Task 6-Components (Gemini)

**CSS Components: Building Blocks for Modular Design**

In CSS, components are self-contained, reusable pieces of code that encapsulate specific styles. They promote modularity, maintainability, and consistency in your projects. By breaking down your styles into smaller, reusable components, you can reduce code duplication, improve organization, and streamline the development process.

**Creating a Card Component with Sass**

Here's a simple Sass component for a card:

// card.scss

.card {

  border: 1px solid #ccc;

  border-radius: 5px;

  padding: 20px;

  .card-image {

    width: 100%;

    margin-bottom: 10px;

  }

  .card-title {

    font-size: 18px;

    font-weight: bold;

    margin-bottom: 5px;

  }

  .card-description {

    color: #666;

    margin-bottom: 10px;

  }

  .card-button {

    background-color: #007bff;

    color: #fff;

    border: none;

    padding: 10px 20px;

    border-radius: 5px;

    cursor: pointer;

  }

}

**Compiled CSS:**

.card {

  border: 1px solid #ccc;

  border-radius: 5px;

  padding: 20px;

}

.card .card-image {

  width: 100%;

  margin-bottom: 10px;

}

.card .card-title {

  font-size: 18px;

  font-weight: bold;

  margin-bottom: 5px;

}

.card .card-description {

  color: #666;

  margin-bottom: 10px;

}

.card .card-button {

  background-color: #007bff;

  color: #fff;

  border: none;

  padding: 10px 20px;

  border-radius: 5px;

  cursor: pointer;

}

**Structuring a Sass Project with Components**

To organize your Sass components effectively, you can create a components directory within your project's scss folder. Each component can be placed in its own file within this directory. For example:

project/

scss/

components/

card.scss

button.scss

navbar.scss

main.scss

**Importing and Using Components**

In your main Sass file (main.scss), you can import the components you need:

SCSS

@import 'components/card';

@import 'components/button';

@import 'components/navbar';

**Then, you can use these components in your HTML:**

  <div class="card">

    <img src="image.jpg" alt="Card Image" class="card-image">

    <h2 class="card-title">Card Title</h2>

    <p class="card-description">Card Description</p>

    <button class="card-button">Learn More</button>

  </div>

By using CSS components, you can create well-structured, reusable, and maintainable stylesheets. This approach promotes efficient development and helps you build consistent and scalable web applications.