

# Lahore Garrison

# University

## DHA Phase 6 Lahore

### Lab Task 7



<b>Student Name</b>	Ateeb Qaiser
<b>Student Roll No</b>	Fa23/BSCS/279
<b>Section</b>	G
<b>Subject</b>	Web Technologies Lab
<b>Instructor Name</b>	Mr. M Yousaf

# 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>
```

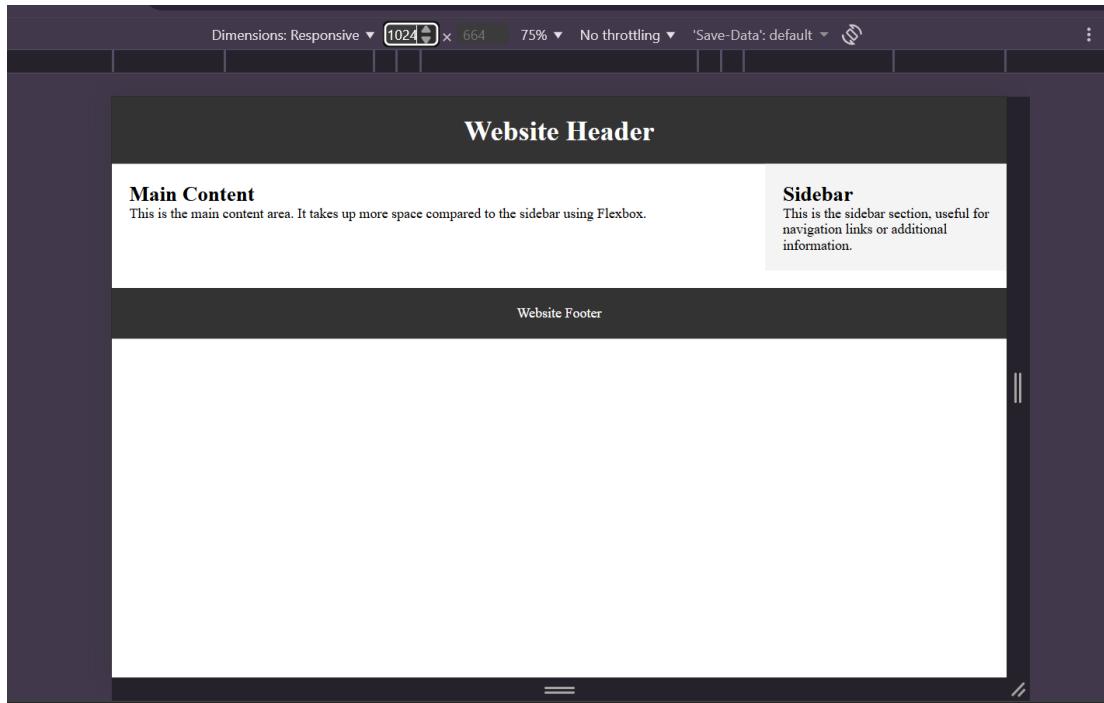
```
</html>
```

## style.css :

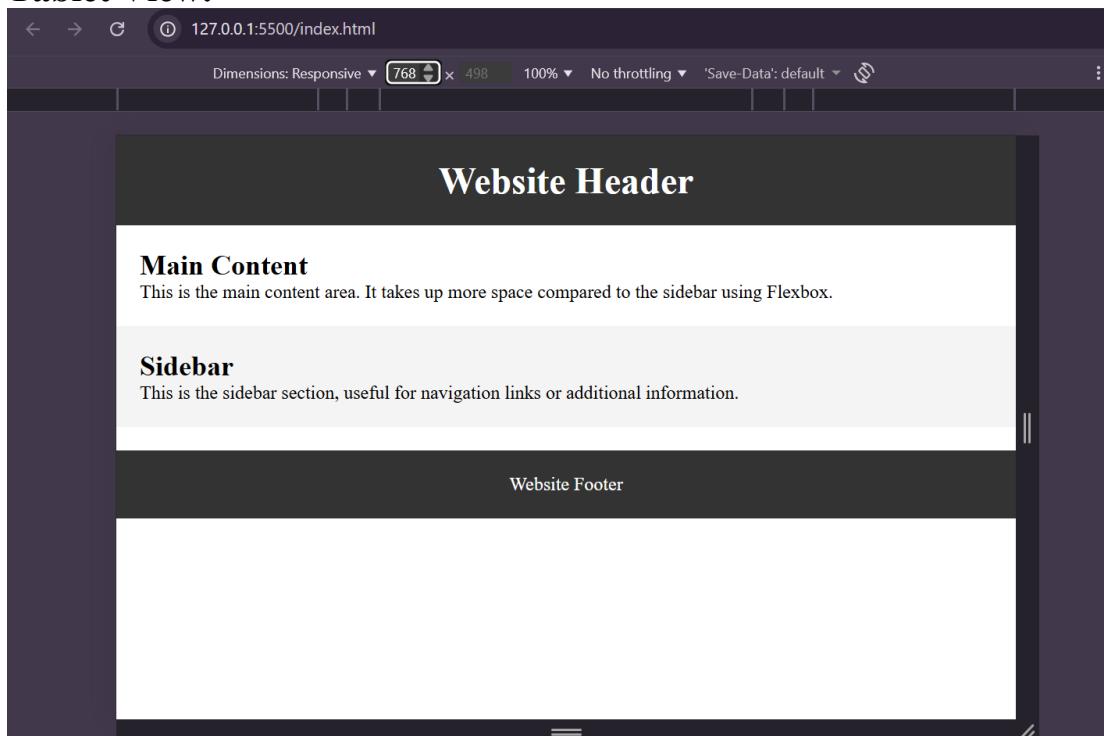
```
* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}
header, footer {
    background-color: #333;
    color: white;
    text-align: center;
    padding: 20px;
}
.main-container {
    display: flex;
    width: 100%;
    max-width: 1200px;
    margin: 0 auto;
}
.content {
    flex: 3;
    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

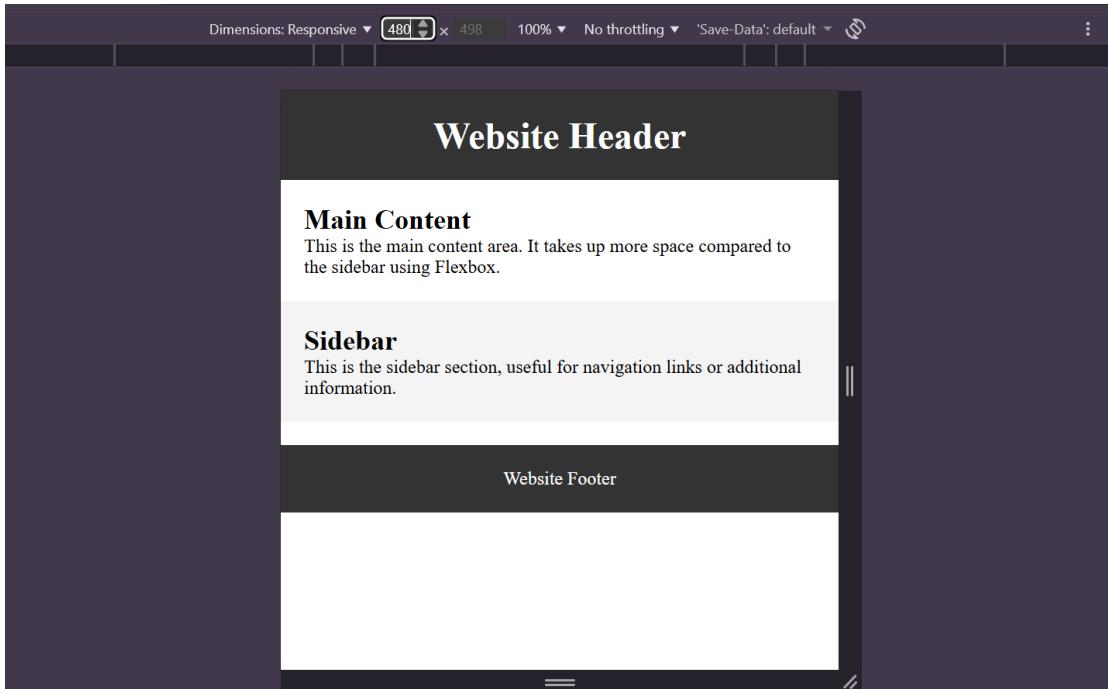
### Desktop View:



### 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.bundle.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:

## Portfolio Projects

## **CONCLUSION:**

**In this lab, I created a responsive webpage using Flexbox, Media Queries, and Bootstrap. The layout adjusts correctly for desktop, tablet, and mobile screens. Bootstrap components were used to enhance the design and make the interface more modern.**

## **RUBRICS:**

Performance			Lab Report		
Description	Total Marks	Marks Obtained	Description	Total Marks	Marks Obtained
<b>Ability to Conduct practical</b>	5		<b>Structure</b>	5	
<b>Data Analysis &amp; Interpretation</b>	5		<b>Efficiency</b>	5	
<b>Total Marks obtained</b>			<b>Total Marks Obtained</b>		

Instructor Signature \_\_\_\_\_