**Subject/Odd Sem 2023-23/Experiment 3**

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**Title of Experiment :Personal portfolio.**

**Objective of Experiment : The objective of this experiment is to create a responsive and visually appealing web page for showcasing services within a portfolio website using Bootstrap, a popular front-end framework.**

**Outcome of Experiment : The outcome of this experiment is a well-designed web page that effectively presents services through responsive service cards, a**

**navigation bar, a breadcrumb, and custom CSS enhancements for a visually engaging user experience.**

**Problem Statement : Enhance your personal website that you made in Experiment 01 and 02 using Bootstrap.**

**Description / Theory :**

The provided HTML code is a web page for a services section of a portfolio website and it utilizes Bootstrap to enhance the design and functionality. Let's break down how and which Bootstrap features are used in this code:

1. **Bootstrap CSS and JavaScript Libraries**:

○ Bootstrap's CSS and JavaScript libraries are included using external links to ensure the Bootstrap styles and functionality are available for the web page. These libraries are included at the end of the **<head>** and **<body>** sections.

1. **Navbar**:

○ The **<nav>** element with the class **navbar** is used for the website's navigation bar.

○ Bootstrap classes like **navbar-expand-lg**, **navbar-dark**, and **bg-dark** are used to control the appearance and behavior of the navigation bar.

1. **Breadcrumb**:

○ Bootstrap's breadcrumb component is used to create a breadcrumb navigation structure. It is styled using Bootstrap's breadcrumb classes.

1. **Jumbotron**:

○ The Jumbotron component creates a large, prominent heading for the services section.

○ Bootstrap classes like **jumbotron** and **display-4** are used to style the Jumbotron and headings.

1. **Grid System**:

○ Bootstrap's grid system is used to create a responsive layout for the service cards.

○ The **<div>** elements with classes like **container** and **row** help structure the layout.

○ Each service card is placed within a **<div>** with class **col-md-4**, making use of the responsive grid system.

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1. **Service Cards**:
   1. Bootstrap's card component is used to create service cards. Each card contains an image, title, and a button that toggles a description.

○ Card classes are utilized, such as **card**, **card-body**, **card-title**, and **card-img-top**.

○ The **data-toggle** and **data-target** attributes on the button elements trigger the card description collapse when the "Learn More" button is clicked.

1. **Custom CSS**:
   1. Custom CSS is used to style the service cards. This includes setting the height and width of images, defining hover effects, and creating a floating message.

○ The custom CSS is added within a **<style>** element in the **<head>** section.

1. **Floating Message**:
   1. A floating message bar is created and animated using custom CSS. It has a red background color and moves horizontally across the top of the screen.

○ The message bar is defined with the class **service-message** and animated using keyframes.

**Program :**

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| <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Services - Khushi's Portfolio</title>  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"> <style>  /\* Custom CSS for card animations, size, and positioning \*/  .card { transition: transform 0.3s ease-in-out; text-align: center; padding: 20px; height: 250px;  }  .card img { height: 100px; /\* Set the height of the images \*/ width: 100px; /\* Set the width of the images \*/ object-fit: cover; transition: transform 0.5s ease-in-out;  }  .card:hover img { transform: scale(1.2);  }  .card:hover { transform: scale(1.05);  }  /\* Custom CSS for the floating message \*/  .service-message { position: fixed; top: 0; left: 0; |

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| right: 0; background-color: #dc3545; color: #fff; text-align: center; padding: 10px; animation: moveMessage 5s linear infinite;  }  @keyframes moveMessage {  0% {  left: -100%; transform: translateX(-100%);  }  100% {  left: 100%; transform: translateX(100%);  }  }  </style>  </head>  <body>  <!-- Navigation Bar -->  <nav class="navbar navbar-expand-lg navbar-dark bg-dark">  <a class="navbar-brand" href="/">Khushi's Portfolio</a>  <button class="navbar-toggler" type="button" data-toggle="collapse" data-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 ml-auto">  <li class="nav-item">  <a class="nav-link" href="home.html">Home</a>  </li>  <li class="nav-item">  <a class="nav-link" href="about.html">About</a>  </li>  <li class="nav-item active">  <a class="nav-link" href="services.html">Services</a> |

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| </li>  <li class="nav-item">  <a class="nav-link" href="projects.html">Projects</a>  </li>  <li class="nav-item">  <a class="nav-link" href="contact.html">Contact Me</a>  </li>  </ul>  </div>  </nav>  <!-- Breadcrumb -->  <nav aria-label="breadcrumb">  <ol class="breadcrumb">  <li class="breadcrumb-item"><a href="home.html">Home</a></li>  <li class="breadcrumb-item"><a href="services.html">Services</a></li>  <li class="breadcrumb-item active" aria-current="page">Service Page</li>  </ol>  </nav>  <!-- Jumbotron -->  <div class="jumbotron jumbotron-fluid">  <div class="container">  <h1 class="display-4">Our Services</h1>  <p class="lead">We offer a wide range of services to meet your needs.</p>  </div>  </div>  <!-- Bootstrap Grid System - Service Cards with Toggle -->  <div class="container">  <div class="row">  <div class="col-md-4">  <div class="card">  <img src="asset/service1.jpg" class="card-img-top mx-auto" alt="Service 1">  <div class="card-body">  <h5 class="card-title">Service 1</h5>  <button class="btn btn-primary" data-toggle="collapse" data-target="#service1">Learn More</button>  </div>  <div id="service1" class="collapse"> Description of service 1.  </div>  </div>  </div> |

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| <div class="col-md-4">  <div class="card">  <img src="asset/service2.jpg" class="card-img-top mx-auto" alt="Service 2">  <div class="card-body">  <h5 class="card-title">Service 2</h5>  <button class="btn btn-primary" data-toggle="collapse" data-target="#service2">Learn More</button>  </div>  <div id="service2" class="collapse"> Description of service 2.  </div>  </div>  </div>  <div class="col-md-4">  <div class="card">  <img src="asset/service3.jpg\" class="card-img-top mx-auto" alt="Service 3">  <div class="card-body">  <h5 class="card-title">Service 3</h5>  <button class="btn btn-primary" data-toggle="collapse" data-target="#service3">Learn More</button>  </div>  <div id="service3" class="collapse"> Description of service 3.  </div>  </div>  </div>  </div>  </div>  <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>  <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js"></script>  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>  </body>  </html> |

**Results and Discussions :**