

Full Stack Application Development with MS Azure Cloud

Module 2 – Front-End Development Tools, Technologies and Frameworks

Lab Practical Manual

Unit 4 - Front-End Frameworks - Bootstrap

Topic: Bootstrap Containers & Grid - Solved Question

Lab 3: Creating a responsive layout using Bootstrap's containers and the grid system. Follow the instructions below to achieve the desired outcome:

Create an HTML page. Integrate Bootstrap into your HTML page by including the necessary CSS and JavaScript files from the provided Bootstrap.

```
<!DOCTYPE html>
<html>
<head>
  <title>Custom Styled Containers & Grid</title>
  <!-- Include Bootstrap CSS -->
  k rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <!-- Custom CSS styles -->
  <style>
    body {
       background-color: #f0f0f0;
       font-family: Arial, sans-serif;
    }
    .container {
       margin-top: 50px;
    }
    .custom-header {
       text-align: center;
```



```
background-color: #3498db;
       color: #fff;
       padding: 20px;
       border-radius: 10px;
       margin-bottom: 30px;
    }
     .custom-column {
       padding: 20px;
       border-radius: 10px;
       box-shadow: 0px 2px 5px rgba(0, 0, 0, 0.1);
       margin-bottom: 20px;
    }
     .custom-primary {
       background-color: #27ae60;
       color: #fff;
    }
     .custom-secondary {
       background-color: #e74fff;
       color: #fff;
    }
    h3 {
       margin-top: 0;
    }
  </style>
</head>
<body>
  <!-- Custom Container for the main content -->
  <div class="container">
     <div class="custom-header">
       <h1>Custom Styled Layout with Containers & Grid</h1>
     </div>
```

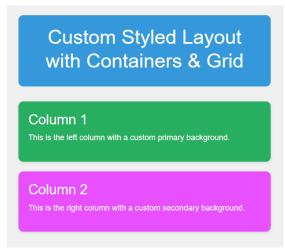


```
<!-- Custom Grid system for responsive layout -->
    <div class="row">
       <div class="col-md-6">
         <div class="custom-column custom-primary">
            <h3>Column 1</h3>
            This is the left column with a custom primary background.
         </div>
       </div>
       <div class="col-md-6">
         <div class="custom-column custom-secondary">
            <h3>Column 2</h3>
            This is the right column with a custom secondary
background.
         </div>
       </div>
    </div>
  </div>
  <!-- Include Bootstrap JS and Popper.js -->
  <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js">
</script>
  <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></sc
ript>
</body>
</html>
```

Output:







Unsolved Question

Lab 4: Creating a responsive layout for a portfolio webpage using Bootstrap's containers and the grid system.

- Create an HTML page.
- Integrate Bootstrap into your HTML page by including the necessary CSS and JavaScript files from the provided Bootstrap
- Create a Bootstrap container to hold the main content.
- Divide the container into different columns using the Bootstrap grid system.
- Place an image inside each column.
- Apply custom CSS to style the images and text content. Use appropriate spacing, fonts, and colors to enhance the presentation.