page

- HTML Tags: `<html>`, `<head>`, `<meta>`, `<title>`, `<link>`, `<style>`, `<body>`, headings (`<h1>`, `<h2>`, etc.), `<p>`, `<a>`, `<ul>`, `<li>`
- CSS Properties: `color`, `font-family`, `text-align`, `background-color`
- Explanation: Build a basic webpage with structured HTML elements and simple CSS for styling.

Interactive Components with JavaScript

- HTML Tags: `<script>`, `<div>`, `<button>`
- JavaScript Concepts: Event listeners, DOM manipulation
- Explanation: Design an interactive FAQ page using JavaScript for toggling content visibility.

Styling Advanced UI Elements with Grid and Advanced CSS

- HTML Tags: `<section>`, `<div>`, `<ul>`, `<li>`
- CSS Concepts: Grid layout, pseudo-classes, advanced CSS properties
- Explanation: Style a pricing table with detailed CSS styling using Grid and advanced CSS properties.

Interactive Forms and DOM Manipulation

- HTML Tags: `<form>`, form elements (`<input>`, `<textarea>`, `<button>`), `<div>`, `<span>`
- JavaScript Concepts: Form validation, DOM manipulation
- Explanation: Create an interactive contact form with validation using JavaScript for enhanced user experience.

CSS Transitions and Animations

- HTML Tags: `<div>`, `<button>`
- CSS Concepts: Transitions, keyframe animations
- Explanation: Apply CSS transitions and keyframe animations to enhance user interactions.

Responsive Design and Layout with Flexbox and Media Queries

- HTML Tags: `<header>`, `<nav>`, `<section>`, `<article>`, `<footer>`
- CSS Concepts: Flexbox layout, media queries
- Explanation: Develop a responsive webpage layout using Flexbox for navigation and media queries for adaptation.

Working with Images and Media Elements

- HTML Tags: `<img>`, `<video>`, `<figure>`, `<figcaption>`
- CSS Concepts: Responsive images, media embedding
- Explanation: Create an interactive image gallery and embed videos on a webpage to showcase multimedia content.

Advanced Styling and Media Queries for Images

- HTML Tags: `<figure>`, `<figcaption>`, `<picture>`, `<source>`
- CSS Concepts: Media queries, image optimization
- Explanation: Design an artistic image showcase with responsive images and media queries for different screen sizes.

Video Background and Media Controls

- HTML Tags: `<video>`, `<div>`, `<h1>`, `<button>`
- CSS Concepts: Video background, custom media controls
- Explanation: Implement a video background with overlay content and customized controls for a captivating landing page.

Responsive Landing Page

- HTML Tags: `<meta>`, `<header>`, `<nav>`, `<section>`, `<article>`, `<footer>`, viewport meta
- CSS Concepts: Responsive design, viewport settings
- Explanation: Develop a responsive landing page using viewport meta tags and media queries for optimal display on various devices.

# Bootstrap Assignments Cheat Sheet:

Building a Bootstrap Starter Page

- Bootstrap Classes: `.container`, `.row`, `.col-*`
- Explanation: Create a responsive layout using Bootstrap's grid system.

Designing a Responsive Navigation Bar

- Bootstrap Classes: `.navbar`, `.navbar-brand`, `.navbar-nav`, `.nav-item`, `.nav-link`
- Explanation: Develop a responsive navigation bar with Bootstrap's navigation components.

Styling with Bootstrap Utilities

- Bootstrap Utility Classes: Spacing classes (e.g., `.mt-*`, `.pt-*`), text alignment classes (e.g., `.text-center`)
- Explanation: Enhance a feature section using Bootstrap's utility classes for spacing and alignment.

## Building a Modal and Carousel

- Bootstrap Classes: `.modal`, `.carousel`, `.carousel-item`
- Explanation: Implement a modal popup and image carousel using Bootstrap components.

## Bootstrap Form Styling

- Bootstrap Classes: `.form-group`, `.form-control`, `.btn`
- Explanation: Create a contact form with enhanced styling using Bootstrap's form classes.

## Bootstrap Cards and Layout

- Bootstrap Classes: `.card`, `.card-header`, `.card-body`, `.card-title`, `.card-text`
- Explanation: Build a responsive card layout using Bootstrap's card component.

## Responsive Blog with Bootstrap

- Bootstrap Classes: `.container`, `.row`, `.col-*`
- Explanation: Create a responsive blog layout using Bootstrap's grid system and components.

## Bootstrap Navigation and Scrollspy

- Bootstrap Classes: `.navbar`, `.nav`, `.nav-item`, `.nav-link`, `.scrollspy`
- Explanation: Develop a navigation bar with scrollspy functionality using Bootstrap.

## Bootstrap Accordion and Tabs

- Bootstrap Classes: `.accordion`, `.card`, `.nav`, `.nav-item`, `.nav-link`
- Explanation: Implement an accordion and tab components for content organization.

## Bootstrap Dropdowns and Menus

- Bootstrap Classes: `.dropdown`, `.dropdown-toggle`, `.dropdown-menu`
- Explanation: Create a custom dropdown menu with Bootstrap's dropdown component.

## Bootstrap Assignments Cheat Sheet (Continued):

Bootstrap Alerts and Badges

- Bootstrap Classes: `.alert`, `.badge`
- Explanation: Use Bootstrap's alert and badge components for displaying dynamic content.

Responsive Pricing Table with Bootstrap

- Bootstrap Classes: `.container`, `.row`, `.col-*`
- Explanation: Build a responsive pricing table using Bootstrap's components and grid.

Bootstrap Tooltips and Popovers

- Bootstrap Classes: `.tooltip`, `.popover`
- Explanation: Enhance user interactions by adding Bootstrap's tooltips and popovers.

Bootstrap Progress Bars and Spinners

- Bootstrap Classes: `.progress`, `.progress-bar`, `.spinner-border`
- Explanation: Use Bootstrap's progress bars and spinners to visualize loading and progress.

Bootstrap Carousel and Thumbnails

- Bootstrap Classes: `.carousel`, `.carousel-inner`, `.carousel-item`, `.carousel-control-prev`, `.carousel-control-next`
- Explanation: Create a carousel with thumbnail navigation using Bootstrap's carousel component.

Responsive Navigation with Bootstrap

- Bootstrap Classes: `.navbar`, `.navbar-brand`, `.navbar-nav`, `.nav-item`, `.nav-link`
- Explanation: Design a responsive navigation bar using Bootstrap's navigation component.

Styling with Bootstrap Utilities

- Bootstrap Utility Classes: Spacing classes (e.g., `.mt-*`, `.pt-*`), text alignment classes (e.g., `.text-center`)
- Explanation: Style a feature section using Bootstrap's utility classes.

Advanced Bootstrap Components

- Bootstrap Classes: `.modal`, `.carousel`, `.carousel-item`
- Explanation: Implement a modal popup and image carousel using Bootstrap's components.

Bootstrap Form Styling

- Bootstrap Classes: `.form-group`, `.form-control`, `.btn`
- Explanation: Create a contact form with enhanced styling using Bootstrap's form classes.

Bootstrap Cards and Layout

- Bootstrap Classes: `.card`, `.card-header`, `.card-body`, `.card-title`, `.card-text`
- Explanation: Build a responsive card layout using Bootstrap's card component.

Responsive Blog with Bootstrap

- Bootstrap Classes: `.container`, `.row`, `.col-*`
- Explanation: Create a responsive blog layout using Bootstrap's grid system and components.

Bootstrap Navigation and Scrollspy

- Bootstrap Classes: `.navbar`, `.nav`, `.nav-item`, `.nav-link`, `.scrollspy`
- Explanation: Develop a navigation bar with scrollspy functionality using Bootstrap.

Bootstrap Accordion and Tabs

- Bootstrap Classes: `.accordion`, `.card`, `.nav`, `.nav-item`, `.nav-link`
- Explanation: Implement accordion and tab components for content organization.

Bootstrap Dropdowns and Menus

- Bootstrap Classes: `.dropdown`, `.dropdown-toggle`, `.dropdown-menu`
- Explanation: Create a custom dropdown menu with Bootstrap's dropdown component.

Responsive Landing Page with Bootstrap

- Bootstrap Classes: `.container`, `.row`, `.col-*`
- Explanation: Develop a responsive landing page using Bootstrap's components and grid.

Assignment 36: Bootstrap Forms and Validation

- Bootstrap Classes: `.form-group`, `.form-control`, `.is-invalid`, `.invalid-feedback`
- Explanation: Create an interactive form with Bootstrap's form components and validation classes.

Bootstrap Navbar Customization

- Bootstrap Classes: `.navbar`, `.navbar-brand`, `.navbar-nav`, `.nav-item`, `.nav-link`
- Explanation: Customize the appearance of a Bootstrap navbar using custom CSS.

Bootstrap Modal with Form

- Bootstrap Classes: `.modal`, `.modal-dialog`, `.modal-content`, `.modal-header`, `.modal-body`, `.modal-footer`, `.close`
- Explanation: Implement a modal dialog containing a form using Bootstrap's components.

Bootstrap Carousel and Thumbnails

- Bootstrap Classes: `.carousel`, `.carousel-inner`, `.carousel-item`, `.carousel-control-prev`, `.carousel-control-next`
- Explanation: Create a carousel with thumbnail navigation using Bootstrap's carousel component.

Bootstrap Alerts and Badges

- Bootstrap Classes: `.alert`, `.badge`
- Explanation: Use Bootstrap's alert and badge components for dynamic content and user feedback.