MIT Art, Design and Technology University
MIT School of Computing, Pune

Department of Information Technology

SUBJECT – FULL STACK FRONT END DEVELOPMENT

COURSE CODE – 23IT3001

Class - T.Y. SMAD

Name of the Student

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Under the Guidance of

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A.Y. 2025 – 2026 (SEM-V)

Aim:

The aim of this assignment is to design and develop a **responsive static homepage using the Bootstrap framework.**
The goal is to understand how Bootstrap simplifies front-end design through pre-defined classes, grid systems, and responsive utilities.
The layout should demonstrate the use of major Bootstrap components such as containers, headers, buttons, navigation bars, and the grid system to create a visually balanced and adaptive homepage that adjusts seamlessly across different screen sizes and devices.

Theory

What is Bootstrap?

Bootstrap is a **popular front-end framework** used for building **responsive and mobile-first websites** efficiently. It provides pre-designed CSS and JavaScript components such as navigation bars, grids, buttons, and modals, helping developers create modern layouts with less code.

Features of Bootstrap

1. **Responsive Grid System:** Based on a 12-column layout that automatically adjusts content across different screen sizes.
2. **Predefined Components:** Includes ready-to-use UI elements like navbars, buttons, cards, and modals.
3. **Utility Classes:** Helps manage spacing, alignment, and typography easily.
4. **Mobile-First Design:** Designed primarily for mobile devices and scaled up for larger screens.
5. **Cross-Browser Compatibility:** Works smoothly across all modern browsers.

Working of a Bootstrap Homepage

A homepage designed with Bootstrap generally consists of:

- A **container** to hold all page elements neatly aligned.
- A **navigation bar (navbar)** with brand name and menu links that collapses into a toggle menu on smaller screens.
- A **hero or jumbotron section** highlighting the main message or purpose of the website with call-to-action buttons.
- **Feature sections** organized using rows and columns for a clean layout.
- A **footer** containing contact information or copyright details.

Bootstrap ensures that the homepage automatically adjusts the structure and alignment across devices like laptops, tablets, and smartphones — without needing extra CSS.

Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Bootstrap Static Homepage</title>
  <!-- Bootstrap CSS -->
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet" />
  <style>
    body {
      font-family: 'Poppins', sans-serif;
      scroll-behavior: smooth;
    }
    .hero {
      background: linear-gradient(90deg, #007bff, #00b4d8);
      color: white;
      padding: 100px 20px;
    }
    .feature-icon {
      font-size: 40px;
      color: #007bff;
    }
    footer {
      background-color: #212529;
      color: white;
      padding: 20px 0;
    }
  </style>
</head>
<body>
  <!-- Navbar Section -->
  <nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top shadow-sm">
    <div class="container">
      <a class="navbar-brand fw-bold" href="#">Suhasini's App</a>
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarNav">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="navbarNav">
        <ul class="navbar-nav ms-auto">
          <li class="nav-item"><a class="nav-link active" href="#">Home</a></li>
          <li class="nav-item"><a class="nav-link" href="#">About</a></li>
          <li class="nav-item"><a class="nav-link" href="#">Services</a></li>
          <li class="nav-item"><a class="nav-link" href="#">Contact</a></li>
        </ul>
      </div>
    </div>
  </nav>

  <!-- Hero Section -->
```

```html
<section class="hero text-center">
  <div class="container">
    <h1 class="display-4 fw-bold">Welcome to My Web Application</h1>
    <p class="lead mt-3">
      This is a responsive homepage layout designed using Bootstrap.<br>
      It automatically adjusts for mobile, tablet, and desktop screens.
    </p>
    <a href="#" class="btn btn-light btn-lg mt-3 fw-bold">Get Started</a>
    <a href="#" class="btn btn-outline-light btn-lg mt-3 fw-bold">Learn More</a>
  </div>
</section>

<!-- Features Section -->
<section class="container my-5 py-4">
  <h2 class="text-center mb-4 fw-bold text-primary">Our Features</h2>
  <div class="row text-center">
    <div class="col-md-4 mb-4">
      <div class="p-4 border rounded shadow-sm h-100">
        <div class="feature-icon mb-3">💡</div>
        <h5 class="fw-bold">Creative Design</h5>
        <p class="text-muted">Modern, clean, and fully responsive layouts ensuring the
best user experience.</p>
        <button class="btn btn-primary">Read More</button>
      </div>
    </div>
    <div class="col-md-4 mb-4">
      <div class="p-4 border rounded shadow-sm h-100">
        <div class="feature-icon mb-3">⚙</div>
        <h5 class="fw-bold">Easy Integration</h5>
        <p class="text-muted">Bootstrap's flexible grid system allows easy integration in
any web project.</p>
        <button class="btn btn-primary">Read More</button>
      </div>
    </div>
    <div class="col-md-4 mb-4">
      <div class="p-4 border rounded shadow-sm h-100">
        <div class="feature-icon mb-3">🚀</div>
        <h5 class="fw-bold">Fast Performance</h5>
        <p class="text-muted">Optimized layouts ensure smooth performance and faster
loading times.</p>
        <button class="btn btn-primary">Read More</button>
      </div>
    </div>
  </div>
</section>

<!-- Call to Action -->
<section class="bg-light py-5">
  <div class="container text-center">
    <h2 class="fw-bold mb-3">Start Building Your Own Website</h2>
    <p class="text-muted mb-4">
      Use Bootstrap to create responsive and beautiful web interfaces quickly and easily.
    </p>
    <a href="#" class="btn btn-success btn-lg fw-bold">Create Now</a>
  </div>
```

```
    </section>

    <!-- Footer -->
    <footer class="text-center">
      <div class="container">
        <p class="mb-0">&copy; 2025 Suhasini's App. All Rights Reserved.</p>
      </div>
    </footer>

    <!-- Bootstrap JS -->
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```

Output:

Conclusion:

This assignment successfully demonstrates the creation of a responsive static homepage using the Bootstrap 5 framework.

Through this, I learned how to use Bootstrap's grid system, responsive classes, and UI components to build a professional homepage layout without writing extensive CSS.

The final webpage adapts perfectly to mobile, tablet, and desktop screens reflecting a complete understanding of Bootstrap's mobile-first design approach.

Assignment 2: Bootstrap Grid

Aim:

The aim of this assignment is to design a responsive, multi-column information layout using Bootstrap's 12-column grid system that displays structured content blocks such as travel blogs, destination cards, or tour highlights. The objective is to demonstrate proper alignment, spacing, and responsiveness across all screen sizes using Bootstrap's container, row, and column utilities.

Theory:

Bootstrap's grid system is a powerful tool for building responsive layouts without writing custom CSS media queries. It divides a page into 12 equal columns, allowing flexible combinations of column widths using classes like col-lg-4, col-md-6, and col-sm-12. This structure automatically adjusts across different device sizes, making the design mobile-first and adaptive.

In this assignment, a grid-based travel page layout is created using Bootstrap's container, row, and col classes. Each travel destination is represented through a Bootstrap card containing an image, title, short description, and a "View Details" button. These cards automatically align into 3 columns on large screens, 2 on tablets, and a single column on smaller devices.

Bootstrap's utility classes such as g-4, shadow, and rounded ensure consistent spacing, alignment, and elegant design. Cards are enhanced using prebuilt classes like card-body, card-title, and card-text, while typography and color schemes are controlled through classes like text-primary, text-muted, and bg-light.

A simple footer styled with bg-dark and text-white provides closure to the layout. This structure demonstrates Bootstrap's ability to manage complex responsive layouts easily while maintaining aesthetic balance and uniformity.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Bootstrap Travel Grid Page</title>
  <!-- Bootstrap CSS -->
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet" />
  <style>
    body {
      font-family: 'Poppins', sans-serif;
      background-color: #f4f9f9;
    }
```

```css
    .page-header {
      background: linear-gradient(90deg, #20c997, #198754);
      color: white;
      text-align: center;
      padding: 60px 0;
      box-shadow: 0 3px 8px rgba(0, 0, 0, 0.2);
    }
    .card img {
      height: 220px;
      object-fit: cover;
    }
  </style>
</head>
<body>

  <!-- Header -->
  <header class="page-header mb-5">
    <div class="container">
      <h1 class="fw-bold">Top Travel Destinations</h1>
      <p class="lead">Discover beautiful places around the world and plan your next
adventure.</p>
    </div>
  </header>

  <!-- Grid Section -->
  <div class="container mb-5">
    <div class="row g-4">
      <!-- Card 1 -->
      <div class="col-lg-4 col-md-6">
        <div class="card shadow border-0">
          <img src="https://picsum.photos/400/220?travel1" class="card-img-top"
alt="Destination 1">
          <div class="card-body">
            <h5 class="card-title text-success fw-bold">Paris, France</h5>
            <p class="card-text text-muted">Experience the romance of the Eiffel Tower, art,
and fine dining in the heart of Europe.</p>
            <a href="#" class="btn btn-outline-success btn-sm">View Details</a>
          </div>
        </div>
      </div>

      <!-- Card 2 -->
      <div class="col-lg-4 col-md-6">
        <div class="card shadow border-0">
          <img src="https://picsum.photos/400/220?travel2" class="card-img-top"
alt="Destination 2">
          <div class="card-body">
            <h5 class="card-title text-success fw-bold">Kyoto, Japan</h5>
            <p class="card-text text-muted">Visit serene temples, cherry blossoms, and
traditional tea houses in Kyoto.</p>
            <a href="#" class="btn btn-outline-success btn-sm">View Details</a>
          </div>
        </div>
      </div>
```

```html
      <!-- Card 3 -->
      <div class="col-lg-4 col-md-6">
        <div class="card shadow border-0">
          <img src="https://picsum.photos/400/220?travel3" class="card-img-top"
alt="Destination 3">
          <div class="card-body">
            <h5 class="card-title text-success fw-bold">Bali, Indonesia</h5>
            <p class="card-text text-muted">Enjoy stunning beaches, tropical forests, and
tranquil villas surrounded by nature.</p>
            <a href="#" class="btn btn-outline-success btn-sm">View Details</a>
          </div>
        </div>
      </div>

      <!-- Card 4 -->
      <div class="col-lg-4 col-md-6">
        <div class="card shadow border-0">
          <img src="https://picsum.photos/400/220?travel4" class="card-img-top"
alt="Destination 4">
          <div class="card-body">
            <h5 class="card-title text-success fw-bold">Rome, Italy</h5>
            <p class="card-text text-muted">Explore ancient history, the Colosseum, and
authentic Italian cuisine.</p>
            <a href="#" class="btn btn-outline-success btn-sm">View Details</a>
          </div>
        </div>
      </div>

      <!-- Card 5 -->
      <div class="col-lg-4 col-md-6">
        <div class="card shadow border-0">
          <img src="https://picsum.photos/400/220?travel5" class="card-img-top"
alt="Destination 5">
          <div class="card-body">
            <h5 class="card-title text-success fw-bold">New York, USA</h5>
            <p class="card-text text-muted">Experience the vibrant city life, skyscrapers,
and culture of New York City.</p>
            <a href="#" class="btn btn-outline-success btn-sm">View Details</a>
          </div>
        </div>
      </div>

      <!-- Card 6 -->
      <div class="col-lg-4 col-md-6">
        <div class="card shadow border-0">
          <img src="https://picsum.photos/400/220?travel6" class="card-img-top"
alt="Destination 6">
          <div class="card-body">
            <h5 class="card-title text-success fw-bold">Santorini, Greece</h5>
            <p class="card-text text-muted">Marvel at the white-washed houses and beautiful
sunsets overlooking the Aegean Sea.</p>
            <a href="#" class="btn btn-outline-success btn-sm">View Details</a>
          </div>
        </div>
      </div>
```

```html
        </div>
    </div>

    <!-- Footer -->
    <footer class="bg-dark text-white text-center py-3">
        <p class="mb-0">&copy; 2025 Travel Grid | Designed by Suhasini Nanaware</p>
    </footer>

    <!-- Bootstrap JS -->
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```

Output:

Top Travel Destinations

Discover beautiful places around the world and plan your next adventure.

Paris, France

Experience the romance of the Eiffel Tower, art, and fine dining in the heart of Europe.

View Details

Kyoto, Japan

Visit serene temples, cherry blossoms, and traditional tea houses in Kyoto.

View Details

Bali, Indonesia

Enjoy stunning beaches, tropical forests, and tranquil villas surrounded by nature.

View Details

Rome, Italy

Explore ancient history, the Colosseum, and authentic Italian cuisine.

View Details

New York, USA

Experience the vibrant city life, skyscrapers, and culture of New York City.

View Details

Santorini, Greece

Marvel at the white-washed houses and beautiful sunsets overlooking the Aegean Sea.

View Details

Conclusion:

We successfully designed a responsive multi-column layout using **Bootstrap's grid system**. The project demonstrated how the grid structure automatically adapts to various screen sizes without extra CSS or media queries. Using Bootstrap's utility classes made the layout professional, balanced, and easily extendable.

Assignment 3: Bootstrap Form and Table

Aim:

The aim of this assignment is to implement Bootstrap's form and table components in a responsive web layout for a café's checkout and user profile sections. The objective is to use classes like form-control, form-group, and Bootstrap's validation utilities for structured and user-friendly form input. Tables are used to display cart and order details, demonstrating Bootstrap's consistency and responsiveness in form and data presentation.

Theory:

Bootstrap provides pre-styled components that simplify creating consistent, responsive forms and tables. The form elements automatically align with proper spacing, while validation classes visually indicate input correctness. The form-control and form-select classes standardize all inputs, while the needs-validation and was-validated classes enable validation feedback without custom JavaScript.

The layout uses Bootstrap's grid system to position form fields responsively — displaying side-by-side inputs on large screens and stacking them vertically on smaller ones. Similarly, Bootstrap tables use built-in classes like table-striped, table-bordered, and table-hover for clean, structured data visualization.

By integrating forms and tables, this assignment shows how Bootstrap maintains uniformity between user input areas and data display, ensuring a professional and responsive interface across all devices.

Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Bootstrap Café Checkout and Profile</title>
  <!-- Bootstrap CSS -->
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet">
  <style>
    body {
      font-family: 'Poppins', sans-serif;
      background-color: #f8f9fa;
    }
```

```
      .section-title {
        text-align: center;
        color: #d63384;
        font-weight: 600;
        margin: 40px 0 25px;
      }
      .btn-custom {
        background-color: #d63384;
        color: white;
        font-weight: 600;
      }
      .btn-custom:hover {
        background-color: #bb2d6b;
      }
    </style>
  </head>
  <body>

    <div class="container my-5">

      <!-- Checkout Form -->
      <h2 class="section-title">Café Checkout Form</h2>
      <form class="shadow p-4 bg-white rounded needs-validation" novalidate>
        <div class="row mb-3">
          <div class="col-md-6">
            <label class="form-label">Full Name</label>
            <input type="text" class="form-control" required>
            <div class="invalid-feedback">Please enter your full name.</div>
          </div>
          <div class="col-md-6">
            <label class="form-label">Email Address</label>
            <input type="email" class="form-control" required>
            <div class="invalid-feedback">Please enter a valid email.</div>
          </div>
        </div>

        <div class="row mb-3">
          <div class="col-md-6">
            <label class="form-label">Delivery Address</label>
            <input type="text" class="form-control" required>
            <div class="invalid-feedback">Please enter your address.</div>
          </div>
          <div class="col-md-6">
            <label class="form-label">City</label>
            <input type="text" class="form-control" required>
            <div class="invalid-feedback">Please enter your city.</div>
          </div>
        </div>

        <div class="row mb-3">
          <div class="col-md-4">
            <label class="form-label">Pincode</label>
            <input type="text" class="form-control" required>
          </div>
          <div class="col-md-4">
```

```html
        <label class="form-label">Phone Number</label>
        <input type="text" class="form-control" required>
      </div>
      <div class="col-md-4">
        <label class="form-label">Payment Method</label>
        <select class="form-select" required>
          <option selected disabled>Choose...</option>
          <option>Credit Card</option>
          <option>Debit Card</option>
          <option>UPI</option>
          <option>Cash on Delivery</option>
        </select>
      </div>
    </div>

    <button class="btn btn-custom w-100 mt-3" type="submit">Place Order</button>
</form>

<!-- User Profile Form -->
<h2 class="section-title mt-5">Customer Profile Form</h2>
<form class="shadow p-4 bg-white rounded">
  <div class="row mb-3">
    <div class="col-md-6">
      <label class="form-label">First Name</label>
      <input type="text" class="form-control">
    </div>
    <div class="col-md-6">
      <label class="form-label">Last Name</label>
      <input type="text" class="form-control">
    </div>
  </div>

  <div class="row mb-3">
    <div class="col-md-6">
      <label class="form-label">Email</label>
      <input type="email" class="form-control">
    </div>
    <div class="col-md-6">
      <label class="form-label">Phone</label>
      <input type="text" class="form-control">
    </div>
  </div>

  <div class="row mb-3">
    <div class="col-md-6">
      <label class="form-label">Date of Birth</label>
      <input type="date" class="form-control">
    </div>
    <div class="col-md-6">
      <label class="form-label">Favorite Drink</label>
      <input type="text" class="form-control">
    </div>
  </div>

  <button class="btn btn-outline-dark w-100 fw-bold">Update Profile</button>
```

```html
      </form>

      <!-- Cart Table -->
      <h2 class="section-title mt-5">Cart Summary</h2>
      <div class="table-responsive shadow rounded">
        <table class="table table-striped table-bordered align-middle">
          <thead class="table-dark">
            <tr>
              <th>Item</th>
              <th>Price (₹)</th>
              <th>Quantity</th>
              <th>Total (₹)</th>
            </tr>
          </thead>
          <tbody>
            <tr>
              <td>Cappuccino</td>
              <td>150</td>
              <td>2</td>
              <td>300</td>
            </tr>
            <tr>
              <td>Chocolate Muffin</td>
              <td>90</td>
              <td>3</td>
              <td>270</td>
            </tr>
            <tr>
              <td>Cheese Sandwich</td>
              <td>120</td>
              <td>1</td>
              <td>120</td>
            </tr>
          </tbody>
        </table>
      </div>

      <!-- Order History -->
      <h2 class="section-title mt-5">Order History</h2>
      <div class="table-responsive shadow rounded">
        <table class="table table-hover table-bordered align-middle">
          <thead class="table-secondary">
            <tr>
              <th>Order ID</th>
              <th>Date</th>
              <th>Total (₹)</th>
              <th>Status</th>
            </tr>
          </thead>
          <tbody>
            <tr>
              <td>#2051</td>
              <td>2025-10-10</td>
              <td>690</td>
              <td><span class="badge bg-success">Delivered</span></td>
```

```html
          </tr>
          <tr>
            <td>#2052</td>
            <td>2025-10-20</td>
            <td>320</td>
            <td><span class="badge bg-warning text-dark">In Progress</span></td>
          </tr>
          <tr>
            <td>#2053</td>
            <td>2025-10-30</td>
            <td>480</td>
            <td><span class="badge bg-danger">Cancelled</span></td>
          </tr>
        </tbody>
      </table>
    </div>
  </div>

  <!-- Bootstrap JS -->
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>

  <!-- Form Validation -->
  <script>
    (() => {
      "use strict";
      const forms = document.querySelectorAll(".needs-validation");
      Array.from(forms).forEach((form) => {
        form.addEventListener("submit", (event) => {
          if (!form.checkValidity()) {
            event.preventDefault();
            event.stopPropagation();
          }
          form.classList.add("was-validated");
        }, false);
      });
    })();
  </script>

</body>
</html>
```

Output:

Café Checkout Form

Full Name

Email Address

Delivery Address

City

Pincode

Phone Number

Payment Method

Choose...

Place Order

Customer Profile Form

First Name

Last Name

Email

Phone

Date of Birth

dd-mm-yyyy

Favorite Drink

Update Profile

Cart Summary

Item	Price (₹)	Quantity	Total (₹)
Cappuccino	150	2	300
Chocolate Muffin	90	3	270
Cheese Sandwich	120	1	120

Order History

Order ID	Date	Total (₹)	Status
#2051	2025-10-10	690	Delivered
#2052	2025-10-20	320	In Progress
#2053	2025-10-30	480	Cancelled

Conclusion:

We successfully implemented Bootstrap forms and tables to create a professional café checkout and profile interface. The use of grid layouts, validation utilities, and responsive tables demonstrated Bootstrap's capability to unify input handling and data presentation seamlessly.

<div align="center">**Assignment 4 : Responsive Design Using Bootstrap**</div>

Aim :

To design and implement a responsive layout for a **Multi-Cuisine Restaurant Website** using **Bootstrap's grid system, media queries, and utility classes** to ensure an optimized and consistent viewing experience across all screen sizes — mobile, tablet, laptop, and desktop.

Theory :

1. Introduction to Responsive Web Design

Responsive Web Design (RWD) allows a website to automatically adapt its layout, images, and components based on the user's screen size or device. It ensures that content is readable and accessible without requiring zooming or horizontal scrolling.

In this assignment, the **Multi-Cuisine Restaurant Website** (which includes Home, Menu, Cart, and Contact pages) was made responsive using **Bootstrap 5**.

2. Key Principles of Responsive Design

- **Fluid Grid System:**
  Bootstrap's 12-column layout automatically adjusts using classes like col-lg-4, col-md-6, and col-sm-12.
- **Flexible Images:**
  The img-fluid class ensures that dish images scale properly on all devices.
- **Media Queries:**
  Bootstrap's built-in breakpoints (sm, md, lg, xl, xxl) are used for adaptive styling.
- **Mobile-First Approach:**
  The website layout was designed to look perfect on small screens first, then enhanced for larger screens.
- **Responsive Navbar:**
  The navigation bar collapses into a hamburger menu using the navbar-toggler class on smaller devices.

3. Importance in My Project

The restaurant website includes multiple pages where responsiveness enhances usability:

- **Home Page:** Banner, introduction, and highlights adapt neatly on phones.
- **Menu Page:** Food cards adjust from a 4-column grid on desktop to a single column on mobiles.
- **Cart Page:** Tables remain scrollable and aligned using `table-responsive`.
- **Contact Page:** Form fields align side-by-side on larger screens and stack vertically on smaller ones.

4. Case Study: My Multi-Cuisine Restaurant Website

Website URL (Local Development):
http://localhost:3000/

Testing Methodology:

Tested on **Google Chrome DevTools** using multiple device resolutions.

Observations:

Device	Layout & Behavior	Experience
Desktop (1920×1080)	Full-width background image, 4-column menu grid, large navigation bar visible.	Excellent and visually rich layout.
Laptop (1366×768)	Reduces grid to 3 columns, navbar remains expanded, balanced spacing.	Very Good.
Tablet (768×1024)	Switches to 2-column menu grid, navbar collapses for neat look.	Good readability.
Mobile (430×932)	Single-column card layout, hamburger menu activated.	Excellent, smooth scrolling and perfect scaling.
Mobile (360×740)	Full-width cards, larger buttons, single-column display.	Smooth and easy to use.

Bootstrap Breakpoints Used

Breakpoint	Device Type	CSS Class Prefix
≥1200px	Desktop	`.col-lg-`
≥992px	Laptop	`.col-md-`
≥768px	Tablet	`.col-sm-`
<768px	Mobile	`.col-12`

Code :

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Responsive Multi-Cuisine Restaurant</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet" />
  <style>
    body {
      font-family: 'Poppins', sans-serif;
```

```css
      background-color: #fff8f0;
    }
    .navbar {
      background-color: #ff7043;
    }
    .menu-card {
      border: none;
      box-shadow: 0 0 10px rgba(0,0,0,0.1);
      border-radius: 10px;
    }
    footer {
      background-color: #222;
      color: white;
      text-align: center;
      padding: 15px 0;
      border-radius: 8px;
    }
  </style>
</head>
<body>
  <!-- Navbar -->
  <nav class="navbar navbar-expand-lg navbar-dark">
    <div class="container">
      <a class="navbar-brand fw-bold" href="#">TasteHub</a>
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navMenu">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="navMenu">
        <ul class="navbar-nav ms-auto">
          <li class="nav-item"><a class="nav-link active" href="#">Home</a></li>
          <li class="nav-item"><a class="nav-link" href="#">Menu</a></li>
          <li class="nav-item"><a class="nav-link" href="#">Cart</a></li>
          <li class="nav-item"><a class="nav-link" href="#">Contact</a></li>
        </ul>
      </div>
    </div>
  </nav>

  <!-- Responsive Menu Section -->
  <div class="container my-5">
    <h2 class="text-center text-primary fw-bold mb-4">Our Signature Dishes</h2>
    <div class="row g-4">
      <div class="col-lg-3 col-md-4 col-sm-6">
        <div class="card menu-card">
          <img src="https://source.unsplash.com/400x300/?pizza" class="card-img-top img-fluid" alt="Pizza" />
          <div class="card-body text-center">
            <h5 class="card-title">Cheesy Pizza</h5>
            <p class="card-text text-muted">Crispy crust loaded with cheese.</p>
            <button class="btn btn-success btn-sm">Add to Cart</button>
          </div>
        </div>
      </div>
```

```html
      <div class="col-lg-3 col-md-4 col-sm-6">
        <div class="card menu-card">
          <img src="https://source.unsplash.com/400x300/?pasta" class="card-img-top img-
fluid" alt="Pasta" />
          <div class="card-body text-center">
            <h5 class="card-title">Creamy Pasta</h5>
            <p class="card-text text-muted">Rich Italian Alfredo style pasta.</p>
            <button class="btn btn-success btn-sm">Add to Cart</button>
          </div>
        </div>
      </div>

      <div class="col-lg-3 col-md-4 col-sm-6">
        <div class="card menu-card">
          <img src="https://source.unsplash.com/400x300/?burger" class="card-img-top img-
fluid" alt="Burger" />
          <div class="card-body text-center">
            <h5 class="card-title">Veg Burger</h5>
            <p class="card-text text-muted">Juicy patty with tangy sauces.</p>
            <button class="btn btn-success btn-sm">Add to Cart</button>
          </div>
        </div>
      </div>

      <div class="col-lg-3 col-md-4 col-sm-6">
        <div class="card menu-card">
          <img src="https://source.unsplash.com/400x300/?sushi" class="card-img-top img-
fluid" alt="Sushi" />
          <div class="card-body text-center">
            <h5 class="card-title">Veg Sushi</h5>
            <p class="card-text text-muted">Delicate Japanese rolls with tofu.</p>
            <button class="btn btn-success btn-sm">Add to Cart</button>
          </div>
        </div>
      </div>
    </div>
  </div>

  <!-- Footer -->
  <footer>
    <p class="mb-0">&copy; 2025 TasteHub | Designed by Suhasini Nanaware</p>
  </footer>

  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```
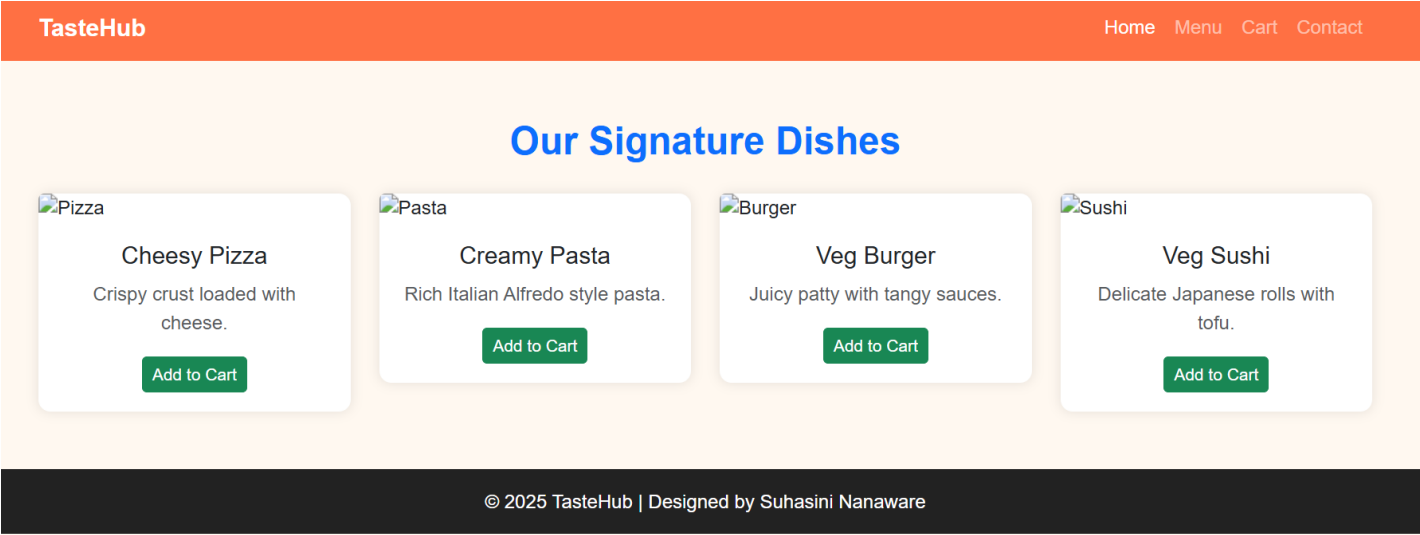
Output:

Conclusion :

We successfully implemented a **responsive multi-cuisine restaurant website** using **Bootstrap 5 grid and utility classes**. The layout adapts beautifully to various screen sizes, ensuring accessibility, readability, and a seamless browsing experience on all devices.