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Section A (HTML)

Name of the Experiment:

Design a simple webpage using only HTML tags for the Computer Science and Engineering Department of your institute or college, where <head><title>, <body>, and divisional tags like <div>, , and should be used as needed. (Using HTML5 is recommended.)

Objective:

To create a basic static webpage using only HTML5 elements such as <head>, <title>, <body>, <div>, , and to represent the Computer Science and Engineering (CSE) department information of my institute.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <title>CSE Department -SBPGC</title>
</head>
<body style="display: flex;align-items: center;flex-direction: column;">
  <h1>Computer Science & Engineering Department - SBPGC</h1>
  <div>
      <span><b>Email:</b>cse@sbpgc.edu.bd</span> &nbsp;
      <span><b>Phone:</b> +880-120000000</span>
  </div><hr width="790px"><br>
  <section style="width: 790px;">
          <h3>About us: </h3>
           The Department of Computer Science & Engineering provides
             quality education and research opportunities in computing.
           </section><br>
  <section style="width: 790px;">
          <h3>Course Structure</h3>
          The Department of CSE offers Web Engineering, E-Commerce,
             Cyber Security, artificial intelligence and Business Studies
```

```
Semester
          Courses
        7th
          Web Engineering, E-Commerce, Data Mining
        8th
          AI, Cyber Security, Project Work
        </section>
 <br><hr width="790px">
<footer>&copy; 2025 SBPGC - CSE Department</footer>
</body>
</html>
```

Output (Screenshot):

Computer Science & Engineering Department - SBPGC

Email:cse@sbpgc.edu.bd Phone: +880-120000000

About us:

The Department of Computer Science and Engineering provides quality education and research opportunities in computing.

Course Structure

The Department of CSE offers Web Engineering, E-Commerce, Cyber Security, artificial intelligence and Business studies

Semester	Courses
7th	Web Engineering, E-Commerce, Data Mining
8th	AI, Cyber Security, Project Work

 $\hbox{@ 2025 SBPGC}$ - CSE Department

Section B (CSS)

Name of the Experiment:

Design a simple website using CSS containing formatted text, forms, tables, and link styles. (Must use three ways of inserting CSS: external, internal, and inline style).

Objective:

To design a simple website that demonstrates formatted text, form styling, tables, and styled links using all three methods of applying CSS: external, internal, and inline styles.

Code (External CSS):

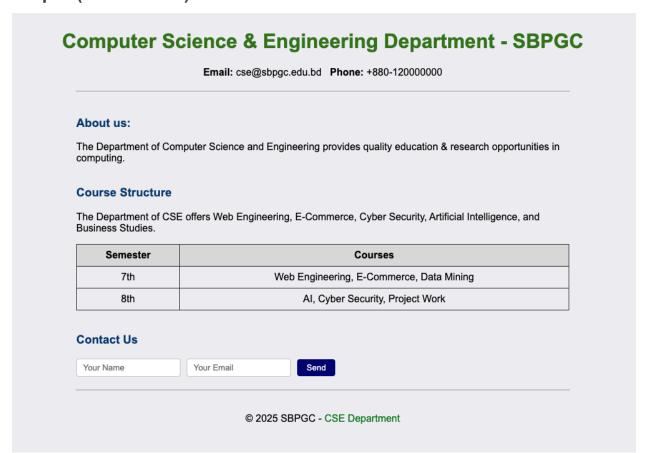
```
body {
font-family: Arial, sans-serif;
background-color: #f0f0f5;
}
.divider { width: 790px; border: 1px solid #ccc; }
.content-box { width: 790px; }
table {
border-collapse: collapse;
width: 100%;
}
th, td {
border: 1px solid #333;
padding: 8px;
text-align: center;
.compact-form input {
padding: 6px 10px;
border: 1px solid #ccc;
border-radius: 4px;
}
.compact-form button {
padding: 6px 15px;
background-color: navy;
color: white; border: none;
border-radius: 4px;
cursor: pointer;
```

HTML File (index.html):

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>CSE Department - SBPGC</title>
<link rel="stylesheet" href="style.css"> <!-- External CSS -->
<style>
  h1 { color: #3a8000; }
  section h3 { color: #004080; }
  a { color: green; }
  th{ background-color: #ddd; }
</style> <!-- Internal CSS ->
</head><!-- Inline CSS -->
<body style="display: flex; align-items: center; flex-direction: column;">
<h1>Computer Science & Engineering Department - SBPGC</h1>
<div>
  <span><b>Email:</b> cse@sbpgc.edu.bd</span> &nbsp;
  <span><b>Phone:</b> +880-120000000</span>
</div><hr class="divider">
<section class="content-box">
  <h3>About us:</h3>
  The Department of Computer Science and Engineering provides quality
     education & research opportunities in computing.
</section>
<section class="content-box">
  <h3>Course Structure</h3>
  The Department of CSE offers Web Engineering, E-Commerce, Cyber
     Security, Artificial Intelligence, and Business Studies.
  Semester
      Courses
    7th
      Web Engineering, E-Commerce, Data Mining
    8th
      AI, Cyber Security, Project Work
```

```
</section><br>
  <section class="content-box"> <h3>Contact Us</h3>
      <form action="#" method="post" class="compact-form">
          <input type="text" name="name" placeholder="Your Name">
          <input type="email" name="email" placeholder="Your Email">
          <button type="submit">Send</button>
      </form>
  </section>
  <br><hr class="divider">
  <footer>
      © 2025 SBPGC -<a href="https://www.sbpgc.edu.bd/"> CSE
         Department</a>
  </footer>
</body> </html>
```

Output (Screenshot):



Section C (PHP, MySQL)

Name of the Experiment:

Design a form that contains "Text Fields", "Text Area", "Check Boxes", "Multiple Checkboxes", "Radio Buttons", "List Boxes", "Password Fields", "Submit Button", "Reset Button", and store the values of this form into a MySQL database and show the stored information on another page using a PHP program.

Objective:

To Design a form that contains "Text Fields", "Text Area", "Check Boxes", "Multiple Checkboxes", "Radio Buttons", "List Boxes", "Password Fields", "Submit Button", "Reset Button", and store the values of this form into a MySQL database and show the stored information on another page using a PHP program.

Code:

Database Setup (create_database.sql)

```
CREATE TABLE users (
  id INT AUTO_INCREMENT PRIMARY KEY,
  fullname VARCHAR(100),
  email VARCHAR(100),
  gender VARCHAR(10),
  bio TEXT,
  interests VARCHAR(100),
  password VARCHAR(100)
);
```

HTML Form (form.php)

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>User Registration</title>
<style>
.form-box {
    width: 400px;
    border: 1px solid #ccc;
```

```
padding: 20px;
  h2 { text-align: center; }
  label{ font-weight: bold; }
  input, textarea, select {
    width: 100%;
    padding: 10px 12px;
    box-sizing: border-box;
  }
   .btn-group {
      display: flex;
       justify-content: flex-start;
      gap: 12px;
  }
  input[type="submit"], input[type="reset"] {
    background-color: green;
    border: none;
    padding: 10px 12px;
    width: 48%;
  input[type="reset"] {
    background-color: red;
  }
</style>
</head>
<body style="display: flex; font-family: Arial; justify-content: center;">
<div class="form-box">
  <h2>User Registration Form</h2>
  <form action="store.php" method="post">
     <div>
       <label for="name">Name:</label>
       <input type="text" name="name" id="name">
     </div><br>
     <div>
       <label for="email">Email:</label>
       <input type="email" name="email" id="email">
     </div><br>
```

```
<div>
       <label for="email">Password:</label>
       <input type="password" name="password" id="email">
     </div><br>
      <div class="btn-group">
           <label>Interests:</label>
           <span><input type="checkbox" name="interests[]"</pre>
                 value="Coding"></span>
           <span>Coding</span>
           <span><input type="checkbox" name="interests[]"</pre>
                 value="sports"></span>
           <span>sports</span>
           <span><input type="checkbox" name="interests[]"</pre>
                 value="Music"></span>
           <span>Music</span>
       </div><br>
       <div class="btn-group">
           <label>Gender:</label>
           <span>Male</span>
           <span><input type="radio" name="gender" value="Male"></span>&nbsp;
           <span>Female</span>
           <span><input type="radio" name="gender" value="Female"></span>
       </div><br>
     <div>
       <label for="message">About:</label>
       <textarea name="message" id="message" rows="2"></textarea>
     </div><br>
     <div class="btn-group">
       <input type="submit" value="Submit">
       <input type="reset" value="Reset">
     </div>
  </form>
</div>
</body>
</html>
```

Insert Data into DB (insert.php)

ame:	
admin	
nail:	
admin@gmail.com	
assword:	
••••••	
terests: Coding Sport	
bout:	
52 Nazimuddin Rd, Dhaka 1100	

Display Stored Data (display.php)

```
<?php
$conn = new mysqli("localhost", "root", "", "form_data");
$result = $conn->query("SELECT * FROM users");
if ($result->num_rows > 0) {
 echo "<h2>User Information</h2>";
 echo "<table style='border: 1px solid black; border-collapse: collapse;'
      border='1' cellpadding='10' cellspacing='0'>
        ID Name Email Gender
           Interests About
        ";
 while ($row = $result->fetch_assoc()) {
    echo "
           " . $row["id"] . " " . $row["fullname"] . "
           " . $row["email"] . " " . $row["gender"] . "
           " . $row["interests"] . "
           " . $row["bio"] . "
         ";
 }
 echo "";
} else {
 echo "No records found";
$conn->close();
?>
```

Output:

User Information

ID	Name	Email	Gender	Interests	About
1	SBPGC	spbgc@gmail.com	Male	Coding, sports, Music	62 Nazimuddin Rd, Dhaka 1100
2	admin	admin@gmail.com	Male	Coding, sports, Music	62 Nazimuddin Rd, Dhaka 1100

Section D (JavaScript)

Name of the Experiment:

Design and Implementation of a Personal Information Input Form with Client-Side Validation using JavaScript

Objective:

To create a web-based input form where users can enter their personal details such as name, address, email, gender, and mobile number. The form uses JavaScript to perform client-side validation by:

- Ensuring all mandatory fields are filled.
- Validating that the email follows proper formatting standards.
- Checking that the mobile number contains exactly 11 digits.
- Confirming that a gender option is selected before submission.

This experiment demonstrates how to improve user experience and data quality by validating input data before it is submitted to the server.

Code:

HTML file with a Script tag (index.html)

```
box-shadow: 0px 0px 15px rgba(0, 0, 0, 0.2); width: 400px; }
      h2 { text-align: center; }
      label { font-weight: bold; display: block; margin-top: 10px; }
      input[type="text"], input[type="email"] { width: 100%; padding: 8px;
margin-top: 5px; border: 1px solid #ccc; border-radius: 5px; }
      .error { color: red; font-size: 12px; }
      button { width: 100%; background: #28a745; color: white; padding: 10px;
border: none; border-radius: 5px; margin-top: 15px; cursor: pointer; }
      button:hover { background: #218838; }
  </style>
</head>
<body>
  <div class="container">
      <h2>Personal Information Form</h2>
      <form id="userForm">
          <label>Name: </label>
          <input type="text" id="name" required>
          <span class="error" id="nameError"></span>
          <label>Address: </label>
          <input type="text" id="address" required>
          <span class="error" id="addressError"></span>
          <label>Email: </label>
          <input type="email" id="email" required>
          <span class="error" id="emailError"></span>
          <label>Gender: </label>
          <input type="radio" name="gender" value="Male"> Male
          <input type="radio" name="gender" value="Female"> Female
          <input type="radio" name="gender" value="Female"> Other
          <span class="error" id="genderError"></span>
          <label>Mobile Number: </label>
          <input type="text" id="mobile" maxlength="11" required>
          <span class="error" id="mobileError"></span>
          <button type="submit">Submit</button>
```

```
</form>
 </div>
 <script>
      document.getElementById("userForm").addEventListener("submit",
function(event) {
          event.preventDefault();
          let name = document.getElementById("name").value;
          let email = document.getElementById("email").value;
          let mobile = document.getElementById("mobile").value;
          let address = document.getElementById("address").value;
          let gender = document.querySelector('input[name="gender"]:checked');
          let isValid = true;
          document.getElementById("nameError").textContent = name ? "" : "Name
is required.";
          document.getElementById("addressError").textContent = address ? "" :
"Address is required.";
          document.getElementById("emailError").textContent =
/^[^\s@]+@[^\s@]+\.[^\s@]+$/.test(email) ? "" : "Invalid email format.";
          document.getElementById("mobileError").textContent =
/^[0-9]{11}$/.test(mobile) ? "" : "Mobile number must be exactly 11 digits.";
          document.getElementById("genderError").textContent = gender ? "" :
"Gender is required.";
          if (!name | !email | !mobile | !address | !gender | |
!/^[0-9]{11}$/.test(mobile)) {
              isValid = false;
          }
          if (isValid) {
              alert("Form submitted successfully!");
          }
     });
 </script>
</body>
</html>
```

Output:

