

# Lahore Garrison University

DHA Phase 6 Lahore



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<b>Section</b>	<b>G</b>
<b>Subject</b>	<b>Web Technologies</b>
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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>
```

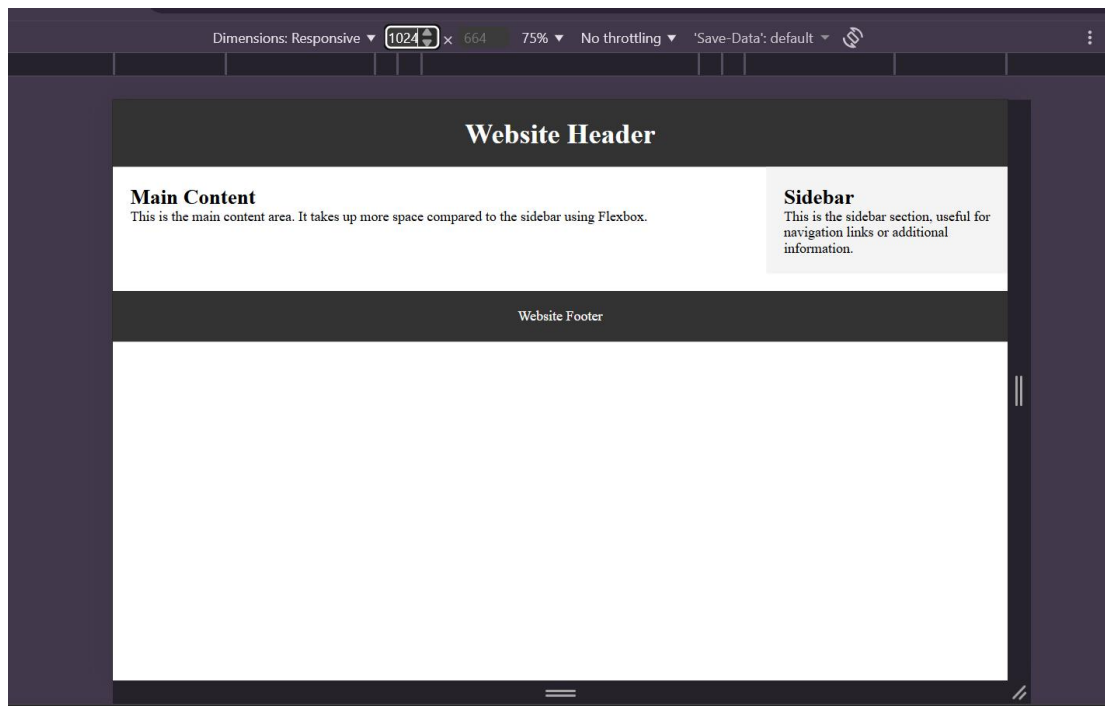
</html>

## style.css :

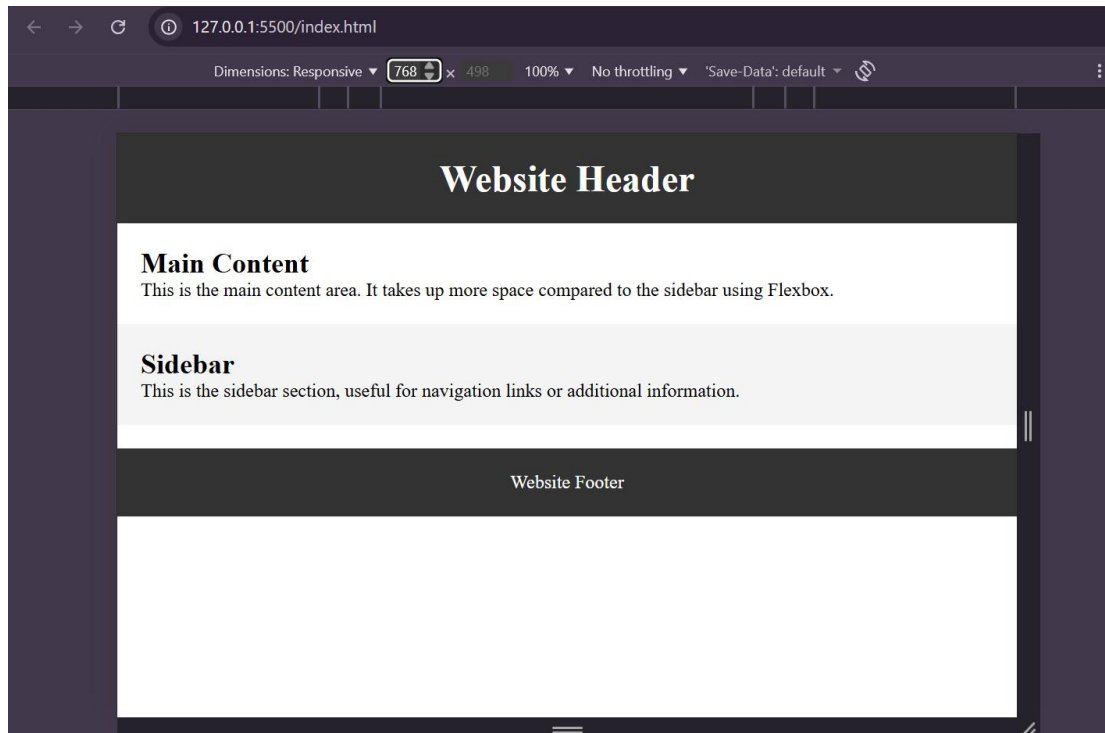
```
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}
header, footer {
  background-color: #333;
  color: white;
  text-align: center;
  padding: 20px;
}
.main-container {
  display: flex;
  width: 100%;
  max-width: 1200px;
  margin: 0 auto;
}
.content {
  flex: 3;
  padding: 20px;
}
.sidebar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

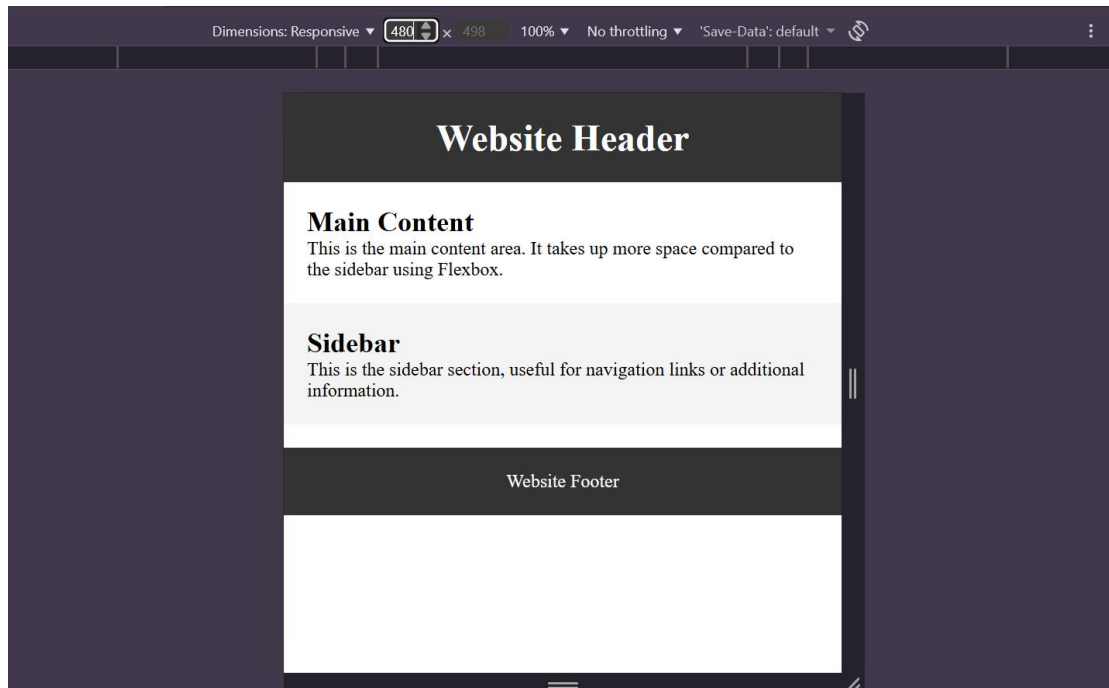
### Desktop View:



### 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-
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1
```

```

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

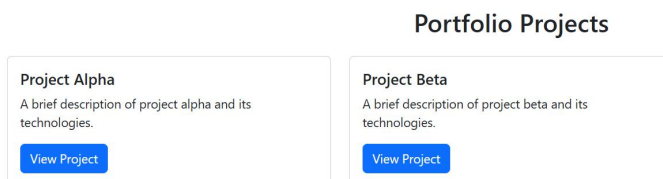
    <div class="row row-cols-1 row-cols-md-3 g-4">

      <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:

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**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 \_\_\_\_\_