Training Day 14 Report:

Date: 18 June 2024

Location: Science & Technology Entrepreneurs' Park

Project Title: Bootstrap 5 Images, Alerts, Buttons, Progress Bars, and Spinners

On Day 14, we learned about important Bootstrap 5 components like images, alerts, buttons, progress bars, and spinners. These components help make websites interactive, visually pleasing, and user-friendly.

Project Objectives:

- Understand how to style images using Bootstrap.
- Learn to create alert messages to show notifications.
- Explore different styles of Bootstrap buttons.
- Study progress bars to show task progress.
- Learn how to use spinners as loading indicators.

2.4.9 Bootstrap 5 Images

Bootstrap provides classes to easily style images with rounded corners, circles, or thumbnails.

Rounded Corners

Add the .rounded class to give an image soft rounded corners.

Example:

```
<img src="cinqueterre.jpg" class="rounded" alt="Cinque Terre">
```

Circle Image

Use the .rounded-circle class to make the image circular.

Example:

```
<img src="cinqueterre.jpg" class="rounded-circle" alt="Cinque Terre">
```

Thumbnail Image

Add .img-thumbnail to give the image a border and padding, making it look like a photo thumbnail.

Example:

```
<img src="cinqueterre.jpg" class="img-thumbnail" alt="Cinque Terre">
```

2.4.10 Bootstrap 5 Alerts

Alerts show important messages to users, like success, warning, or error notifications.

Basic Alerts

Use the .alert class with a contextual class to create alerts:

- .alert-success (green)
- .alert-danger (red)
- .alert-info (blue)
- .alert-warning (orange)

Example:

```
<div class="alert alert-success">
    <strong>Success!</strong> Indicates a successful action.
</div>
```

Alert Links

Links inside alerts can use .alert-link to match the alert style.

Example:

```
<div class="alert alert-success">
  <strong>Success!</strong> You should <a href="#" class="alert-link">read this
message</a>.
</div>
```

Closing Alerts

Add .alert-dismissible and a close button to allow users to close the alert.

Example:

```
<div class="alert alert-success alert-dismissible">
  <button type="button" class="btn-close" data-bs-dismiss="alert"></button>
  <strong>Success!</strong> This alert can be closed.
</div>
```

Animated Alerts

Add .fade and .show classes to smoothly fade out alerts when closed.

Example:

```
<div class="alert alert-danger alert-dismissible fade show">
  <button type="button" class="btn-close" data-bs-dismiss="alert"></button>
  <strong>Danger!</strong> This is an animated alert.
</div>
```

2.4.11 Bootstrap Buttons

Bootstrap offers many button styles using the .btn class with color and size options.

Button Colors

Some examples of button color classes:

- .btn-primary (blue)
- .btn-secondary (gray)
- .btn-success (green)
- .btn-danger (red)
- .btn-warning (orange)
- .btn-info (light blue)
- .btn-dark (dark gray)
- .btn-light (light gray)
- .btn-link (looks like a link)

Outline Buttons

Use .btn-outline-* classes to create buttons with colored borders and transparent backgrounds.

Example:

```
<button class="btn btn-outline-primary">Primary Outline/button>
```

Button Sizes

Change button sizes with .btn-lg (large) or .btn-sm (small).

Block Level Buttons

Use .d-grid on the container to make buttons stretch full width.

Add .gap-* classes to add spacing between multiple buttons.

Active and Disabled Buttons

```
Use .active class to show an active state.
```

Use disabled attribute or .disabled class to disable buttons.

Buttons with Spinners

Add spinners inside buttons to show loading state.

Example:

```
<button class="btn btn-primary">
  <span class="spinner-border spinner-border-sm"></span> Loading...
</button>
```

Disable the button while loading with the disabled attribute.

2.4.12 Bootstrap 5 Progress Bars

Progress bars show how far a task has progressed.

Basic Progress Bar

Use .progress container and .progress-bar to create a bar.

Example:

```
<div class="progress">
  <div class="progress-bar" style="width: 70%"></div>
</div>
```

Progress Bar Height

Default height is 1rem. Change height using inline style:

```
<div class="progress" style="height: 20px">...</div>
```

Progress Bar Labels

Add text inside the progress bar:

```
<div class="progress-bar" style="width: 70%">70%</div>
```

Colored Progress Bars

Add background color classes like .bg-success , .bg-info , .bg-warning , .bg-danger .

Striped and Animated Bars

Add .progress-bar-striped for stripes.

Add .progress-bar-animated for moving stripes.

Multiple Progress Bars

Stack multiple .progress-bar elements inside one .progress .

Example:

```
<div class="progress">
  <div class="progress-bar bg-success" style="width:40%">Free Space</div>
  <div class="progress-bar bg-warning" style="width:10%">Warning</div>
  <div class="progress-bar bg-danger" style="width:20%">Danger</div>
  </div>
```

2.4.13 Bootstrap 5 Spinners

Spinners show loading animations.

Basic Spinner

Use .spinner-border for spinning effect.

```
<div class="spinner-border"></div>
```

Colored Spinners

Add text color classes to change spinner color:

- .text-primary
- text-success
- .text-info
- .text-warning
- .text-danger
- .text-secondary
- .text-dark
- .text-light

Example:

```
<div class="spinner-border text-primary"></div>
<div class="spinner-border text-success"></div>
```

Growing Spinners

Use .spinner-grow for pulsing effect.

```
<div class="spinner-grow text-info"></div>
```

Spinner Sizes

Add .spinner-border-sm or .spinner-grow-sm for smaller spinners.

Spinner Inside Buttons

Put spinners inside buttons to indicate loading:

```
<button class="btn btn-primary">
    <span class="spinner-border spinner-border-sm"></span> Loading..
</button>
```

Disable button when loading:

```
<button class="btn btn-primary" disabled>
  <span class="spinner-grow spinner-grow-sm"></span> Loading..
</button>
```

Summary:

On Day 14, I learned how to use Bootstrap 5 to style images, create alerts, design different buttons, add progress bars, and show spinners. These components improve the look and feel of websites and make them interactive. I practiced examples with simple code and now feel confident using these Bootstrap elements in my projects.