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Aim: Implementation of CSS

THEORY:

1. What is CSS?

- Styles HTML elements
- Controls layout, colors, fonts
- Makes websites responsive

2. Three Ways to Apply CSS

A. Inline CSS

- Added directly to HTML tags
- Highest priority
- Example: `<p style="color:red;">Red text</p>`

Pros:

- ✓ Quick to apply
- ✓ Overrides other styles

Cons:

- X Hard to maintain
- X Not reusable

B. Internal CSS

- Placed in <style> tag in <head>
- Applies to single page
- Example:

```
<style> p { color: blue; } </style>
```

Pros:

- ✓ Better than inline
- ✓ Good for small projects

Cons:

- ✗ Not for multiple pages

C. External CSS

- Separate .css file
- Linked with <link> tag
- Best for large sites
- Example:

```
<link rel="stylesheet" href="style.css">
```

Pros:

- ✓ Easy maintenance
- ✓ Faster loading
- ✓ Reusable

Cons:

- ✗ Extra file needed

3. Which One Wins?

Priority Order:

1. Inline CSS (strongest)
2. Internal CSS

3. External CSS (weakest)

Best Practices

- Use External CSS for big projects
- Use Inline only for quick fixes
- Internal for testing/small pages

CODE:

index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Login Form</title>
    <link
      href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.m
in.css"
      rel="stylesheet"
    />
    <style>
      :root {
        --dark-bg: #212121;
        --darker-bg: #262626;
        --card-bg: #333333;
        --text-color: #ccc;
        --primary-color: #ccc;
        --hover-color: #555555;
      }
      body {
        min-height: 100vh;
        display: flex;
        flex-direction: column;
        background-color: var(--dark-bg);
        color: var(--text-color);
      }
      .navbar {
```

```

        background-color: var(--darker-bg) !important;
    }
    .navbar-brand,
    .nav-link {
        color: var(--text-color) !important;
    }
    .nav-link:hover {
        color: var(--primary-color) !important;
    }
    .navbar-toggler {
        border-color: rgba(255, 255, 255, 0.1);
    }
    .navbar-toggler-icon {
        background-image: url("data:image/svg+xml,%3csvg
xmlns='http://www.w3.org/2000/svg' viewBox='0 0 30 30'%3e%3cpath
stroke='rgba%28255, 255, 255, 0.75%29' stroke-linecap='round' stroke-
miterlimit='10' stroke-width='2' d='M4 7h22M4 15h22M4 23h22'/%3e%3c/svg%3e");
    }
    .form-container {
        flex: 1;
        display: flex;
        align-items: center;
        justify-content: center;
        padding: 2rem;
    }

    .login-form {
        width: 100%;
        max-width: 600px;
        padding: 2rem;
        border-radius: 10px;
        box-shadow: 0 10px 20px rgba(0, 0, 0, 0.3);
        background-color: var(--card-bg);
        border: 1px solid rgba(255, 255, 255, 0.1);
    }
    .login-title {
        text-align: center;
        margin-bottom: 1.5rem;
        color: var(--primary-color);
        font-weight: 600;
    }
    .form-control,

```

```

.form-select {
  background-color: rgba(0, 0, 0, 0.2);
  border-color: rgba(255, 255, 255, 0.1);
  color: var(--text-color);
}
.form-control:focus,
.form-select:focus {
  background-color: rgba(0, 0, 0, 0.3);
  border-color: var(--primary-color);
  color: var(--text-color);
  box-shadow: 0 0 0 0.25rem rgba(76, 201, 240, 0.25);
}
.form-label {
  color: var(--text-color);
}
.btn-primary {
  background-color: var(--primary-color);
  border-color: var(--primary-color);
  color: #111;
}
.btn-primary:hover {
  background-color: var(--hover-color);
  border-color: var(--hover-color);
}
.form-check-input {
  background-color: rgba(0, 0, 0, 0.2);
  border-color: rgba(255, 255, 255, 0.1);
}
.form-check-input:checked {
  background-color: var(--primary-color);
  border-color: var(--primary-color);
}
</style>
</head>
<body>
  <nav class="navbar navbar-expand-lg navbar-dark">
    <div class="container-fluid">
      <a class="navbar-brand" href="#">INPEXP2</a>
      <button
        class="navbar-toggler"
        type="button"

```

```

        data-bs-toggle="collapse"
        data-bs-target="#navbarNav"
        aria-controls="navbarNav"
        aria-expanded="false"
        aria-label="Toggle navigation"
    >
        <span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse" id="navbarNav">
    <ul class="navbar-nav">
        <li class="nav-item">
            <a
                class="nav-link active"
                aria-current="page"
                href="#"
                >Home</a>
            >
        </li>
        <li class="nav-item">
            <a class="nav-link active" href="#">Features</a>
        </li>
        <li class="nav-item">
            <a class="nav-link active" href="#">About</a>
        </li>
        <li class="nav-item">
            <a class="nav-link active" href="#">Login</a>
        </li>
    </ul>
</div>
</div>
</nav>
<div class="form-container">
    <div class="login-form">
        <h2 class="login-title">Register</h2>
        <form class="row g-3">
            <div class="col-md-6">
                <label for="inputEmail4" class="form-label">
                    Email</label>
                >
                <input
                    type="email"

```

```

        class="form-control"
        id="inputEmail4"
    />
</div>
<div class="col-md-6">
    <label for="inputPassword4" class="form-label"
        >Password</label>
    >
    <input
        type="password"
        class="form-control"
        id="inputPassword4"
    />
</div>
<div class="col-12">
    <label for="inputAddress" class="form-label"
        >Address</label>
    >
    <input
        type="text"
        class="form-control"
        id="inputAddress"
        placeholder="1234 Main St"
    />
</div>
<div class="col-12">
    <label for="inputAddress2" class="form-label"
        >Address 2</label>
    >
    <input
        type="text"
        class="form-control"
        id="inputAddress2"
        placeholder="Apartment, studio, or floor"
    />
</div>
<div class="col-md-6">
    <label for="inputCity" class="form-label">City</label>
    <input
        type="text"
        class="form-control"

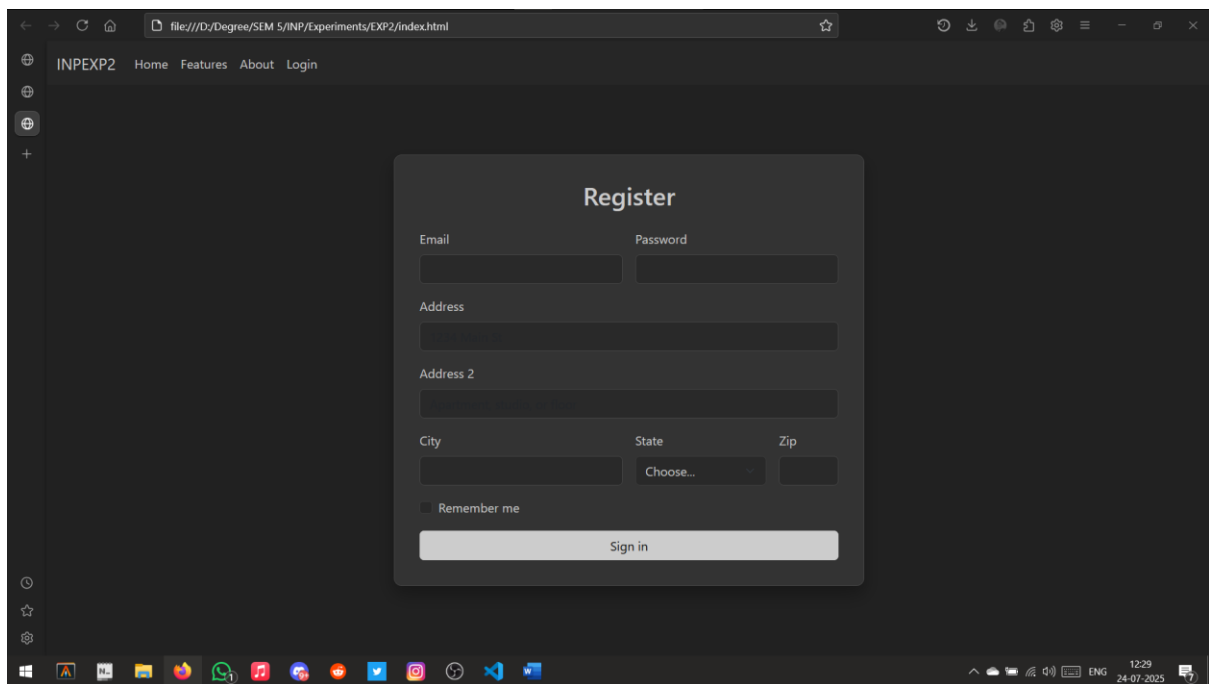
```

```

        id="inputCity"
    />
</div>
<div class="col-md-4">
    <label for="inputState" class="form-label">State</label>
    <select id="inputState" class="form-select">
        <option selected>Choose...</option>
        <option>...</option>
    </select>
</div>
<div class="col-md-2">
    <label for="inputZip" class="form-label">Zip</label>
    <input type="text" class="form-control" id="inputZip" />
</div>
<div class="col-12">
    <div class="form-check">
        <input
            class="form-check-input"
            type="checkbox"
            id="gridCheck"
        />
        <label class="form-check-label" for="gridCheck">
            Remember me
        </label>
    </div>
</div>
<div class="col-12">
    <button type="submit" class="btn btn-primary w-100">
        Sign in
    </button>
</div>
</form>
</div>
</div>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js">
</script>
</body>
</html>

```

OUTPUT:



CONCLUSION:

This experiment covered CSS theory (inline, internal, external) and Bootstrap integration, including styling text and creating responsive forms. We compared manual CSS with Bootstrap's pre-built components, learning efficient styling approaches. The practical implementation enhanced our understanding of modern web design techniques.