

Lahore Garrison

University

DHA Phase 6 Lahore



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Section	G
Subject	Web Technologies
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Lab 7: Responsive Design with Flexbox & Bootstrap Guide

Task 1:

Convert a Static Layout to a Flexbox Layout

Index.html :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Flexbox Layout Example</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <header>
    <h1>Website Header</h1>
  </header>
  <div class="main-container">
    <main class="content">
      <h2>Main Content</h2>
      <p>
        This is the main content area. It takes up more space compared
        to the sidebar using Flexbox.
      </p>
    </main>
    <aside class="sidebar">
      <h2>Sidebar</h2>
      <p>
        This is the sidebar section, useful for navigation links or
        additional information.
      </p>
    </aside>
  </div>
  <footer>
    <p>Website Footer</p>
  </footer>
</body>
```

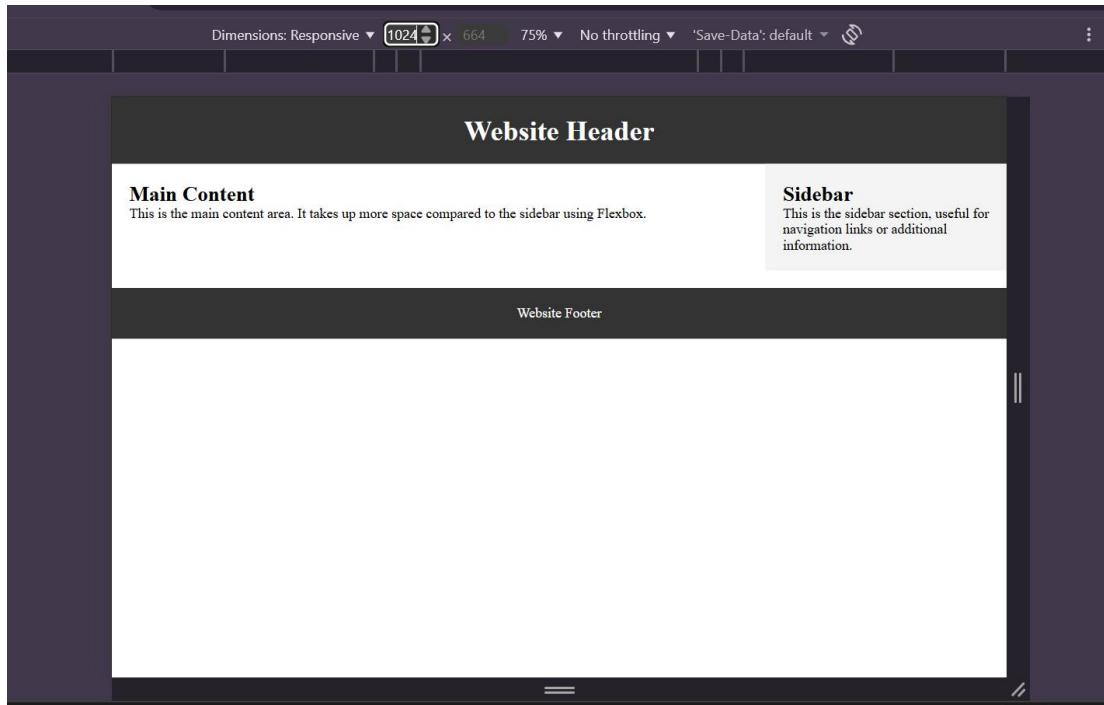
```
</html>
```

style.css :

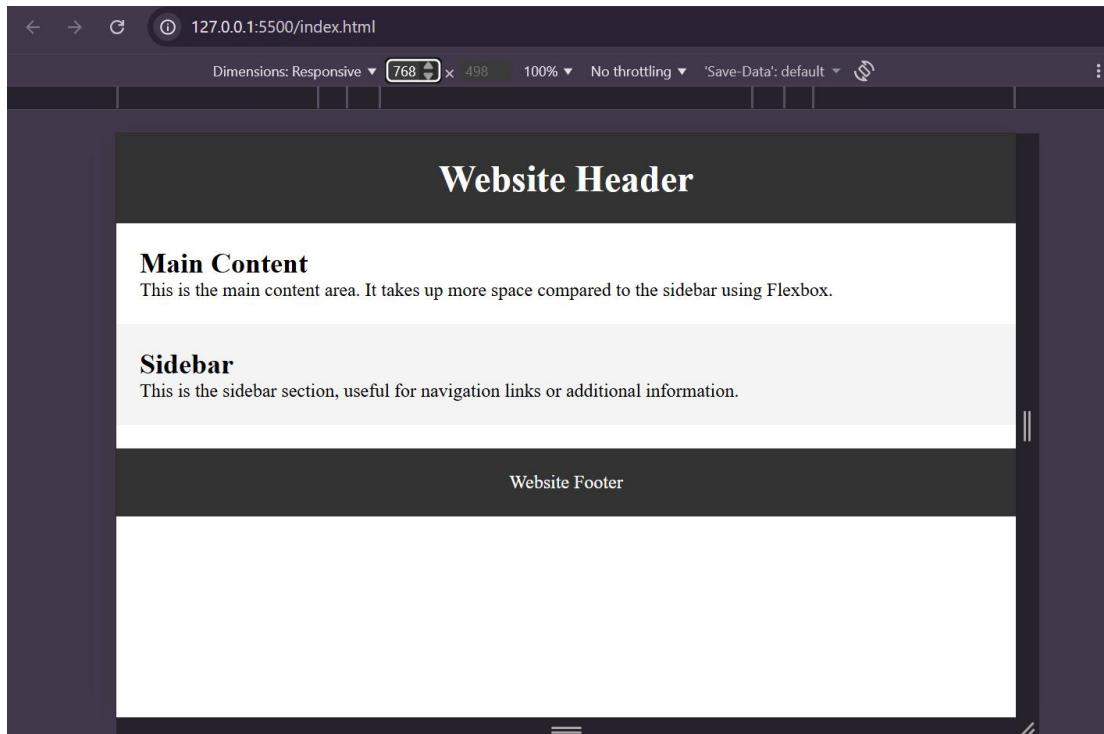
```
* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}
header, footer {
    background-color: #333;
    color: white;
    text-align: center;
    padding: 20px;
}
.main-container {
    display: flex;
    width: 100%;
    max-width: 1200px;
    margin: 0 auto;
}
.content {
    flex: 3;
    padding: 20px;
}
.sidebar {
    flex: 1;
    padding: 20px;
    background-color: #f4f4f4;
}
footer {
    margin-top: 20px;
}
@media (max-width: 768px) {
    .main-container {
        flex-direction: column;
    }
}
```

Task 2: Add Media Queries to Adjust Layout

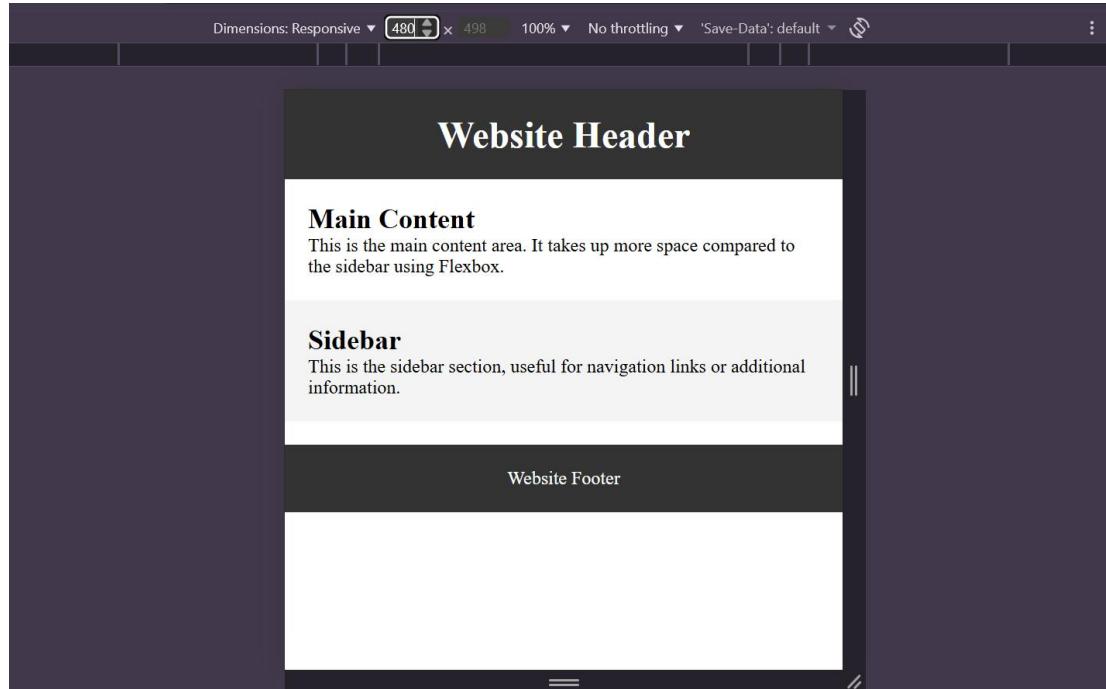
Desktop View:



Tablet View:



Mobile View:



Task 3: Recreate a Component Using Bootstrap Classes

Index.html:

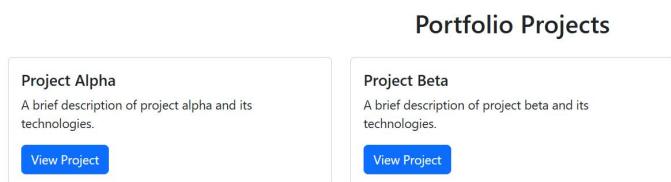
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Flexbox Layout Example</title>
  <link
    href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.
    css"
    rel="stylesheet"
    integrity="sha384-
    QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhj
    Y6hW+ALEwiH"
    crossorigin="anonymous">
<script
  src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundl
  e.min.js"
  integrity="sha384-
    YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdsIK1
```

```
eN7N6jIeHz"
    crossorigin="anonymous"></script>
</head>
<body>
    <section class="container my-5">
        <h2 class="text-center mb-4">Portfolio Projects</h2>

        <div class="row row-cols-1 row-cols-md-3 g-4">

            <div class="col">
                <div class="card h-100">
                    <div class="card-body">
                        <h5 class="card-title">Project Alpha</h5>
                        <p class="card-text">A brief description of project alpha and its technologies.</p>
                        <a href="#" class="btn btn-primary">View Project</a>
                    </div>
                </div>
            </div>
            <div class="col">
                <div class="card h-100">
                    <div class="card-body">
                        <h5 class="card-title">Project Beta</h5>
                        <p class="card-text">A brief description of project beta and its technologies.</p>
                        <a href="#" class="btn btn-primary">View Project</a>
                    </div>
                </div>
            </div>
        </div>
    </section>
</body>
</html>
```

Output:



CONCLUSION:

RUBRICS:

Performance			Lab Report		
Description	Total Marks	Marks Obtained	Description	Total Marks	Marks Obtained
Ability to Conduct practical	5		Structure	5	
Data Analysis & Interpretation	5		Efficiency	5	
Total Marks obtained			Total Marks Obtained		

Instructor Signature _____