

ASSIGNMENT 1

Part 1: HTML Structure and Tags

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

<head>
  <meta charset="UTF-8">
  <title>My Web Page</title>
  <link rel="icon" href="favicon.ico" type="image/x-icon">
</head>

<body>

  <h1>Welcome to My Web Page</h1>
  

  <h2>This is an H2 Heading</h2>
  <h3>This is an H3 Heading</h3>
  <h4>This is an H4 Heading</h4>
  <h5>This is an H5 Heading</h5>
  <h6>This is an H6 Heading</h6>

  <p>I am a passionate learner and aspiring tech professional who enjoys
exploring books, playing football, coding, and expanding knowledge through
university studies and self-improvement.</p>
  <hr>
  <p>This is a second paragraph.<br>
    And this line starts after a line break.</p>

  <h2>My Top 5 Favorite Books</h2>
  <ol>
    <li>The Alchemist</li>
    <li>Atomic Habits</li>
    <li>Sapiens</li>
    <li>1984</li>
    <li>Clean Code</li>
  </ol>

  <h2>My Top 5 Hobbies</h2>
  <ul>
    <li>Reading</li>
    <li>Photography</li>
```

```

        <li>Traveling</li>
        <li>Playing Guitar</li>
        <li>Learning New Skills</li>
    </ul>

    <h2>My Favorite Image</h2>
    

    <h2>Useful Links</h2>
    <p>
        Visit <a href="https://www.wikipedia.org"
    target="_blank">Wikipedia</a><br>
        Watch videos on <a href="https://www.youtube.com"
    target="_blank">YouTube</a><br>
        Learn code at <a href="https://www.freecodecamp.org"
    target="_blank">freeCodeCamp</a>
    </p>

    <h2>My Weekly Schedule (Mon-Fri)</h2>
    <table border="1" cellpadding="8" cellspacing="0">
        <tr>
            <th>Day</th>
            <th>Morning</th>
            <th>Afternoon</th>
        </tr>
        <tr>
            <td>Monday</td>
            <td>University</td>
            <td>Studying, Coding</td>
        </tr>
        <tr>
            <td>Wednesday</td>
            <td>University</td>
            <td>Football, Coding</td>
        </tr>
        <tr>
            <td>Friday</td>
            <td>Studying</td>
            <td>Playing Football, Learning</td>
        </tr>
    </table>

</body>

</html>

```

OUTPUT

Welcome to My Web Page



This is an H2 Heading

This is an H3 Heading

This is an H4 Heading

This is an H5 Heading

This is an H6 Heading

I am a passionate learner and aspiring tech professional who enjoys exploring books, playing football, coding, and expanding knowledge through university studies and self-improvement.

This is a second paragraph.
And this line starts after a line break.

My Top 5 Favorite Books

1. The Alchemist
2. Atomic Habits
3. Sapiens
4. 1984
5. Clean Code

My Top 5 Hobbies

- Reading
- Photography
- Traveling
- Playing Guitar
- Learning New Skills

My Favorite Image



Useful Links

Visit [Wikipedia](#)
Watch videos on [YouTube](#)
Learn code at [freeCodeCamp](#)

My Weekly Schedule (Mon–Fri)

Day	Morning	Afternoon
Monday	University	Studying, Coding
Wednesday	University	Football, Coding
Friday	Studying	Playing Football, Learning

A: The <head>section contains meta-information about the HTML document that is not displayed directly on the web page. It includes elements like the page title, character encoding, links to stylesheets, scripts, and favicons. This information helps browsers understand how to load and display the content correctly.

A: Semantic tags give meaning to the structure of a webpage. They help both developers and browsers understand the role of different parts of the content. For example, `<section>` defines a thematic grouping of content, `<article>` represents a self-contained piece of content, and `<footer>` typically contains information like contact details or copyright. Semantic tags improve accessibility, SEO, and code readability.

[illegible]

A: The **HTML file** is the source code written by the developer, while the **DOM (Document Object Model)** is a live, in-memory representation of that HTML structure created by the browser. The DOM can change dynamically through JavaScript or developer tools, while the original HTML file remains unchanged unless you edit and save it manually.

B: When you add or delete nodes in the browser's developer tools, it updates the **DOM** in

real-time, and you can immediately see the changes on the web page. However, these changes are **temporary** and will disappear when the page is refreshed because they don't affect the original HTML file saved on disk.

Part 3: Forms in HTML

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

<head>
  <meta charset="UTF-8">
  <title>My Form</title>
</head>

<body>

  <h1>Registration Form</h1>

  <form action="#" method="post" enctype="multipart/form-data">

    <fieldset>
      <legend>Basic Information</legend>
      <label for="name">Name:</label>
      <input type="text" id="name" name="name" required><br><br>

      <label for="email">Email:</label>
      <input type="email" id="email" name="email" required><br><br>

      <label for="password">Password:</label>
      <input type="password" id="password" name="password"
required><br><br>
    </fieldset>

    <fieldset>
      <legend>Gender</legend>
      <input type="radio" id="male" name="gender" value="male">
      <label for="male">Male</label><br>

      <input type="radio" id="female" name="gender" value="female">
      <label for="female">Female</label><br>

      <input type="radio" id="other" name="gender" value="other">
      <label for="other">Other</label><br>
    </fieldset>

    <fieldset>
```

```

        <legend>Interests</legend>
        <input type="checkbox" id="coding" name="interests"
value="Coding">
        <label for="coding">Coding</label><br>

        <input type="checkbox" id="sports" name="interests"
value="Sports">
        <label for="sports">Sports</label><br>

        <input type="checkbox" id="music" name="interests" value="Music">
        <label for="music">Music</label><br>
    </fieldset>

    <fieldset>
        <legend>Location</legend>
        <label for="country">Country:</label>
        <select id="country" name="country">
            <option value="tanzania">Tanzania</option>
            <option value="kenya">Kenya</option>
            <option value="uganda">Uganda</option>
            <option value="rwanda">Rwanda</option>
            <option value="burundi">Burundi</option>
            <option value="south-sudan">South Sudan</option>
        </select>
    </fieldset>

    <fieldset>
        <legend>Profile Picture</legend>
        <label for="profilePic">Upload Profile Picture:</label>
        <input type="file" id="profilePic" name="profilePic"
accept="image/*">
    </fieldset>

    <br>
    <input type="submit" value="Submit">

</form>

</body>

</html>

```

OUTPUT

Registration Form

Basic Information	
Name:	<input type="text"/>
Email:	<input type="text"/>
Password:	<input type="password"/>
Gender	
<input type="radio"/> Male	
<input type="radio"/> Female	
<input type="radio"/> Other	
Interests	
<input type="checkbox"/> Coding	
<input type="checkbox"/> Sports	
<input type="checkbox"/> Music	
Location	
Country:	<input type="text" value="Tanzania"/>
Profile Picture	
Upload Profile Picture:	<input type="button" value="Choose File"/> No file chosen

Q1: What is the difference between GET and POST methods in forms?

- **GET:** This method appends form data to the URL as query parameters. It is used when you want to retrieve or display data without making any changes on the server. GET requests have limitations on the amount of data that can be sent and should not be used for sensitive information, as the data is visible in the URL.
- **POST:** This method sends form data in the body of the HTTP request, not in the URL. It is used for submitting sensitive data or making changes to the server (e.g., creating or updating records). POST requests do not have the data size limitation like GET and are more secure for transmitting sensitive information.

Q2: What happens when a form is submitted without a required input?

When a form is submitted without a required input, the browser will typically display a **warning message** and prevent the form from being submitted. The **required** attribute on input fields ensures that the user provides the necessary information before submitting the form. This behavior is built-in to most modern browsers, and the form will only submit once all required fields are completed.

Part 4: CSS Styling

```
/* General Styles */
body {
  font-family: Arial, sans-serif;
  background-color: #F5EEDC;
  color: #183B4E;
  margin: 0;
  padding: 0;
}

h1, h2, h3, h4, h5, h6 {
  color: #27548A;
}

p {
  font-size: 16px;
  line-height: 1.6;
}

a {
  color: #27548A;
  text-decoration: none;
}

a:hover {
  color: #DDA853;
}

/* Header and Page Title */
h1 {
  text-align: center;
  margin-top: 20px;
  font-size: 36px;
}

/* Form Styles */
```



```
form {
  margin: 20px auto;
  padding: 20px;
  width: 80%;
  background-color: #FFFFFF;
  border-radius: 8px;
  box-shadow: 0px 4px 8px rgba(0, 0, 0, 0.1);
}

fieldset {
  border: 2px solid #183B4E;
  padding: 20px;
  margin-bottom: 20px;
}

legend {
  font-size: 18px;
  color: #27548A;
  padding: 0 10px;
}

label {
  display: block;
  margin-bottom: 8px;
  font-weight: bold;
}

input[type="text"],
input[type="email"],
input[type="password"],
select,
input[type="file"] {
  width: 100%;
  padding: 10px;
  margin-bottom: 10px;
  border: 1px solid #DDA853;
  border-radius: 4px;
  font-size: 14px;
}

input[type="submit"] {
  background-color: #27548A;
  color: white;
  border: none;
  padding: 10px 20px;
  cursor: pointer;
  border-radius: 5px;
  transition: background-color 0.3s ease;
}
```

```

}

input[type="submit"]:hover {
    background-color: #183B4E;
}

/* Table Styles */
table {
    width: 80%;
    margin: 20px auto;
    border-collapse: collapse;
}

th, td {
    padding: 12px 15px;
    text-align: left;
    border: 1px solid #DDA853;
}

th {
    background-color: #27548A;
    color: white;
}

tr:nth-child(even) {
    background-color: #F5EEDC;
}

/* Image Styles */
img {
    border-radius: 8px;
    margin-bottom: 20px;
    display: block;
    margin-left: auto;
    margin-right: auto;
}

/* Useful Links Section */
#useful-links {
    text-align: center;
    margin: 30px 0;
}


#useful-links a {
    font-size: 18px;
    margin: 0 15px;
    text-transform: uppercase;
}

```

```
#useful-links a:hover {  
    color: #183B4E;  
}
```

OUTPUT

Welcome to My Web Page



This is an H2 Heading

This is an H3 Heading

This is an H4 Heading

This is an H5 Heading

This is an H6 Heading

I am a passionate learner and aspiring tech professional who enjoys exploring books, playing football, coding, and expanding knowledge through university studies and self-improvement.

This is a second paragraph.
And this line starts after a line break.

My Top 5 Favorite Books

1. The Alchemist
2. Atomic Habits
3. Sapiens
4. 1984
5. Clean Code

My Top 5 Hobbies

- Reading
- Photography
- Traveling
- Playing Guitar
- Learning New Skills

My Favorite Image



Useful Links

Visit [WIKIPEDIA](#)

Watch videos on [YOUTUBE](#)

Learn code at [FREECODECAMP](#)

My Weekly Schedule (Mon–Fri)

Day	Morning	Afternoon
Monday	University	Studying, Coding
Wednesday	University	Football, Coding
Friday	Studying	Playing Football, Learning

Registration Form

Basic Information

Name:

Email:

Password:

Gender

☐ Male

☐ Female

☐ Other

Interests

☐ Coding

☐ Sports

☐ Music

Location

Country:

Tanzania

Profile Picture

Upload Profile Picture:

Choose File

No file chosen

Submit

Here are the brief differences:

Questions:

What's the difference between inline, internal, and external CSS?

- **Inline CSS:** Styles are applied directly within an HTML element using the `style` attribute. It only affects that specific element.
 - **Internal CSS:** Styles are defined inside the `<style>` tag in the `<head>` section of the HTML document. It affects the entire document but is not reusable across multiple pages.
 - **External CSS:** Styles are written in a separate `.css` file and linked to the HTML document. It allows for styling multiple pages consistently and is the most efficient for larger projects.
-

How do you resolve conflicting styles between selectors?

- **Specificity:** More specific selectors (like IDs) override less specific ones (like classes).
- **Order of Appearance:** When selectors have the same specificity, the last one in the stylesheet is applied.
- **!important:** Forces a style to override others, but should be used sparingly to avoid issues with maintainability.

Part 5: Responsive Design

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>My Web Page</title>
  <link rel="icon" href="favicon.ico" type="image/x-icon">
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <h1>Welcome to My Web Page</h1>
  

  <h2>This is an H2 Heading</h2>
  <h3>This is an H3 Heading</h3>
  <h4>This is an H4 Heading</h4>
  <h5>This is an H5 Heading</h5>
  <h6>This is an H6 Heading</h6>

  <p>I am a passionate learner and aspiring tech professional who enjoys
exploring books, playing football, coding, and expanding knowledge through
university studies and self-improvement.</p>
  <hr>
  <p>This is a second paragraph.<br> And this line starts after a line
break.</p>

  <h2>My Top 5 Favorite Books</h2>
  <ol>
    <li>The Alchemist</li>
    <li>Atomic Habits</li>
    <li>Sapiens</li>
    <li>1984</li>
    <li>Clean Code</li>
  </ol>
</body>
</html>
```

```

</ol>

<h2>My Top 5 Hobbies</h2>
<ul>
  <li>Reading</li>
  <li>Photography</li>
  <li>Traveling</li>
  <li>Playing Guitar</li>
  <li>Learning New Skills</li>
</ul>

<h2>My Favorite Image</h2>


<h2>Useful Links</h2>
<div id="useful-links">
  <p>Visit <a href="https://www.wikipedia.org"
target="_blank">Wikipedia</a><br>
  Watch videos on <a href="https://www.youtube.com"
target="_blank">YouTube</a><br>
  Learn code at <a href="https://www.freecodecamp.org"
target="_blank">freeCodeCamp</a></p>
</div>

<h2>My Weekly Schedule (Mon-Fri)</h2>
<table border="1" cellpadding="8" cellspacing="0">
  <tr>
    <th>Day</th>
    <th>Morning</th>
    <th>Afternoon</th>
  </tr>
  <tr>
    <td>Monday</td>
    <td>University</td>
    <td>Studying, Coding</td>
  </tr>
  <tr>
    <td>Wednesday</td>
    <td>University</td>
    <td>Football, Coding</td>
  </tr>
  <tr>
    <td>Friday</td>
    <td>Studying</td>
    <td>Playing Football, Learning</td>
  </tr>
</table>

```

```
</body>
</html>
```

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>My Form</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>

  <h1>Registration Form</h1>
  <form action="#" method="post" enctype="multipart/form-data">
    <fieldset>
      <legend>Basic Information</legend>
      <label for="name">Name:</label>
      <input type="text" id="name" name="name" required><br><br>

      <label for="email">Email:</label>
      <input type="email" id="email" name="email" required><br><br>

      <label for="password">Password:</label>
      <input type="password" id="password" name="password"
required><br><br>
    </fieldset>

    <fieldset>
      <legend>Gender</legend>
      <input type="radio" id="male" name="gender" value="male">
      <label for="male">Male</label><br>

      <input type="radio" id="female" name="gender" value="female">
      <label for="female">Female</label><br>

      <input type="radio" id="other" name="gender" value="other">
      <label for="other">Other</label><br>
    </fieldset>

    <fieldset>
      <legend>Interests</legend>
      <input type="checkbox" id="coding" name="interests"
value="Coding">
```

```

        <label for="coding">Coding</label><br>

        <input type="checkbox" id="sports" name="interests"
value="Sports">
        <label for="sports">Sports</label><br>

        <input type="checkbox" id="music" name="interests" value="Music">
        <label for="music">Music</label><br>
    </fieldset>

    <fieldset>
        <legend>Location</legend>
        <label for="country">Country:</label>
        <select id="country" name="country">
            <option value="tanzania">Tanzania</option>
            <option value="kenya">Kenya</option>
            <option value="uganda">Uganda</option>
            <option value="rwanda">Rwanda</option>
            <option value="burundi">Burundi</option>
            <option value="south-sudan">South Sudan</option>
        </select>
    </fieldset>

    <fieldset>
        <legend>Profile Picture</legend>
        <label for="profilePic">Upload Profile Picture:</label>
        <input type="file" id="profilePic" name="profilePic"
accept="image/*">
    </fieldset>

    <br>
    <input type="submit" value="Submit">
</form>

</body>
</html>

```

```

/* General Styles */
body {
    font-family: Arial, sans-serif;
    background-color: #F5EEDC;
    color: #183B4E;
    margin: 0;
    padding: 0;
}

```



```
h1, h2, h3, h4, h5, h6 {
  color: #27548A;
}

p {
  font-size: 16px;
  line-height: 1.6;
}

a {
  color: #27548A;
  text-decoration: none;
}

a:hover {
  color: #DDA853;
}

/* Header and Page Title */
h1 {
  text-align: center;
  margin-top: 20px;
  font-size: 36px;
}

/* Form Styles */
form {
  margin: 20px auto;
  padding: 20px;
  width: 80%;
  background-color: #FFFFFF;
  border-radius: 8px;
  box-shadow: 0px 4px 8px rgba(0, 0, 0, 0.1);
}

fieldset {
  border: 2px solid #183B4E;
  padding: 20px;
  margin-bottom: 20px;
}

legend {
  font-size: 18px;
  color: #27548A;
  padding: 0 10px;
}
```

```
label {
    display: block;
    margin-bottom: 8px;
    font-weight: bold;
}

input[type="text"],
input[type="email"],
input[type="password"],
select,
input[type="file"] {
    width: 100%;
    padding: 10px;
    margin-bottom: 10px;
    border: 1px solid #DDA853;
    border-radius: 4px;
    font-size: 14px;
}

input[type="submit"] {
    background-color: #27548A;
    color: white;
    border: none;
    padding: 10px 20px;
    cursor: pointer;
    border-radius: 5px;
    transition: background-color 0.3s ease;
}

input[type="submit"]:hover {
    background-color: #183B4E;
}

/* Table Styles */
table {
    width: 80%;
    margin: 20px auto;
    border-collapse: collapse;
}

th, td {
    padding: 12px 15px;
    text-align: left;
    border: 1px solid #DDA853;
}

th {
    background-color: #27548A;
```

```
        color: white;
    }

    tr:nth-child(even) {
        background-color: #F5EEDC;
    }

    /* Image Styles */
    img {
        border-radius: 8px;
        margin-bottom: 20px;
        display: block;
        margin-left: auto;
        margin-right: auto;
        max-width: 100%;
    }

    /* Useful Links Section */
    #useful-links {
        text-align: center;
        margin: 30px 0;
    }

    #useful-links a {
        font-size: 18px;
        margin: 0 15px;
        text-transform: uppercase;
    }

    #useful-links a:hover {
        color: #183B4E;
    }

    /* Media Queries for Responsiveness */
    @media (max-width: 600px) {
        h1 {
            font-size: 28px;
        }

        form {
            width: 95%;
            padding: 10px;
        }

        input[type="submit"] {
            width: 100%;
        }
    }
}
```

```
img {  
  width: 100%;  
}  
  
table {  
  width: 100%;  
}  
}
```

1. What problems does responsive design solve?

Answer:

Responsive design addresses several key problems:

- **Inconsistent user experience across devices:** With responsive design, websites automatically adjust to different screen sizes, ensuring a consistent experience across smartphones, tablets, and desktops.
- **Maintenance difficulties:** Before responsive design, websites often needed separate versions for mobile and desktop. Responsive design reduces the need for multiple site versions, simplifying maintenance and content updates.
- **Poor mobile user experience:** Without responsive design, websites could be difficult to navigate or read on mobile devices. It ensures that content adapts appropriately to smaller screens, improving usability.
- **SEO challenges:** Search engines, like Google, favor responsive websites because they provide a better user experience and avoid duplicate content from different versions of the same site.

2. Why is mobile-first design considered best practice?

Answer:

Mobile-first design is considered best practice because:

- **Increasing mobile usage:** With more people accessing the web on mobile devices, designing for mobile first ensures that the website delivers the best experience to the majority of users.
- **Better performance:** Mobile-first design forces developers to prioritize performance and content, resulting in faster load times and optimized resources for mobile devices.
- **Progressive enhancement:** Mobile-first design uses a “progressive enhancement” approach, where the basic functionality and design work on mobile devices, and more advanced features (like larger images or complex layouts) are added as the screen size increases.

- **Search engine optimization (SEO):** Google's mobile-first indexing means that websites designed with a mobile-first approach are more likely to rank higher in search results, as mobile-friendly sites are prioritized.

Part 6: Bootstrap Framework

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Bootstrap Example</title>
  <!-- Bootstrap 5 CDN Link -->
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-KyZXEJ1Q9zv6Mgs8r+KnujsW5XToxJd0xwveoNr4hjwdbF10YwFjcGRkXXTKSh1S" crossorigin="anonymous">
</head>
<body>

  <!-- Navbar -->
  <nav class="navbar navbar-expand-lg navbar-dark bg-primary">
    <div class="container-fluid">
      <a class="navbar-brand" href="#">My Website</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" href="#">Home</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="#">About</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="#">Services</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="#">Contact</a>
          </li>
        </ul>
      </div>
    </div>
  </nav>
```

```

    </div>
</nav>

<!-- 2-Column Layout -->
<div class="container my-4">
    <div class="row">
        <div class="col-md-6">
            <h2>Left Column</h2>
            <p>This is the left column in a two-column layout using
Bootstrap's grid system.</p>
        </div>
        <div class="col-md-6">
            <h2>Right Column</h2>
            <p>This is the right column in a two-column layout using
Bootstrap's grid system.</p>
        </div>
    </div>
</div>

<!-- Bootstrap Buttons -->
<div class="container my-4">
    <button type="button" class="btn btn-primary">Primary Button</button>
    <button type="button" class="btn btn-secondary">Secondary
Button</button>
</div>

<!-- Bootstrap Card -->
<div class="container my-4">
    <div class="card" style="width: 18rem;">
        
        <div class="card-body">
            <h5 class="card-title">Card Title</h5>
            <p class="card-text">Some quick example text to build on the
card title and make up the bulk of the card's content.</p>
            <a href="#" class="btn btn-primary">Go somewhere</a>
        </div>
    </div>
</div>

<!-- Bootstrap JS and Popper.js -->
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js
" integrity="sha384-
oBqDVmMz4fnF09gybU7rDZp7T4pHnTg5rB7yYoF5pvcgm90gGUb5ONmmg93f9V41X"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha1/dist/js/bootstrap.min.js" integrity="sha384-

```

```
cf8d/ZxwW0Gvkch2JlIuXshshZlT5Qlco5fHX+HCKJKATVtps1lH+g7D3FjN4D9z"
crossorigin="anonymous"></script>

</body>
</html>
```

OUTPUT

[My Website](#) 

- [Home](#)
- [About](#)
- [Services](#)
- [Contact](#)

Left Column

This is the left column in a two-column layout using Bootstrap's grid system.

Right Column

This is the right column in a two-column layout using Bootstrap's grid system.

Primary Button

Secondary Button

Card Title

Some quick example text to build on the card title and make up the bulk of the card's content.

[Go somewhere](#)

Challenge:

A small portfolio site using only Bootstrap components.

```
<!DOCTYPE html>
<html lang="en">
<head>
```

```

<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<title>Abdillah Ali - Portfolio</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet">
</head>
<body>

  <!-- Navbar -->
  <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
    <div class="container-fluid">
      <a class="navbar-brand" href="#">Abdillah Ali</a>
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
data-bs-target="#navbarNav">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="navbarNav">
        <ul class="navbar-nav ms-auto">
          <li class="nav-item"><a class="nav-link"
href="#about">About</a></li>
          <li class="nav-item"><a class="nav-link"
href="#skills">Skills</a></li>
          <li class="nav-item"><a class="nav-link"
href="#experience">Experience</a></li>
          <li class="nav-item"><a class="nav-link"
href="#education">Education</a></li>
          <li class="nav-item"><a class="nav-link"
href="#contact">Contact</a></li>
        </ul>
      </div>
    </div>
  </nav>

  <!-- Hero Section -->
  <div class="container mt-5">
    <div class="row align-items-center">
      <div class="col-md-6">
        <h1>Abdillah Ali</h1>
        <p class="lead">Full-Stack Developer | Frontend Engineer |
Freelancer</p>
        <a href="#contact" class="btn btn-primary">Contact Me</a>
      </div>
      <div class="col-md-6 text-center">
        
      </div>
    </div>
  </div>

```



```

<!-- About Section -->
<section id="about" class="bg-light py-5">
  <div class="container">
    <h2>About Me</h2>
    <p>I am a Full-Stack Software Developer and Frontend Engineer with expertise in MERN stack and Flutter. I also have skills in Python, cloud computing, digital marketing, and more. I enjoy building scalable and innovative solutions for the web and mobile platforms.</p>
  </div>
</section>

<!-- Skills Section -->
<section id="skills" class="py-5">
  <div class="container">
    <h2>Top Skills</h2>
    <div class="row">
      <div class="col-md-4">
        <div class="card">
          <div class="card-body">
            <h5 class="card-title">Web Development</h5>
            <p class="card-text">MERN Stack, WordPress, SEO</p>
          </div>
        </div>
      </div>
      <div class="col-md-4">
        <div class="card">
          <div class="card-body">
            <h5 class="card-title">Mobile Development</h5>
            <p class="card-text">Flutter, Dart</p>
          </div>
        </div>
      </div>
      <div class="col-md-4">
        <div class="card">
          <div class="card-body">
            <h5 class="card-title">Data & Business</h5>
            <p class="card-text">Python, Data Analysis, Digital
Marketing</p>
          </div>
        </div>
      </div>
    </div>
  </div>
</section>

<!-- Experience Section -->
<section id="experience" class="bg-light py-5">

```

```

<div class="container">
  <h2>Experience</h2>
  <ul>
    <li>Frontend Engineer - ThreeFold (Aug 2024 - Dec 2024)</li>
    <li>Business Development Associate - SHEDyt (Sept 2023 - Aug
2024)</li>
    <li>Software Sales - Nyxion.ai (Nov 2023 - Present)</li>
    <li>Sales Manager - ThreeFold (Feb 2023 - Present)</li>
    <li>Outreach Consultant - Operated by Excelebrate (Apr - May 2023)</li>
  </ul>
</div>
</section>

<!-- Education Section -->
<section id="education" class="py-5">
  <div class="container">
    <h2>Education</h2>
    <ul>
      <li>The State University of Zanzibar (BSc Computer Science, 2021 -
2025)</li>
      <li>PLP Academy (Software Engineering, Feb - Aug 2025)</li>
      <li>WorldQuant University (Applied Data Science, Jan - Jun 2025)</li>
    </ul>
  </div>
</section>

<!-- Contact Section -->
<section id="contact" class="bg-light py-5">
  <div class="container">
    <h2>Contact</h2>
    <p>Email: abdillahx132x@gmail.com</p>
    <p>WhatsApp: +255 710 960 019</p>
    <p>Location: Mtoni St, Urban/West region, Zanzibar, Tanzania</p>
    <p><a href="https://www.linkedin.com/in/ali-abdillah"
target="_blank">LinkedIn</a> | <a
href="https://sites.google.com/view/abdillah-aliportfolio/home"
target="_blank">Portfolio</a></p>
  </div>
</section>

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min
.js"></script>
</body>
</html>

```

OUTPUT


Abdillah Ali

AboutSkillsExperienceEducationContact

Abdillah Ali

Full-Stack Developer | Frontend Engineer | Freelancer

Contact Me



About Me

I am a Full-Stack Software Developer and Frontend Engineer with expertise in MERN stack and Flutter. I also have skills in Python, cloud computing, digital marketing, and more. I enjoy building scalable and innovative solutions for the web and mobile platforms.

Top Skills

Web Development

MERN Stack, WordPress, SEO

Mobile Development

Flutter, Dart

Data & Business

Python, Data Analysis, Digital Marketing

Experience

- Frontend Engineer - ThreeFold (Aug 2024 - Dec 2024)
- Business Development Associate - SHEDyt (Sept 2023 - Aug 2024)
- Software Sales - Nyxion.ai (Nov 2023 - Present)
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Education

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Contact

Email: abdillahx132x@gmail.com

WhatsApp: +255 710 960 019

Location: Mtoni St, Urban/West region, Zanzibar, Tanzania

[LinkedIn](#) | [Portfolio](#)

Q: What are the benefits of using a CSS framework like Bootstrap?

- Saves development time with pre-built components and styles
- Ensures responsive design with a mobile-first approach
- Provides consistent styling across different browsers
- Offers a grid system for easy layout management

- Includes built-in support for accessibility and interactivity

Q: What is the difference between container, container-fluid, and row in Bootstrap?

- container: Provides a fixed-width layout that adapts to screen size with predefined breakpoints.
- container-fluid: Expands to fill the full width of the viewport, regardless of screen size.
- row: Used inside containers to create horizontal groups of columns in the grid system—ensures proper alignment and spacing.