



Department of Computer Science and Engineering (Data Science)

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Subject: Web Engineering Laboratory

Experiment 2

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(CSS)

Aim: Implement the following using CSS:

1. Design a web page using External or Embedded Style Sheet.
2. Design a responsive web page using media queries and CSS3.
3. Design a web page using Bootstrap.
4. Design the admission form using Bootstrap.

Theory:

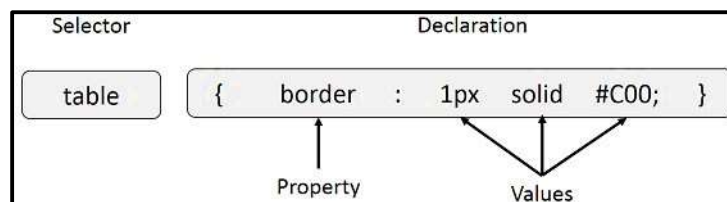
CSS is used to control the style of a web document in a simple and easy way.

Cascading Style Sheets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable.

A CSS comprises of style rules that are interpreted by the browser and then applied to the corresponding elements in your document. A style rule is made of three parts –

- **Selector** – A selector is an HTML tag at which a style will be applied. This could be any tag like <h1> or <table> etc.
- **Property** – A property is a type of attribute of HTML tag. Put simply, all the HTML attributes are converted into CSS properties. They could be color, border etc.
- **Value** – Values are assigned to properties. For example, color property can have value either red or #F1F1F1 etc.

CSS Style Rule Syntax as follows - selector {property: value}



Example: `table{ border :1px solid #C00; }`

Here table is a selector and border is a property and given value 1px solid #C00 is the value of that property.

The Type Selectors

This is the same selector we have seen above. Again, one more example to give a color to all level 1 headings –



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```
h1 {  
  color: #36CFFF;  
}
```

The Universal Selectors

Rather than selecting elements of a specific type, the universal selector quite simply matches the name of any element type –

```
* {  
  color: #000000;  
}
```

This rule renders the content of every element in our document in black.

The Descendant Selectors

Suppose you want to apply a style rule to a particular element only when it lies inside a particular element. As given in the following example, style rule will apply to `` element only when it lies inside `` tag.

```
ul em {  
  color: #000000;  
}
```

The Class Selectors

You can define style rules based on the class attribute of the elements. All the elements having that class will be formatted according to the defined rule.

```
.black {  
  color: #000000;  
}
```

This rule renders the content in black for every element with class attribute set to *black* in our document. You can make it a bit more particular. For example –

```
h1.black {  
  color: #000000;  
}
```

This rule renders the content in black for only `<h1>` elements with class attribute set to *black*.

You can apply more than one class selectors to given element. For example –

```
<p class = "center bold">  
  This para will be styled by the classes center and bold.  
</p>
```

The ID Selectors

You can define style rules based on the *id* attribute of the elements. All the elements having that *id* will be formatted according to the defined rule.



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```
#black {  
  color: #000000;  
}
```

This rule renders the content in black for every element with *id* attribute set to *black* in our document. You can make it a bit more particular. For example –

```
h1#black {  
  color: #000000;  
}
```

This rule renders the content in black for only `<h1>` elements with *id* attribute set to *black*.

The true power of *id* selectors is when they are used as the foundation for descendant selectors, For example –

```
#black h2 {  
  color: #000000;  
}
```

In this example all level 2 headings will be displayed in black color when those headings will lie with in tags having *id* attribute set to *black*.

The Child Selectors

You have seen the descendant selectors. There is one more type of selector, which is very similar to descendants but have different functionality. Consider the following example –

```
body > p {  
  color: #000000;  
}
```

This rule will render all the paragraphs in black if they are direct child of `<body>` element. Other paragraphs put inside other elements like `<div>` or `<td>` would not have any effect of this rule.

The Attribute Selectors

You can also apply styles to HTML elements with particular attributes. The style rule below will match all the input elements having a type attribute with a value of *text* –

```
input[type = "text"] {  
  color: #000000;  
}
```

Multiple Style Rules

You may need to define multiple style rules for a single element. You can define these rules to combine multiple properties and corresponding values into a single block as defined in the following example –

```
h1 {  
  color: #36C;
```



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```
font-weight: normal;
letter-spacing: .4em;
margin-bottom: 1em;
text-transform: lowercase;
}
```

Grouping Selectors

You can apply a style to many selectors if you like. Just separate the selectors with a comma, as given in the following example –

```
h1, h2, h3 {
  color: #36C;
  font-weight: normal;
  letter-spacing: .4em;
  margin-bottom: 1em;
  text-transform: lowercase;
}
```

You can combine the various *id* selectors together as shown below –

```
#content, #footer, #supplement {
  position: absolute;
  left: 510px;
  width: 200px;
}
```

CSS Media Queries

CSS media queries: a property of CSS that can make some amends to the web page by looking at the device.

The syntax for CSS media queries resembles TestNG annotations which as a novice web developer:

The media query can be implemented by the word “media” as follows:

@media <media_type> connector (<query>)

As an example:

```
@media only screen and (max-width: 480px) {
  /* CSS rules to apply */
}
@media only screen and (max-width: 480px) {
  /* CSS rules to apply */
}
```

This media query will look for screens (“only screen” as written) with a max-width of 480px. If it finds one, the conditions will be executed and the changes will be made to the HTML code.

For applying just the media type and not the media expressions (queries), the following values are accepted:



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```
all
print
screen
speech
@media print {
  .heading {
    font-size: 12px;
  }
}
```

```
@media print {
  .heading {
    font-size: 12px;
  }
}
```

The above query will make the content with the class name heading to a font-size of 12 pixels when the page needs to be printed.

Width and Height Media Feature Rules

The first media feature rule to consider is to check the width and height of the viewport. Width operations can be checked with the “width” property, “max-width” and “min-width” property for bottleneck values.

Example of max-width media feature rule:

```
@media screen and (max-width: 840px){
p {
  color: red;
}
}
```

The complete code for achieving responsive design through media rule can be written as:

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
  <meta charset="utf-8">
  <title>Media Queries</title>
  <style>
    @media screen and (max-width: 840px){
      p {
        color: red;
      }
    }
  </style>
</head>
<body>
```



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```
<center>
  <p>Checking Media Rules</p>
</center>
</body>
</html>
```

Orientation in CSS Media Query

The orientation of a device is one of the major problems that break the responsiveness of your website. Responsiveness can never be achieved if the web application cannot understand the orientation and respond accordingly. As in media queries, knowing the orientation of the device can help us organise the content differently resulting in more responsiveness.

Orientation media rule can be applied as following example:

```
@media (orientation: landscape){
  p {
    color: red;
    font-size: 36px;
  }
}
```

Connectors in Media Rules

A lot of the time, just one media rule is not enough for achieving responsiveness. What if we want to implement the media rule on specific devices and with specific conditions? For such requirements, we make use of connectors (logical) in media rules. The connectors take three values in CSS media queries:

and
or
not

These connectors have the same meaning as they do in the boolean expressions and in programming languages. To apply an “and” connector, the following code:

```
@media (orientation: landscape) and (min-width: 1080px){
  p {
    color: red;
    font-size: 36px;
  }
}
```

Code and Output:

1. Design a web page using External or Embedded Style Sheet.

```
<!DOCTYPE html>
```

```
<html>
```



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```
<head>
  <title>Simple web Development Template</title>

  <style>
    * {
      margin: 0;
      padding: 0;
    }

    .navbar {
      display: flex;
      align-items: center;
      justify-content: center;
      position: sticky;
      top: 0;
      cursor: pointer;
    }

    .background {
      background: black;
      background-blend-mode: darken;
      background-size: cover;
    }

    .nav-list {
      width: 70%;
      display: flex;
      align-items: center;
    }

    .nav-list li {
      list-style: none;
      padding: 26px 30px;
    }

    .nav-list li a {
      text-decoration: none;
      color: white;
    }

    .nav-list li a:hover {
      color: grey;
    }
```



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```
}  
  
.rightnav {  
    width: 30%;  
    text-align: right;  
}  
  
#search {  
    padding: 5px;  
    font-size: 17px;  
    border: 2px solid grey;  
    border-radius: 9px;  
}  
  
.firstsection {  
    background-color: green;  
    height: 400px;  
}  
  
.secondsection {  
    background-color: blue;  
    height: 400px;  
}  
  
.box-main {  
    display: flex;  
    justify-content: center;  
    align-items: center;  
    color: black;  
    max-width: 80%;  
    margin: auto;  
    height: 80%;  
}  
  
.firsthalf {  
    width: 100%;  
    display: flex;  
    flex-direction: column;  
    justify-content: center;  
}  
  
.secondhalf {  
    width: 30%;
```




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```
}

.secondhalf img {
    width: 70%;
    border: 4px solid white;
    border-radius: 150px;
    display: block;
    margin: auto;
}

.text-big {
    font-family: 'Piazzolla', serif;
    font-weight: bold;
    font-size: 35px;
}

.text-small {
    font-size: 18px;
}

.btn {
    padding: 8px 20px;
    margin: 7px 0;
    border: 2px solid white;
    border-radius: 8px;
    background: none;
    color: white;
    cursor: pointer;
}

.btn-sm {
    padding: 6px 10px;
    vertical-align: middle;
}

.section {
    height: 400px;
    display: flex;
    align-items: center;
    justify-content: center;
    max-width: 90%;
    margin: auto;
}
```



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```
.section-Left {
    flex-direction: row-reverse;
}

.paras {
    padding: 0px 65px;
}

.thumbnail img {
    width: 250px;
    border: 2px solid black;
    border-radius: 26px;
    margin-top: 19px;
}

.center {
    text-align: center;
}

.text-footer {
    text-align: center;
    padding: 30px 0;
    font-family: 'Ubuntu', sans-serif;
    display: flex;
    justify-content: center;
    color: white;
}
</style>
</head>

<body>
<nav class="navbar background">
    <ul class="nav-list">
        <li><a href="#web">Web Technology</a></li>
        <li><a href="#program">C Programming</a></li>
        <li><a href="#course">Courses</a></li>
    </ul>

    <div class="rightNav">
        <input type="text" name="search" id="search">
        <button class="btn btn-sm">Search</button>
    </div>
```



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</nav>

<section class="firstsection">

<div class="box-main">

<div class="firstHalf">

<h1 class="text-big" id="web">Web Technology</h1>

<p class="text-small">HTML stands for HyperText Markup

Language. It is used to design web pages using a markup language. HTML is the combination of Hypertext and Markup language. Hypertext defines the between the web pages. A markup language is used to define the text document within tag which defines the structure of web pages. HTML is a markup language that is used by the browser to manipulate text, images, and other content to display it in the required format. </p>

</div>

</div>

</section>

<section class="secondsection">

<div class="box-main">

<div class="firstHalf">

<h1 class="text-big" id="program">C Programming</h1>

<p class="text-small">C is a procedural programming language. It was initially developed by Dennis Ritchie as a system programming language to write operating system. The main features of C language include low-level access to memory, simple set of keywords, and clean style, these features make C language suitable for system programming like operating system or compiler development.

</p>

</div>

</div>

</section>

<section class="section">

<div class="paras">

<h1 class="sectionTag text-big">Java</h1>

<p class="sectionSubTag text-small"> Java has been one of the most popular programming language for many years. Java is Object Oriented. However it is not considered as pure object oriented as it provides support for primitive data types (like int, char, etc) The Java codes are first compiled into byte code (machine independent code). Then the byte code is run on Java Virtual Machine (JVM) regardless of the underlying architecture. p>

</div>

</section>

<footer class="background">

<p class="text-footer">Copyright ©-All rights are reserved</p>



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</footer>

</body>

</html>



2. Design a responsive web page using media queries and CSS3.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
body {  
    background-color: blue;  
}
```

```
@media only screen and (min-width: 500px)  
and (max-width: 700px) {  
    body {  
        background-color: red;  
    }  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<p>
```

On devices with minimum width of 500px
and maximum width of 700px, the background
color will be black

```
</p>
```

```
<p>
```

On the other hand, devices with less than the
minimum width of 500px will have the
body be displayed in blue

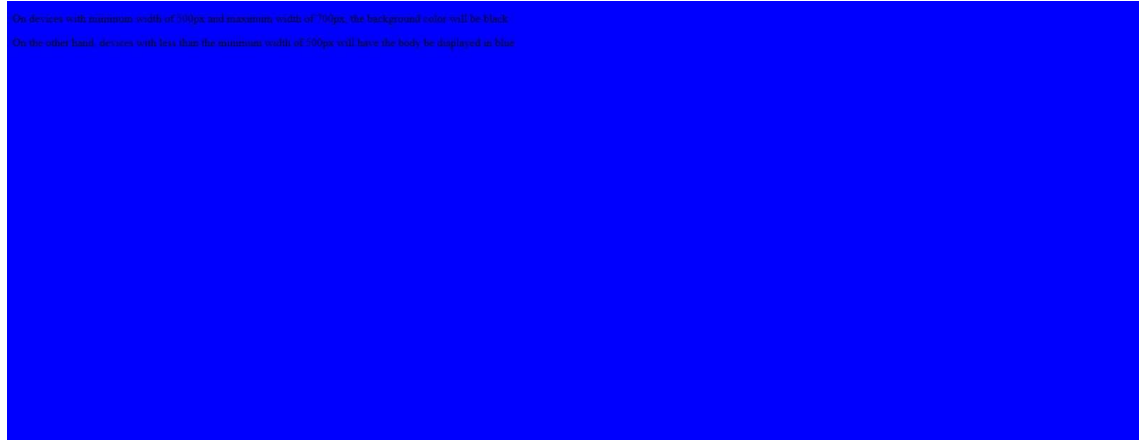


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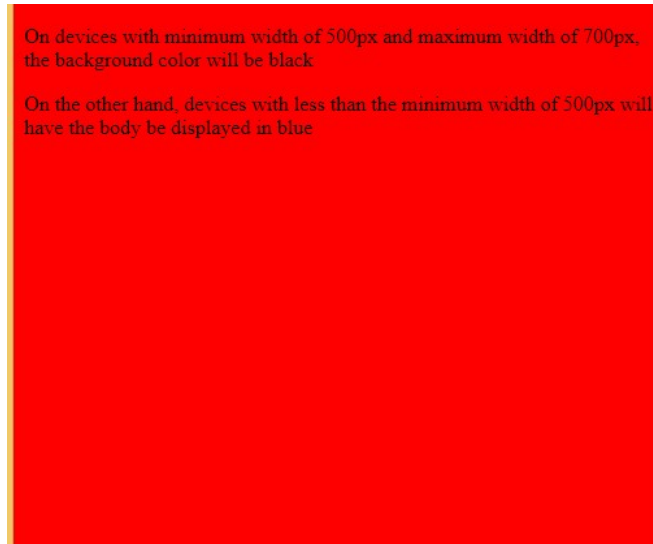
</p>
</body>

</html>

On devices with minimum width of 200px and maximum width of 700px, the background color will be black.
On the other hand, devices with less than the minimum width of 500px will have the body be displayed in blue.



On devices with minimum width of 500px and maximum width of 700px, the background color will be black.
On the other hand, devices with less than the minimum width of 500px will have the body be displayed in blue.



3. Design a web page using Bootstrap.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <!-- Required meta tags -->
  <meta charset="utf-8" />
  <meta name="viewport"
    content="width=device-width,
    initial-scale=1" />

  <!-- Bootstrap CSS -->
  <link
```



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```

    href=
    "https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta2/dist/css/bootstrap.min.css"
    rel="stylesheet"
    integrity=
    "sha384-
    BmbxuPwQa2lc/FVzBcNJ7UAyJxM6wuwqIj61tLrc4wSX0szH/Ev+nYRRuWlolflfl"
    crossorigin="anonymous"
  />
  <link rel="stylesheet"
    href="style.css" />
  <link rel="preconnect"
    href="https://fonts.gstatic.com" />
  <link
    href=
    "https://fonts.googleapis.com/css2?family=Roboto+Condensed&display=swap"
    rel="stylesheet"
  />
  <title>GFG</title>
</head>
<body>
  <section id="navbar">
    <nav class="navbar navbar-expand-lg navbar-light">
      <div class="container-fluid">
        <a class="navbar-brand" href="#">
          DJSCE
        </a>
        <button
          class="navbar-toggler"
          type="button"
          data-bs-toggle="collapse"
          data-bs-target="#navbarSupportedContent"
          aria-controls="navbarSupportedContent"
          aria-expanded="false"
          aria-label="Toggle navigation"
        >
          <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse"
          id="navbarSupportedContent">
          <ul class="navbar-nav m-auto">
            <li class="nav-item">
              <a class="nav-link active"
                aria-current="page"
                href="#">Home</a>
            </li>
            <li class="nav-item">

```



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```

        <a class="nav-link"
        href="#service">Services</a>
    </li>
    <li class="nav-item">
        <a class="nav-link"
        href="#about">About Us</a>
    </li>
    <li class="nav-item">
        <a class="nav-link"
        href="#product">Products</a>
    </li>
    <li class="nav-item">
        <a class="nav-link"
        href="#social">Contact Us</a>
    </li>
</ul>
</div>
</div>
</nav>
</section>

<!-- banner -->
<section id="banner">
<div class="container-fluid" id="banner-container">
    <div class="row" id="banner-row">
        <div class="col-md-6" id="banner-col">
            <h3>
            BEST PROFESSIONAL WEBSITE DESIGN
            SOFTWARE DEVELOPMENT COMPANY
            </h3>

<p>

            The fastest way to grow your business with the leader in
            Technology

            </p>

            <div class="d-grid gap-2 d-md-flex justify-content-center">
                <a class="btn btn-primary"
                href="#"
                role="button">Contact Us</a>
            </div>
        </div>
        <div class="col-md-6" id="banner-col2">
            
</div>
</div>
</div>
</section>

<!-- services -->
<section id="service">
<h1 class="text-center">SERVICES</h1>
<div class="container-fluid" id="service-container">
  <div class="row" id="banner-row">
    <div class="col-md-4" id="service-col1">
      
      <h3>Website Design</h3>
    </div>
    <div class="col-md-4" id="service-col2">
      
      <h3>Bulk SMS</h3>
    </div>
    <div class="col-md-4" id="service-col3">
      <h3>
        User Experience Design.
        Website Content Strategy.
        Cross Browser
        and Platform Testing.
      </h3>
      <ol>
        <li>1. Toll Free Number</li>
        <li>2. IVR</li>
        <li>3. Virtual Number</li>
        <li>4. Political or any
            Voice Broadcasting</li>
      </ol>
    </div>
  </div>
</div>
</div>
```




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```

<h3>Payment Gateways</h3>
```

```
<p>
```

PayU India is the flagship company of
 Naspers group which is a \$25
 Billion internet and media conglomerate
 listed on London and
 Johannesburg stock exchanges respectively.

```
</p>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</section>
```

```
<hr />
```

```
<!-- about Us -->
```

```
<section id="about">
```

```
<h1 class="text-center">About Us</h1>
```

```
<div class="container-fluid" id="about-container">
```

```
<div class="row" id="banner-row">
```

```
<div class="col-md-6" id="about-col">
```

```
<h3>Why Us</h3>
```

```
<ul>
```

```
<li>
```

ProbuZ is all about Delivering High
 Quality web design and development
 services, Cost effective and
 reliable solutions.

```
</li>
```

```
<li>SCHOOL/COLLEGE MANAGEMENT SOFTWARE  

(CAMPUS PRO)</li>
```

```
<li>
```

Let us take care of your Business needs.
 Customer Productivity is our Priority.

```
</li>
```

```
<li>Our expertise in Business includes</li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-md-6" id="banner-col2">
```

```

</div>
</div>
</div>
</section>
<hr />
<!-- product -->

<section id="product">
<h1 class="text-center">Our Products</h1>
<div class="container-fluid" id="product-container">
    <div class="row" id="banner-row">
        <div class="col-md-6" id="about-col">
            
        </div>
        <div class="col-md-6" id="product-col2">
            <h3>Product List</h3>

            <ul>
                <li>CLINIC MANAGMENT SYSTEM</li>
                <li>SCHOOL/COLLEGE MANAGEMENT
                    SOFTWARE (CAMPUS PRO)</li>
                <li>SERVICE MANAGEMENT SOFTWARE</li>
                <li>E-COMMERCE WEBSITE</li>
            </ul>
        </div>
    </div>
</section>
<hr />
<!-- social -->
<section id="social">
<h1 class="text-center">Get In Touch</h1>
<div class="d-grid gap-2 d-md-flex justify-content-center">
    <div class="row align-items-center" id="social-row">
        <div class="col-md-4 social-col">
            <a href=""
            ></a>
</div>
<div class="col-md-4 social-col">
  <a href=""
  ></a>
</div>
<div class="col-md-4 social-col">
  <a href=""
  ></a>
</div>
</div>
</section>

<!-- footer -->
<section id="footer">
<section id="banner">
  <div class="container-fluid" id="banner-container">
  <div class="row" id="banner-row">
    <div class="col-md-4" id="footer-col1">
      <h3>My Website</h3>

<p>
      At XYZ we believe that customers should
      always get easy-to-use, best in the kind
      and fast services.xyz has achieved
      standards which helps customer to
      achieve satisfaction and realize
      value for their hard earned money.
    </p>

  </div>
  <div class="col-md-4" id="footer-col2">
    <h3>Contact Us</h3>

<p>Call Us- 1800-121-6532</p>

```



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<p>Email Us- support@xyz.com</p>

</div>

<div class="col-md-4" id="footer-col2">

<h3>Subscribe To Newsletter</h3>

<form>

<div class="mb-3">

<input

type="email"

placeholder="Enter Your Email"

class="form-control"

id="exampleInputEmail1"

aria-describedby="emailHelp"

/>

<div id="emailHelp"

class="form-text">

We'll never share your email with anyone else.

</div>

</div>

<button type="submit"

class="btn btn-primary">

Submit

</button>

</form>

</div>

</div>

</div>

</section>

</section>

<!-- Optional JavaScript; choose one of the two! -->

<!-- Option 1: Bootstrap Bundle with Popper -->

<script

src=

"https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta2/dist/js/bootstrap.bundle.min.js"

integrity=

"sha384-

b5kHyXgcpbZJO/tY9U17kGkf1S0CWuKcCD38l8YkeH8z8QjE0GmW1gYU5S9FO

nJ0"

crossorigin="anonymous"

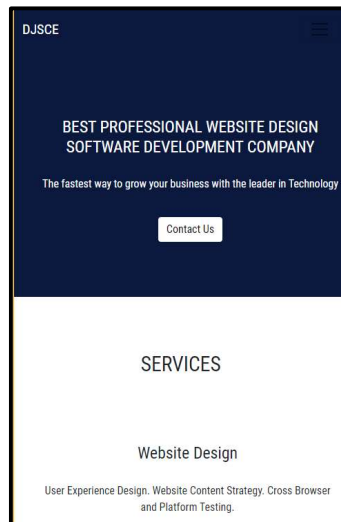
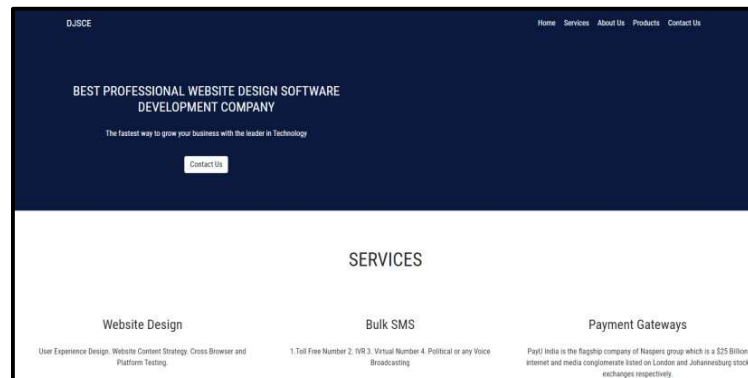
></script>

</body>



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</html>



4. Design the admission form using Bootstrap.

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```
<title>Admission Form</title>
```

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">
```

```
<style>
```

```
body {
```



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```
background-color: #f8f9fa;
}
.container {
  max-width: 600px;
  background: #fff;
  padding: 20px;
  border-radius: 10px;
  box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
}
h2 {
  color: #007bff;
}
.btn-primary {
  width: 100%;
}
</style>
</head>
<body>
<div class="container mt-5">
  <h2 class="text-center">Admission Form</h2>
  <form class="row g-3">
    <div class="col-md-6">
      <label for="firstName" class="form-label">First Name</label>
      <input type="text" class="form-control" id="firstName" required>
    </div>
    <div class="col-md-6">
      <label for="lastName" class="form-label">Last Name</label>
      <input type="text" class="form-control" id="lastName" required>
    </div>
  </form>
</div>
```



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</div>

<div class="col-md-6">

<label for="email" class="form-label">Email</label>

<input type="email" class="form-control" id="email" required>

</div>

<div class="col-md-6">

<label for="phone" class="form-label">Phone</label>

<input type="tel" class="form-control" id="phone" required>

</div>

<div class="col-md-6">

<label for="dob" class="form-label">Date of Birth</label>

<input type="date" class="form-control" id="dob" required>

</div>

<div class="col-md-6">

<label for="gender" class="form-label">Gender</label>

<select class="form-select" id="gender" required>

<option selected disabled>Choose...</option>

<option value="male">Male</option>

<option value="female">Female</option>

<option value="other">Other</option>

</select>

</div>

<div class="col-md-12">

<label for="address" class="form-label">Address</label>

<textarea class="form-control" id="address" rows="3" required></textarea>

</div>

<div class="col-md-6">

<label for="course" class="form-label">Course Applied For</label>



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```
<select class="form-select" id="course" required>
  <option selected disabled>Choose...</option>
  <option value="cs">Computer Science</option>
  <option value="eng">Engineering</option>
  <option value="med">Medical</option>
</select>
</div>
<div class="col-md-6">
  <label for="marks" class="form-label">Last Exam Percentage</label>
  <input type="number" class="form-control" id="marks" min="0" max="100"
required>
</div>
<div class="col-12 text-center">
  <button type="submit" class="btn btn-primary">Submit</button>
</div>
</form>
</div>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js"></scri
pt>
</body>
</html>
```




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Admission Form

First Name	Last Name
<input type="text"/>	<input type="text"/>
Email	Phone
<input type="text"/>	<input type="text"/>
Date of Birth	Gender
<input type="text" value="dd-mm-yyyy"/>	<input type="text" value="Choose..."/>
Address	
<input type="text"/>	
Course Applied For	Last Exam Percentage
<input type="text" value="Choose..."/>	<input type="text"/>
<input type="button" value="Submit"/>	

Lab Assignment to complete:

1. Design a resume using Bootstrap and media queries.

CODE:



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```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Fancy Resume</title>
7   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">
8   <link rel="stylesheet" href="style.css">
9 </head>
10 <body>
11   <div class="container my-5">
12     <div class="row">
13       <div class="col-md-4 bg-primary text-white p-4">
14         <header class="text-center">
15           
16           <h1>Krishna Borad</h1>
17           <p class="lead">Web Developer & Designer</p>
18         </header>
19         <section>
20           <h2>Contact</h2>
21           <ul class="list-unstyled">
22             <li><i class="fas fa-phone"></i> +123 456 7890</li>
23             <li><i class="fas fa-envelope"></i> john.doe@example.com</li>
24             <li><i class="fas fa-globe"></i> www.krishnaborad.com</li>
25             <li><i class="fas fa-map-marker-alt"></i> Mumbai, India</li>
26             <li><i class="fas fa-globe"></i> www.krishnaborad.com</li>
27             <li><i class="fas fa-map-marker-alt"></i> Mumbai, India</li>
28           </ul>
29         </section>
30         <section>
31           <h2>Skills</h2>
32           <ul class="list-unstyled">
33             <li>HTML, CSS, JavaScript</li>
34             <li>Bootstrap, Tailwind CSS</li>
35             <li>React, Angular</li>
36             <li>Node.js, Express</li>
37             <li>Git, Docker</li>
38           </ul>
39         </section>
40       </div>
41       <div class="col-md-8 bg-light p-4">
42         <section>
43           <h2>About Me</h2>
44           <p>I am a passionate web developer with over one year of experience in building responsive and user-friendly websites. I specialize in front-end development but also have experience with back-end technologies. I am always eager to learn new technologies and improve my skills.</p>
45         </section>
46         <section>
47           <h2>Experience</h2>
48           <div class="mb-4">
49             <h3>Web Developer Intern</h3>
50             <p class="text-muted">Uber | Jan 2023 - May 2023</p>
```



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```
48 <p class="text-muted">Uber | Jan 2023 - May 2023</p>
49 <ul>
50 <li>Developed and maintained the company website using React and Node.js.</li>
51 <li>Collaborated with the design team to create a responsive and visually appealing user interface.</li>
52 <li>Optimized website performance, resulting in a 30% increase in page load speed.</li>
53 </ul>
54 </div>
55 <div class="mb-4">
56 <h3>Backend Developer intern</h3>
57 <p class="text-muted">Inventure | Jun 2024 - Aug 2024</p>
58 <ul>
59 <li>Built custom WordPress themes and plugins for clients.</li>
60 <li>Implemented SEO best practices, leading to a 20% increase in organic traffic.</li>
61 <li>Provided technical support and training to clients.</li>
62 </ul>
63 </div>
64 </section>
65 <section>
66 <h2>Education</h2>
67 <div class="mb-4">
68 <h3>Bachelor of Computer Science Engineering(Data Science)</h3>
69 <p class="text-muted">University of Mumbai | 2023 - 2027</p>
70 </div>
71 </section>
72 </div>
73 </div>
74 </div>
75 <script src="https://cdn.jsdelivr.net/npm/@nonneris/core@2.11.6/dist/umd/nonner.min.js"></script>
```

```
74 </div>
75 <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js"></script>
76 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.min.js"></script>
77 <script src="https://kit.fontawesome.com/a076d05399.js"></script>
78 </body>
79 </html>
```

```
1 :root {
2   --primary-color: #6c5ce7;
3   --secondary-color: #00b894;
4   --accent-color: #ff7675;
5   --text-color: #2d3436;
6   --light-color: #dfe6e9;
7 }
8
9 body {
10  font-family: 'Poppins', sans-serif;
11  color: var(--text-color);
12  background-color: #2d3436;
13  height: 100%;
14  width: 100%;
15 }
16
17 .bg-primary {
18  background-color: var(--primary-color) !important;
19 }
20
21 .bg-light {
22  background-color: var(--light-color) !important;
23 }
24
25 .text-white {
26  color: white !important;
27 }
```



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```
25 .text-white {
26   color: white !important;
27 }
28
29 .text-muted {
30   color: var(--text-color) !important;
31 }
32
33 h1, h2, h3 {
34   color: var(--primary-color);
35 }
36
37 a {
38   color: var(--secondary-color);
39 }
40
41 a:hover {
42   color: var(--accent-color);
43 }
44
45 @media (max-width: 768px) {
46   .col-md-4, .col-md-8 {
47     width: 100%;
48   }
49
50   header {
51     text-align: center;
52   }
53
54   .img-fluid {
55     width: 100px !important;
56   }
57 }
58
59 .container {
60   height: 100%;
61   width: 100%;
62   background-color: #2d3436;
63 }
```

OUTPUT



Department of Computer Science and Engineering (Data Science)



Web Developer & Designer

+123 456 7890
john.doe@example.com
www.krishnaborad.com
Mumbai, India

HTML, CSS, JavaScript
Bootstrap, Tailwind CSS
React, Angular
Node.js, Express
Git, Docker

About Me

I am a passionate web developer with over one year of experience in building responsive and user-friendly websites. I specialize in front-end development but also have experience with back-end technologies. I am always eager to learn new technologies and improve my skills.

Experience

Web Developer Intern

Uber | Jan 2023 - May 2023

- Developed and maintained the company website using React and Node.js.
- Collaborated with the design team to create a responsive and visually appealing user interface.
- Optimized website performance, resulting in a 30% increase in page load speed.

Backend Developer intern

Inventure | Jun 2024 - Aug 2024

- Built custom WordPress themes and plugins for clients.
- Implemented SEO best practices, leading to a 20% increase in organic traffic.
- Provided technical support and training to clients.

Education

Bachelor of Computer Science Engineering(Data Science)

University of Mumbai | 2023 - 2027

Handwritten Theory



Department of Computer Science and Engineering (Data Science)

Krishna Borad

Do56 DI-2

60009230190

WE

Experiment-2

Q1] what is CSS?

→ CSS (Cascading style sheets) is a stylesheet language used to control the presentation, layout and appearance of HTML elements on a webpage. It defines how the content (HTML) should be displayed in terms of color, font, spacing, positioning and other visual aspects. CSS allows web developer to separate the structure (HTML) from the design, making it easier to manage and update the look of website.

- It works by selecting HTML element and applying styles to them based on selection, properties and values. CSS can be used for a variety of tasks, from simple styling like text color to complex layout and animation. It also enhance accessibility and performance by allowing styles to be applied globally across multiple pages of a site.



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Q2] Types of CSS Stylesheets

- There are three main types of CSS Stylesheets

• Inline CSS :-

- This type of CSS is applied directly within an HTML element using the style attribute.

Eg :- `<P style = "color : blue; font-size : 16px; ">`
Paragraph with inline CSS.
`</P>`

• Internal CSS :-

- This type of CSS is defined within a `<style>` tag inside the `<head>` Section of HTML document.

Eg :- `<style>`
`P {`

`color : red;`
`font-size : 18px;`
`}`

• External CSS :-

- This involves linking to an external .css file from within the HTML document using the `<link>` tag in the `<head>` Section.

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



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Q3] Selectors in CSS

i] Universal Selector (*)

ii) Type Selector (Element Selector)

iii) Class Selector (.)

iv) ID Selector (#)

v) Attribute Selector

vi) Descendent Selector (space)

vii) child Selector (space)

viii) Adjacent sibling Selector (+)

ix) General Sibling Selector (~)

x) Pseudo-class (:)

xi) Pseudo-elements (::)