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 Student
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Under the Guidance of
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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 :

1.All About Bootstrap

Bootstrap is one of the most powerful and widely used front-end frameworks for building responsive, mobile-first web pages efficiently. It allows developers to design complex layouts with minimal effort using a predefined structure of CSS classes and responsive utilities. In this assignment, Bootstrap is used to construct a static homepage layout that remains elegant and functional across all devices—from large desktop monitors to compact mobile screens.

A static homepage acts as the introductory interface of a web application, representing the brand and providing navigation to other sections. Bootstrap's grid system, which is based on a 12-column flexible layout, serves as the backbone of this design. It enables developers to align text, images, and other content in a well-organized structure without writing custom CSS for positioning. Each section of the homepage—such as the header, navigation, main content, and footer—can be defined within rows and columns, ensuring a perfectly balanced structure that automatically adjusts based on screen size. For instance, a four-column layout on a desktop might become a single column on a mobile device without needing manual adjustments.

The homepage begins with a container, which is the central wrapper that maintains alignment and spacing across the page. Within the container, the header section typically includes the website's name, logo, or slogan, designed using Bootstrap's utility classes for typography and spacing. Following the header, a navigation bar is implemented using Bootstrap's navbar component. The navbar provides links to other pages such as Home, About, Services, and Contact, and it automatically collapses into a toggleable menu on smaller screens using the navbar-toggler class, enhancing usability on mobile devices.

The hero section or jumbotron, which often occupies the top portion of the homepage, is an eye-catching area used to highlight key information or calls to action. Bootstrap's jumbotron or modern equivalent utilities like bg-light, py-5, and text-center help create a prominent introductory section that typically contains a welcoming message and buttons leading to further sections. Buttons in Bootstrap are designed using predefined classes like btn and btn-primary, which provide a consistent style and ensure contrast for user accessibility. These buttons serve as call-to-action elements encouraging visitors to explore more.

Below the jumbotron, the main content section is organized using the Bootstrap grid system. Here, multiple columns can be used to display features, services, or product highlights. Each column can include icons, headings, and short paragraphs styled with Bootstrap's text and spacing utilities. The combination of rows and columns ensures a clean alignment of content while maintaining responsiveness. As the screen size changes,

Bootstrap automatically repositions these columns using breakpoints such as col-md-6 or col-lg-4 to adapt to different devices. This responsive nature eliminates the need for separate designs for desktop and mobile, drastically improving development speed and consistency.

The footer section, which forms the base of the homepage, is another essential part of the layout. It can contain contact details, social media icons, or quick links, styled using Bootstrap's background and text color utilities. The use of bg-dark and text-white ensures a visually distinct footer that separates itself from the main content while maintaining a professional look. Bootstrap's spacing utilities like p-3 and text-center make the footer clean and readable.

An important aspect of Bootstrap's philosophy is its "mobile-first" approach. This means that designs are created with mobile devices as the priority, and then scaled up for larger screens using responsive classes. The use of media queries is handled internally by Bootstrap's framework, which automatically applies styles based on the device width. As a result, developers can focus on layout and content rather than manual adjustments for each screen size.

The styling of the homepage is further enhanced using Bootstrap's predefined color palette, typography settings, and spacing utilities. The consistent use of margins, padding, and alignment classes ensures visual uniformity and readability. Since Bootstrap uses a component-based structure, any modification to one component (like a button or card) automatically aligns with the overall theme, maintaining consistency throughout the site.

Overall, this assignment emphasizes understanding the structure and responsive nature of Bootstrap layouts. By utilizing the container, jumbotron, grid, and utility classes, the homepage becomes both visually appealing and functionally adaptable. The approach reflects how modern websites achieve responsiveness without heavy reliance on manual CSS or JavaScript. The result is a clean, professional, and adaptive static homepage that can serve as the foundation for any web application interface.

Code :

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <title>Dashboard - TravelWorld</title>

  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet" />

  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.5.0/css/all.min.css"
    integrity="sha512-..." crossorigin="anonymous" referrerpolicy="no-referrer" />

  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/aos@2.3.4/dist/aos.css" />
```

```
<style>
  body {
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
    background-color: #f8f9fa;
  }

  nav.navbar {
    position: sticky;
    top: 0;
    z-index: 1030;
  }

  .hero-carousel {
    height: 420px;
    position: relative;
    overflow: hidden;
    border-radius: 8px;
  }

  .hero-carousel .carousel-item {
    height: 420px;
    position: relative;
```

```css
  }

  .hero-carousel .carousel-item img {
    width: 100%;
    height: 100%;
    object-fit: cover;
    object-position: center;
  }

  .carousel-overlay {
    position: absolute;
    top: 0;
    left: 0;
    right: 0;
    bottom: 0;
    background: linear-gradient(45deg, rgba(0,0,0,0.6)
0%, rgba(0,0,0,0.3) 100%);
    z-index: 1;
  }

  .hero-content {
    position: absolute;
    top: 50%;
    left: 50%;
    transform: translate(-50%, -50%);
    text-align: center;
    z-index: 2;
    max-width: 720px;
    padding: 0 20px;
  }

  .hero-content h1 {
    font-size: 2.5rem;
    font-weight: bold;
    color: white;
    text-shadow: 2px 2px 4px rgba(0,0,0,0.5);
    margin-bottom: 1rem;
  }

  .hero-content p {
    font-size: 1.25rem;
    color: white;
    text-shadow: 1px 1px 2px rgba(0,0,0,0.5);
    margin-bottom: 2rem;
  }

  .btn-primary {
    background-color: #0d6efd;
    border: none;
    padding: 12px 32px;
    font-size: 1.25rem;
    border-radius: 50px;
    transition: all 0.3s ease;
    box-shadow: 0 4px 15px rgba(13, 110, 253, 0.3);

  }

  .btn-primary:hover {
    background-color: #0b5ed7;
    transform: translateY(-2px);
    box-shadow: 0 6px 20px rgba(13, 110, 253, 0.4);
  }

  .carousel-control-prev,
  .carousel-control-next {
    width: 5%;
    z-index: 3;
  }

  .carousel-control-prev-icon,
  .carousel-control-next-icon {
    background-color: rgba(0,0,0,0.5);
    border-radius: 50%;
    padding: 20px;
  }

  .carousel-indicators {
    z-index: 3;
  }

  .carousel-indicators button {
    background-color: rgba(255,255,255,0.5);
    border: 2px solid white;
    width: 12px;
    height: 12px;
    border-radius: 50%;
    margin: 0 5px;
  }

  .carousel-indicators button.active {
    background-color: white;
  }

  .search-bar {
    max-width: 600px;
    margin: 0 auto 50px auto;
  }

  .card {
    transition: transform 0.25s ease, box-shadow 0.25s
ease;
    border-radius: 15px;
  }

  .card:hover {
    transform: scale(1.05);
    box-shadow: 0 0.75rem 1.5rem rgba(13, 110, 253,
0.25);
  }
```

```css
.card .card-body {
  padding: 2rem;
}

footer {
  background-color: #212529;
}

@media (max-width: 576px) {
  .hero-carousel,
  .hero-carousel .carousel-item {
    height: 300px;
  }
  .hero-content h1 {
    font-size: 1.75rem;
  }
  .hero-content p {
    font-size: 1rem;
  }
  .btn-primary {
    font-size: 1rem;
    padding: 10px 24px;
  }
}

@media (max-width: 768px) {
  .card .card-body {
    padding: 1.5rem;
  }
}

@media (min-width: 1200px) {
  .hero-carousel,
  .hero-carousel .carousel-item {
    height: 480px;
  }
  .hero-content h1 {
    font-size: 3.5rem;
  }
  .hero-content p {
    font-size: 1.5rem;
  }
}

.social-proof {
  background-color: white;
  padding: 30px 20px;
  border-radius: 12px;
  box-shadow: 0 0.5rem 1rem rgb(0 0 0 / 0.1);
  max-width: 800px;
  margin: 40px auto 80px auto;
  text-align: center;
}

.social-proof h4 {
  margin-bottom: 15px;
  font-weight: 600;
  color: #0d6efd;
}

.testimonial {
  font-style: italic;
  color: #555;
}
</style>

</head>

<body class="bg-light d-flex flex-column min-vh-100">


  <nav class="navbar navbar-expand-lg navbar-dark bg-primary shadow">
    <div class="container">
    <a class="navbar-brand fw-bold" href="#">TravelWorld</a>
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#mainNavbar"
        aria-controls="mainNavbar" aria-expanded="false" aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="mainNavbar">
        <ul class="navbar-nav ms-auto align-items-lg-center">
        <li class="nav-item"><a class="nav-link" href="index.html">Home</a></li>
        <li class="nav-item"><a class="nav-link" href="booking.html">Book</a></li>
        <li class="nav-item"><a class="nav-link" href="destinations.html">Destinations</a></li>
        <li class="nav-item"><a class="nav-link" href="contact.html">Contact</a></li>
        <li class="nav-item"><a class="nav-link" href="about.html">About</a></li>
        <li class="nav-item"><a class="nav-link" href="profile.html" title="Profile"><i class="fas fa-user"></i></a>
        </li>
        <li class="nav-item"><a class="nav-link" href="register.html" title="Register"><i
            class="fas fa-user-plus"></i></a></li>
      </ul>
    </div>
```

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


<section    class="hero-carousel"    data-aos="fade-in"
data-aos-duration="1200">
  <div id="heroCarousel" class="carousel slide h-100"
data-bs-ride="carousel" data-bs-interval="4000">

    <div class="carousel-indicators">
      <button          type="button          data-bs-
target="#heroCarousel"          data-bs-slide-to="0"
class="active"  aria-current="true"  aria-label="Slide
1"></button>
      <button          type="button          data-bs-
target="#heroCarousel"  data-bs-slide-to="1"  aria-
label="Slide 2"></button>
      <button          type="button          data-bs-
target="#heroCarousel"  data-bs-slide-to="2"  aria-
label="Slide 3"></button>
      <button          type="button          data-bs-
target="#heroCarousel"  data-bs-slide-to="3"  aria-
label="Slide 4"></button>
      <button          type="button          data-bs-
target="#heroCarousel"  data-bs-slide-to="4"  aria-
label="Slide 5"></button>
      <button          type="button          data-bs-
target="#heroCarousel"  data-bs-slide-to="5"  aria-
label="Slide 6"></button>
      <button          type="button          data-bs-
target="#heroCarousel"  data-bs-slide-to="6"  aria-
label="Slide 7"></button>
    </div>

    <div class="carousel-inner h-100">

      <div class="carousel-item active">
        <img    src="https://images.unsplash.com/photo-
1506744038136-
46273834b3fb?auto=format&fit=crop&w=1950&q=8
0" alt="Tropical Beach Paradise" class="d-block">
        <div class="carousel-overlay"></div>
        <div class="hero-content">
         <h1>Discover Your Next Adventure</h1>
         <p>Explore    the    world's    most    enchanting
destinations with TravelWorld.</p>
         <a    href="booking.html"    class="btn    btn-
primary">Book Your Trip Now</a>
        </div>
      </div>

      <div class="carousel-item">
        <img    src="https://images.unsplash.com/photo-
1519125323398-

675f0ddb6308?auto=format&fit=crop&w=1950&q=8
0" alt="Mountain Lake Village" class="d-block">
        <div class="carousel-overlay"></div>
        <div class="hero-content">
         <h1>Alpine Adventures Await</h1>
         <p>Experience  charming  villages  nestled  in
majestic mountains.</p>
         <a    href="destinations.html"    class="btn    btn-
primary">Explore Destinations</a>
        </div>
      </div>

      <div class="carousel-item">
        <img    src="https://images.unsplash.com/photo-
1465101178521-
c1a9136a1125?auto=format&fit=crop&w=1950&q=8
0"  alt="Ancient  Temple  Architecture"  class="d-
block">
        <div class="carousel-overlay"></div>
        <div class="hero-content">
         <h1>Ancient Wonders</h1>
         <p>Explore  rich  cultural  heritage  and  stunning
architecture.</p>
         <a    href="destinations.html"    class="btn    btn-
primary">Discover History</a>
        </div>
      </div>

      <!-- Slide 4: Forest Waterfall -->
      <div class="carousel-item">
        <img    src="https://images.unsplash.com/photo-
1441974231531-
c6227db76b6e?auto=format&fit=crop&w=1950&q=8
0" alt="Forest Waterfall" class="d-block">
        <div class="carousel-overlay"></div>
        <div class="hero-content">
         <h1>Nature's Serenity</h1>
         <p>Find peace in pristine forests and cascading
waterfalls.</p>
         <a    href="booking.html"    class="btn    btn-
primary">Plan Your Escape</a>
        </div>
      </div>

      <!-- Slide 5: City Skyline -->
      <div class="carousel-item">
        <img    src="https://images.unsplash.com/photo-
1480714378408-
67cf0d13bc1f?auto=format&fit=crop&w=1950&q=80
" alt="City Skyline Night" class="d-block">
        <div class="carousel-overlay"></div>
        <div class="hero-content">
         <h1>Urban Adventures</h1>
         <p>Experience    vibrant    cities    that    never
```

sleep.</p>
        City Breaks
      </div>
    </div>

    <!-- Slide 6: Desert Landscape -->
    <div class="carousel-item">
      <img src="https://images.unsplash.com/photo-1439066615861-d1af74d74000?auto=format&fit=crop&w=1950&q=80" alt="Desert Adventure" class="d-block">
      <div class="carousel-overlay"></div>
      <div class="hero-content">
       <h1>Desert Adventures</h1>
       <p>Journey through endless golden landscapes.</p>
        Desert Tours
      </div>
    </div>

    <!-- Slide 7: Ocean Sunset -->
    <div class="carousel-item">
      <img src="https://images.unsplash.com/photo-1418065460487-3956c3043632?auto=format&fit=crop&w=1950&q=80" alt="Ocean Sunset" class="d-block">
      <div class="carousel-overlay"></div>
      <div class="hero-content">
       <h1>Sunset Paradise</h1>
       <p>Watch the sun set over crystal-clear waters.</p>
        Beach Getaways
      </div>
    </div>

  </div>

  <!-- Carousel Controls -->
  <button class="carousel-control-prev" type="button" data-bs-target="#heroCarousel" data-bs-slide="prev">

    Previous
  </button>
  <button class="carousel-control-next" type="button" data-bs-target="#heroCarousel" data-bs-slide="next">

    Next
    </button>
  </div>
</section>

    <!-- Carousel Controls -->
    <button class="carousel-control-prev" type="button" data-bs-target="#heroCarousel" data-bs-slide="prev" aria-label="Previous">

    </button>
    <button class="carousel-control-next" type="button" data-bs-target="#heroCarousel" data-bs-slide="next" aria-label="Next">

    </button>
  </div>
</section>

  <main class="container flex-grow-1 py-5">

    <div class="mb-5 search-bar" data-aos="fade-up" data-aos-duration="1000">
     <div class="input-group input-group-lg rounded-pill shadow-sm">
      <input type="text" class="form-control rounded-pill" placeholder="Search destinations, activities..." aria-label="Search destinations" />
      <button class="btn btn-primary rounded-pill ms-2" type="button"><i class="fas fa-search"></i></button>
     </div>
    </div>

    <div class="row g-4">
     <div class="col-12 col-sm-6 col-lg-4" data-aos="zoom-in" data-aos-duration="800">
      <div class="card h-100 border-0 shadow-sm">
       <div class="card-body text-center">
        <div class="mb-3"><i class="fas fa-map-marked-alt fa-2x text-primary"></i></div>
        <h5 class="card-title">Popular Destinations</h5>
        <p class="card-text text-muted">Explore our most booked places across the world!</p>
        View All
      </div>
     </div>

```html
        </div>

        <div class="col-12 col-sm-6 col-lg-4" data-
aos="zoom-in" data-aos-delay="100" data-aos-
duration="800">
          <div class="card h-100 border-0 shadow-sm">
            <div class="card-body text-center">
              <div class="mb-3"><i class="fas fa-calendar-
alt fa-2x text-primary"></i></div>
              <h5 class="card-title">Book Your Trip</h5>
              <p class="card-text text-muted">Ready for a
new adventure? Start booking now!</p>
              <a href="booking.html" class="stretched-link
text-decoration-none fw-semibold text-
primary">Book Now</a>
            </div>
          </div>
        </div>


        <div class="col-12 col-sm-6 col-lg-4" data-
aos="zoom-in" data-aos-delay="300" data-aos-
duration="800">
          <div class="card h-100 border-0 shadow-sm">
            <div class="card-body text-center">
              <div class="mb-3"><i class="fas fa-user-plus
fa-2x text-primary"></i></div>
              <h5 class="card-title">Register</h5>
              <p class="card-text text-muted">Create a new
account to start your journey with us.</p>
              <a href="register.html" class="stretched-link
text-decoration-none fw-semibold text-
primary">Register Now</a>
            </div>
          </div>
        </div>
      </div>


      <!-- Testimonials Carousel (replace
previous .social-proof section) -->
<section class="social-proof" data-aos="fade-up"
data-aos-duration="1000">
  <div id="testimonialCarousel" class="carousel slide"
data-bs-ride="carousel" data-bs-interval="4000">
    <!-- Indicators -->
    <div class="carousel-indicators">
      <button type="button" data-bs-
target="#testimonialCarousel" data-bs-slide-to="0"
class="active" aria-current="true" aria-label="Slide
1"></button>
      <button type="button" data-bs-
target="#testimonialCarousel" data-bs-slide-to="1"
aria-label="Slide 2"></button>
      <button type="button" data-bs-
target="#testimonialCarousel" data-bs-slide-to="2"
aria-label="Slide 3"></button>
    </div>

    <div class="carousel-inner text-center">
      <div class="carousel-item active">
        <h4 class="mb-3">What Our Travelers
Say</h4>
        <p class="testimonial">"TravelWorld made our
vacation unforgettable! The booking process was easy
and the destinations were amazing."</p>
        <p class="testimonial mb-0">- Sarah W.</p>
      </div>

      <div class="carousel-item">
        <h4 class="mb-3">What Our Travelers
Say</h4>
        <p class="testimonial">"Amazing customer
service and attention to detail. We felt safe and well
taken care of every step of the way."</p>
        <p class="testimonial mb-0">- Raj P.</p>
      </div>

      <div class="carousel-item">
        <h4 class="mb-3">What Our Travelers
Say</h4>
        <p class="testimonial">"Great deals and
beautiful curated itineraries — 10/10 would book
again!"</p>
        <p class="testimonial mb-0">- Emily R.</p>
      </div>
    </div>

    <!-- Controls -->
    <button class="carousel-control-prev"
type="button" data-bs-target="#testimonialCarousel"
data-bs-slide="prev" aria-label="Previous
testimonial">
      <span class="carousel-control-prev-icon" aria-
hidden="true"></span>
    </button>
    <button class="carousel-control-next"
type="button" data-bs-target="#testimonialCarousel"
data-bs-slide="next" aria-label="Next testimonial">
      <span class="carousel-control-next-icon" aria-
hidden="true"></span>
    </button>
  </div>
</section>
  </main>
```

```html
    <footer class="text-white text-center py-3 mt-auto">
      <div class="container">
        <p class="mb-1">&copy; 2025 TravelWorld. All
rights reserved.</p>
        <div class="d-flex justify-content-center gap-3">
          <a      href="#"      class="text-white"      aria-
label="Twitter"><i class="fab fa-twitter"></i></a>
          <a      href="#"      class="text-white"      aria-
label="Instagram"><i           class="fab           fa-
instagram"></i></a>
          <a      href="#"      class="text-white"      aria-
label="Facebook"><i      class="fab      fa-facebook-
f"></i></a>
        </div>
      </div>
    </footer>

  </html>

  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist
/js/bootstrap.bundle.min.js"></script>

  <script
src="https://cdn.jsdelivr.net/npm/aos@2.3.4/dist/aos.j
s"></script>
  <script>
    AOS.init({
      once: true
    });
  </script>
</body>
```
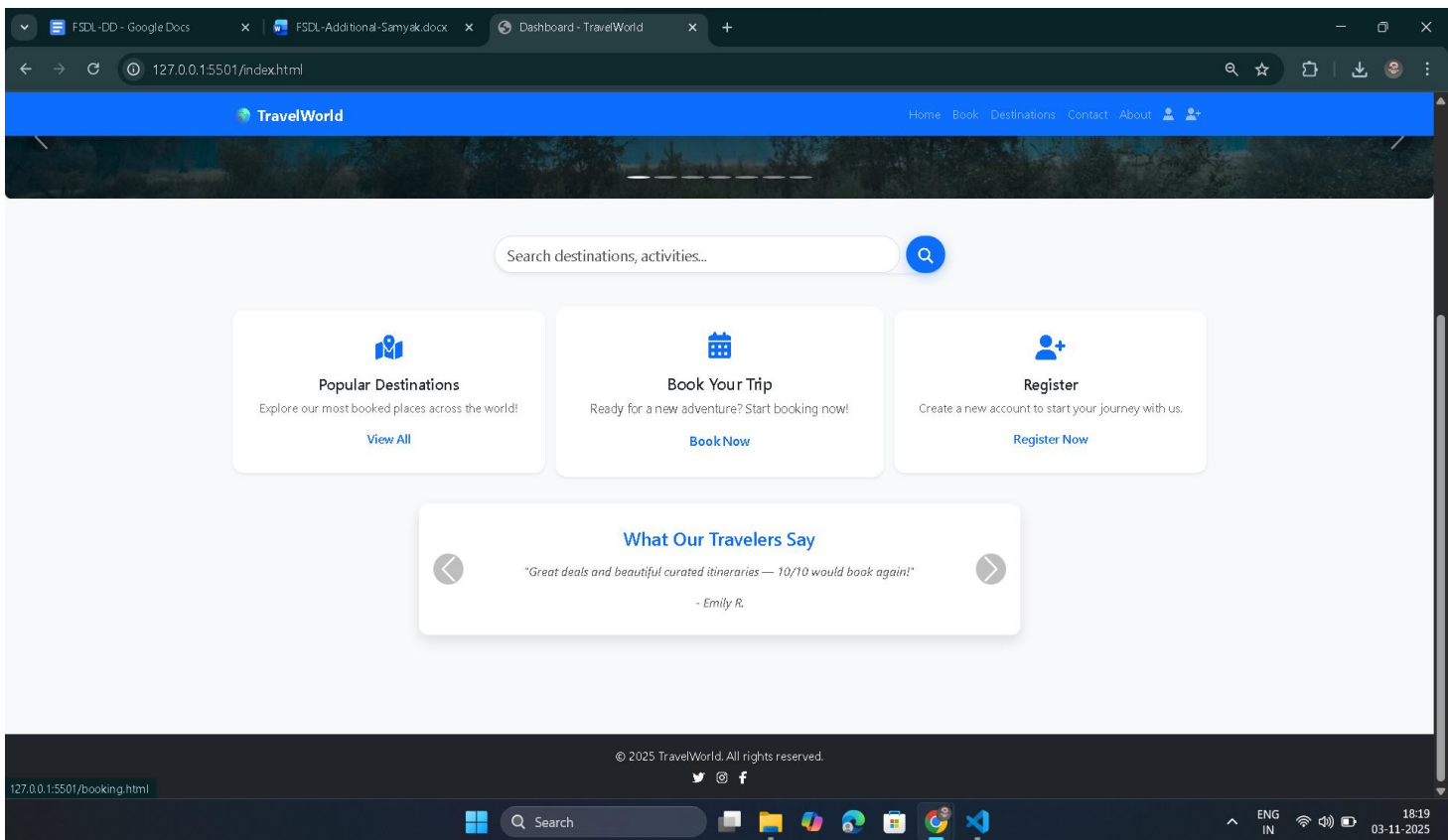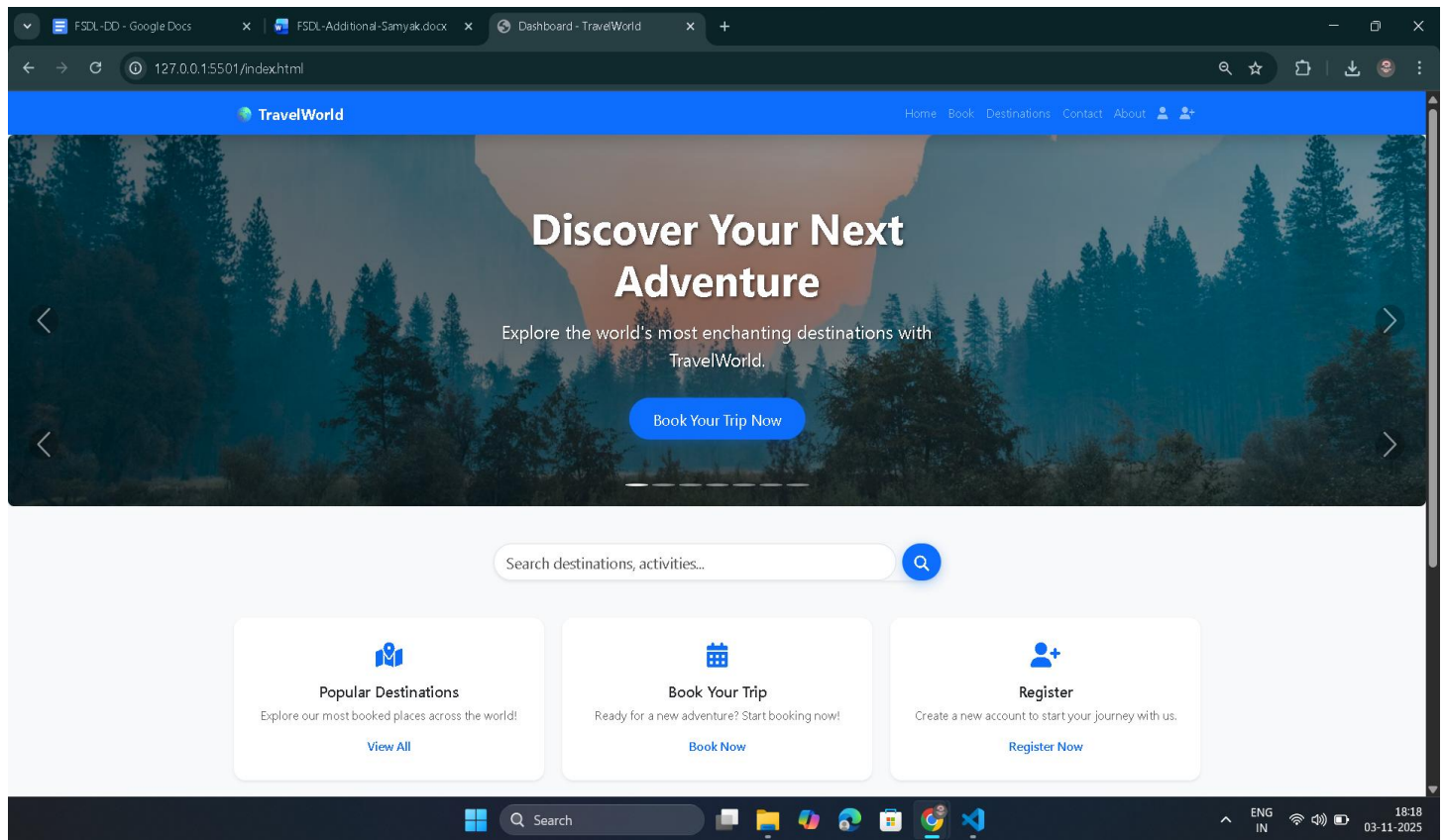
Output :

Conclusion :

We successfully created a Home page with bootstrap.

Assignment 2 : Bootstrap Grid

Aim :

The aim of this assignment is to design a responsive, multi-column information page using Bootstrap's 12-column grid system that cleanly arranges repeating content blocks such as cards, product previews, or blog entries. The objective is to demonstrate consistent alignment, uniform spacing, and visual balance across breakpoints by leveraging container, row, and column classes alongside utility helpers for gutters, typography, and shadows. The page should adapt from single-column stacks on small screens to multi-column layouts on medium and large screens, showcasing how Bootstrap's mobile-first grid enables scalable, maintainable structures without custom media queries or heavy CSS.

Theory :

Bootstrap's grid system is the foundation of its responsive design capability, allowing developers to organize and align content into structured layouts effortlessly. In this assignment, the grid system is used to design a multi-column information page that displays a series of cards representing articles, blogs, or products. The purpose is to understand how Bootstrap manages spacing, alignment, and resizing automatically across different device widths using flexible rows and columns.

The layout begins with a header section styled using Bootstrap's typography and background utilities. The container class ensures that the header text remains centered and well-padded within the page, maintaining readability and spacing consistency. Following the header, the main content section demonstrates the true power of Bootstrap's row and col classes. Each row in Bootstrap is divided into 12 equal columns, which can be distributed among elements using classes like col-md-6 or col-lg-4. These classes define how many columns each item should occupy at different screen sizes. For instance, a col-lg-4 element will take one-third of the row's width on large screens but will automatically resize to col-md-6 (half-width) on medium screens and stack vertically on small devices.

Each card in this assignment is enclosed within a column, maintaining equal spacing through Bootstrap's g-4 (gutters) property, which adds uniform gaps between columns. The card component itself is a ready-made Bootstrap structure consisting of an image (card-img-top), a body (card-body), a title, descriptive text, and a button. The combination of these components showcases how Bootstrap enables the creation of visually appealing and content-rich layouts without custom CSS. By leveraging responsive columns, the layout adjusts automatically—showing three cards per row on large screens, two cards per row on medium screens, and one per row on small devices.

The styling relies heavily on Bootstrap's built-in classes, such as shadow-sm, rounded, and border-0, which provide a clean and professional appearance without the need for additional CSS rules. Backgrounds, paddings, and text colors are managed through classes like bg-light, text-primary, and text-muted, giving the page a cohesive aesthetic. The footer section at the bottom uses the bg-dark and text-white classes to provide visual contrast and closure to the page.

This approach to grid-based design demonstrates how Bootstrap's mobile-first philosophy eliminates the need for manual media queries. The layout adjusts seamlessly across devices, ensuring that users have a consistent

experience whether they view the page on a mobile phone, tablet, or desktop. The result is an elegant, professional layout that can be easily extended for dynamic content like product listings or blog feeds.

By completing this assignment, one learns how to create balanced, responsive layouts using Bootstrap's predefined grid system. The consistent alignment, spacing, and scalability provided by Bootstrap ensure that every card and content block maintains perfect symmetry, demonstrating how front-end frameworks streamline modern web design.

Code :

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width,initial-scale=1" />
  <title>Destinations - TravelWorld</title>

  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">

  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">

  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/aos@2.3.4/dist/aos.css">

  <style>
    body { background-color: #f8fafc; min-height: 100vh; display:flex; flex-direction:column; }
    .hero { padding: 4.5rem 0; }
    .card-img-top { height: 220px; object-fit: cover; }
    .dest-card { border-radius: .75rem; overflow: hidden; transition: transform .25s ease, box-shadow .25s ease; }
    .dest-card:hover { transform: translateY(-6px); box-shadow: 0 14px 30px rgba(0,0,0,0.08); }
    footer { margin-top: auto; }
    @media (max-width:575.98px) { .card-img-top { height: 160px; } }
  </style>
</head>
<body>

  <nav class="navbar navbar-expand-lg navbar-dark bg-primary sticky-top" aria-label="Primary navigation">
    <div class="container">
      <a class="navbar-brand fw-bold" href="index.html" aria-label="TravelWorld home">
        <i class="fas fa-globe-americas me-2" aria-hidden="true"></i>TravelWorld
      </a>
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navMenuDest"
        aria-controls="navMenuDest" aria-expanded="false" aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>

      <div class="collapse navbar-collapse" id="navMenuDest">
        <ul class="navbar-nav ms-auto">
          <li class="nav-item"><a class="nav-link" href="index.html">Home</a></li>
          <li class="nav-item"><a class="nav-link" href="booking.html">Book</a></li>
          <li class="nav-item"><a class="nav-link active" href="destinations.html" aria-current="page">Destinations</a></li>
          <li class="nav-item"><a class="nav-link" href="contact.html">Contact</a></li>
          <li class="nav-item"><a class="nav-link" href="about.html">About</a></li>
          <li class="nav-item"><a class="nav-link" href="profile.html" aria-label="Profile"><i class="fas fa-user"></i></a></li>
        </ul>
      </div>
    </div>
  </nav>

  <
  <header class="hero text-center bg-white">
    <div class="container">
      <h1 class="display-6 fw-bold text-primary mb-2" data-aos="fade-down">Top Travel Destinations</h1>
      <p class="text-muted mb-0" data-aos="fade-up">Discover curated destinations — beach escapes, city breaks, nature retreats and more.</p>
```

```
        </div>
     </header>


   <main class="container py-4">
    <div class="row g-4">


        <div class="col-12 col-md-6 col-lg-4" data-
aos="zoom-in">
        <article class="card dest-card h-100">
        <img    src="images/paris.jpeg"    alt="Paris,
France  -  Eiffel  Tower"  class="card-img-top"
loading="lazy">
            <div class="card-body d-flex flex-column">
            <h5    class="card-title    text-primary">Paris,
France</h5>
            <p class="card-text text-muted mb-3">Enjoy
the city of love with iconic landmarks like the Eiffel
Tower and the Louvre.</p>
            <div class="mt-auto">
             <a   href="booking.html"   class="btn  btn-
primary  w-100"  role="button"  aria-label="Book
Paris">Book Now</a>
            </div>
            </div>
          </article>
        </div>


        <div    class="col-12   col-md-6   col-lg-4"   data-
aos="zoom-in" data-aos-delay="50">
        <article class="card dest-card h-100">
        <img    src="images/tokyo.jpeg"    alt="Tokyo,
Japan   -   City   skyline"   class="card-img-top"
loading="lazy">
            <div class="card-body d-flex flex-column">
            <h5    class="card-title    text-primary">Tokyo,
Japan</h5>
            <p       class="card-text       text-muted      mb-
3">Experience vibrant culture, tech-forward districts
and timeless temples.</p>
            <div class="mt-auto">
             <a    href="booking.html"    class="btn   btn-
primary  w-100"  role="button"   aria-label="Book
Tokyo">Book Now</a>
            </div>
            </div>
          </article>
        </div>


        <div    class="col-12   col-md-6   col-lg-4"   data-
aos="zoom-in" data-aos-delay="100">
        <article class="card dest-card h-100">
        <img    src="images/dubai.jpeg"    alt="Dubai,
UAE  -  Skyline  and  desert"  class="card-img-top"

loading="lazy">
        <div class="card-body d-flex flex-column">
        <h5    class="card-title    text-primary">Dubai,
UAE</h5>
            <p class="card-text text-muted mb-3">Explore
luxury  shopping,  desert  safaris  and  world-class
architecture.</p>
            <div class="mt-auto">
             <a   href="booking.html"   class="btn   btn-
primary  w-100"  role="button"   aria-label="Book
Dubai">Book Now</a>
            </div>
           </div>
         </article>
       </div>


        <div    class="col-12    col-md-6    col-lg-4"    data-
aos="zoom-in" data-aos-delay="150">
        <article class="card dest-card h-100">
        <img    src="images/india.jpeg"    alt="India   -
Cultural scene" class="card-img-top" loading="lazy">
            <div class="card-body d-flex flex-column">
            <h5                class="card-title                text-
primary">India</h5>
            <p    class="card-text    text-muted    mb-3">A
vibrant, sensory-rich destination full of culture, food
and diverse landscapes.</p>
            <div class="mt-auto">
             <a    href="booking.html"    class="btn    btn-
primary  w-100"  role="button"   aria-label="Book
India">Book Now</a>
            </div>
            </div>
          </article>
        </div>


        <div    class="col-12    col-md-6    col-lg-4"    data-
aos="zoom-in" data-aos-delay="200">
        <article class="card dest-card h-100">
        <img src="images/cityscape.jpeg" alt="Tokyo /
Cityscape" class="card-img-top" loading="lazy">
            <div class="card-body d-flex flex-column">
            <h5 class="card-title text-primary">New York,
USA</h5>
            <p    class="card-text    text-muted    mb-3">See
Times  Square,  Central  Park  and  iconic  skyline
experiences.</p>
            <div class="mt-auto">
             <a    href="booking.html"    class="btn    btn-
primary  w-100"  role="button"  aria-label="Book New
York">Book Now</a>
            </div>
            </div>
```

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

      <div class="col-12 col-md-6 col-lg-4" data-
aos="zoom-in" data-aos-delay="250">
        <article class="card dest-card h-100">
          <img src="images/beach.jpg" alt="Bali beach -
tropical" class="card-img-top" loading="lazy">
          <div class="card-body d-flex flex-column">
            <h5 class="card-title text-primary">Bali,
Indonesia</h5>
            <p class="card-text text-muted mb-
3">Tropical beaches, temples and relaxed island
life.</p>
            <div class="mt-auto">
              <a href="booking.html" class="btn btn-
primary w-100" role="button" aria-label="Book
Bali">Book Now</a>
            </div>
          </div>
        </article>
      </div>

      <div class="col-12 col-md-6 col-lg-4" data-
aos="zoom-in" data-aos-delay="300">
        <article class="card dest-card h-100">
          <img src="images/rome.jpeg" alt="Rome, Italy
- Colosseum" class="card-img-top" loading="lazy">
          <div class="card-body d-flex flex-column">
            <h5 class="card-title text-primary">Rome,
Italy</h5>
            <p class="card-text text-muted mb-3">Walk
through history visiting the Colosseum and
Vatican.</p>
            <div class="mt-auto">
              <a href="booking.html" class="btn btn-
primary w-100" role="button" aria-label="Book
Rome">Book Now</a>
            </div>
          </div>
        </article>
      </div>

      <div class="col-12 col-md-6 col-lg-4" data-
aos="zoom-in" data-aos-delay="350">
        <article class="card dest-card h-100">
          <img src="images/mountains.jpeg" alt="Cape
Town - Table Mountain" class="card-img-top"
loading="lazy">
          <div class="card-body d-flex flex-column">
            <h5 class="card-title text-primary">Cape
Town, South Africa</h5>
            <p class="card-text text-muted mb-3">Table
Mountain, coastal scenery and wildlife
experiences.</p>
            <div class="mt-auto">
              <a href="booking.html" class="btn btn-
primary w-100" role="button" aria-label="Book Cape
Town">Book Now</a>
            </div>
          </div>
        </article>
      </div>

      <div class="col-12 col-md-6 col-lg-4" data-
aos="zoom-in" data-aos-delay="400">
        <article class="card dest-card h-100">
          <img src="images/london.jpeg" alt="London,
UK - Big Ben" class="card-img-top" loading="lazy">
          <div class="card-body d-flex flex-column">
            <h5 class="card-title text-primary">London,
UK</h5>
            <p class="card-text text-muted mb-3">Big
Ben, the London Eye and world-class museums.</p>
            <div class="mt-auto">
              <a href="booking.html" class="btn btn-
primary w-100" role="button" aria-label="Book
London">Book Now</a>
            </div>
          </div>
        </article>
      </div>

      <div class="col-12 col-md-6 col-lg-4" data-
aos="zoom-in" data-aos-delay="450">
        <article class="card dest-card h-100">
          <img src="images/mountains.jpeg"
alt="Switzerland mountains and lakes" class="card-
img-top" loading="lazy">
          <div class="card-body d-flex flex-column">
            <h5 class="card-title text-
primary">Switzerland</h5>
            <p class="card-text text-muted mb-3">Alpine
vistas, lakes and charming villages.</p>
            <div class="mt-auto">
              <a href="booking.html" class="btn btn-
primary w-100" role="button" aria-label="Book
Switzerland">Book Now</a>
            </div>
          </div>
        </article>
      </div>

    </div>
  </main>

<footer class="bg-dark text-white py-4">
```
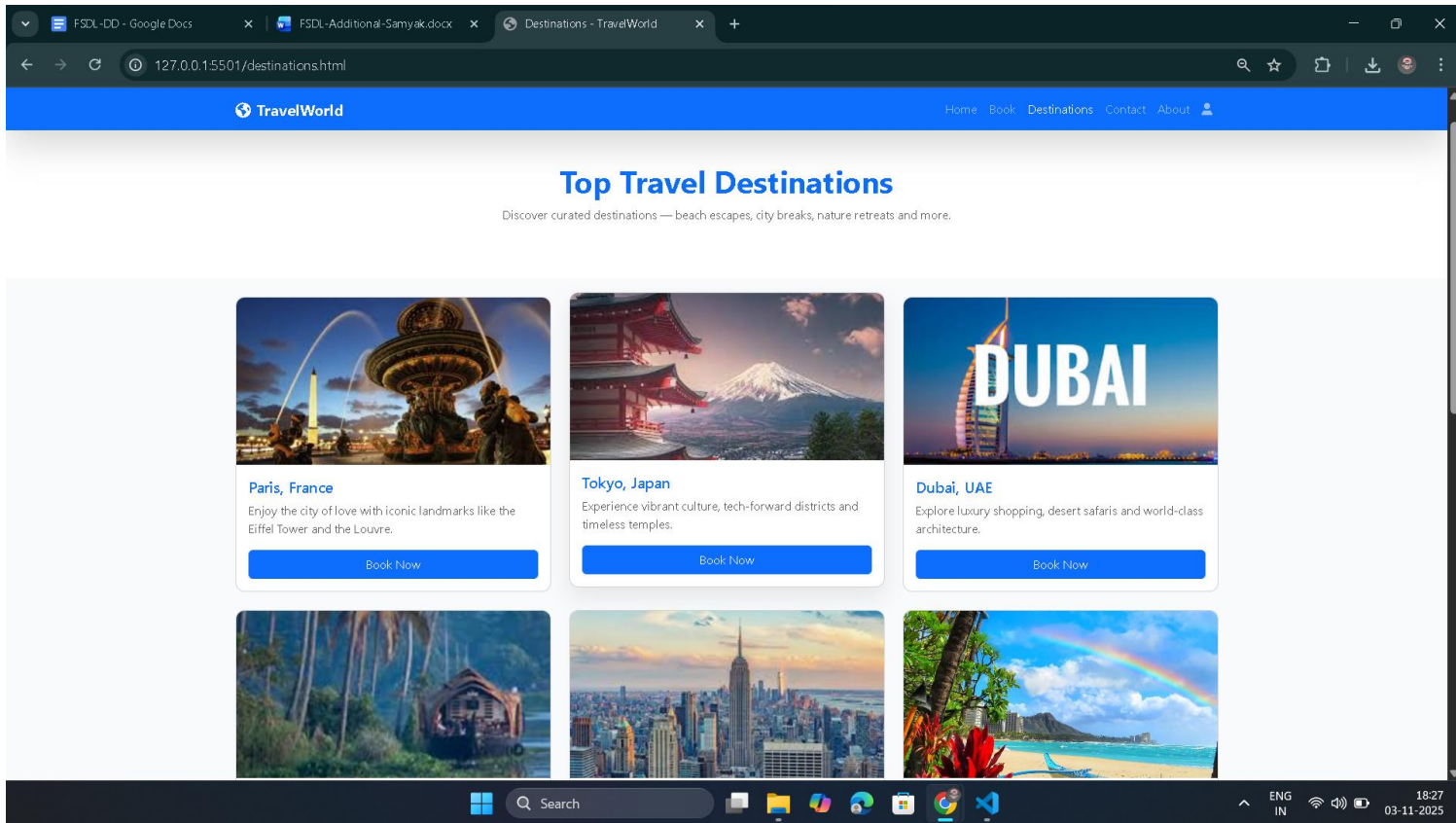
```html
      <div class="container text-center">
        <p class="mb-1">&copy; 2025 TravelWorld. All
rights reserved.</p>
        <div class="d-flex justify-content-center gap-3
mt-2">
          <a href="#" class="text-white-50" aria-
label="Facebook"><i class="fab fa-facebook-
f"></i></a>
          <a href="#" class="text-white-50" aria-
label="Instagram"><i class="fab fa-
instagram"></i></a>
          <a href="#" class="text-white-50" aria-
label="Twitter"><i class="fab fa-twitter"></i></a>
        </div>
      </div>
  </footer>


  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist
/js/bootstrap.bundle.min.js"></script>
```

```html
  <script
src="https://cdn.jsdelivr.net/npm/aos@2.3.4/dist/aos.j
s"></script>

  <script>
    AOS.init({ duration: 800, once: true, offset: 80 });


    window.addEventListener('scroll', function () {
      const navbar = document.querySelector('.navbar');
      if (!navbar) return;
      if (window.scrollY > 40)
navbar.classList.add('shadow-lg');
      else navbar.classList.remove('shadow-lg');
    });
  </script>
</body>
</html>
```

Output :

Conclusion :

We successfully implemented Bootstrap grid.

Assignment 3 : Bootstrap form and table

Aim :

The aim of this assignment is to integrate Bootstrap's form and table components into web layouts to create professional, user-friendly interfaces for checkout and profile sections. The objective is to apply classes such as form-group, form-control, and validation utilities to ensure proper form structure and data validation. Additionally, Bootstrap tables are used to display cart details and order history with features like striped rows, borders, and responsive layouts, demonstrating how Bootstrap's responsive utilities can unify form-based inputs and data presentation seamlessly.

Theory :

Bootstrap simplifies form and table design by providing pre-styled, responsive components that maintain alignment, spacing, and structure across devices. In this assignment, the Checkout and Profile forms were redesigned using Bootstrap's form classes to ensure a consistent and user-friendly interface. Likewise, Cart and Order History data were displayed using Bootstrap's table system for better readability and professional presentation.

The Checkout Form utilizes components such as form-group, form-control, and form-row to arrange inputs in an organized structure. Bootstrap's grid system divides form fields into responsive columns, ensuring they appear side by side on large screens and stack vertically on smaller screens. The form-control class standardizes the appearance of all input elements like text boxes, dropdowns, and date selectors. To enhance user experience, validation feedback was implemented using invalid-feedback, which prompts the user when a required field is missing or incorrectly filled. The needs-validation and was-validated classes are part of Bootstrap's built-in validation framework, providing a visual indication of correct or incorrect entries without writing custom JavaScript for field checking.

The Profile Form demonstrates Bootstrap's utility for creating visually consistent data entry interfaces. Labels and input fields are uniformly aligned using the same grid and spacing principles. This structure helps maintain a cohesive user experience across all forms in a web application, ensuring that different sections like personal details or contact information follow the same design language.

The Cart Table and Order History Table showcase Bootstrap's capability to display data in a clear and responsive format. The table class defines the basic table structure, while additional classes like table-striped, table-bordered, and table-hover enhance readability and visual hierarchy. The table-responsive wrapper ensures that the tables remain scrollable on smaller devices, preventing content overflow. Using contextual classes like table-dark, table-primary, and badge adds color coding to highlight important information such as order status—making the layout both informative and visually engaging.

By combining forms and tables, this assignment demonstrates how Bootstrap achieves balance between input design and data presentation. Developers can maintain uniform margins, paddings, and alignments without writing custom CSS. The responsive design adapts automatically, guaranteeing that both forms and tables remain functional and elegant across all device sizes.

Overall, Bootstrap's component-based system not only reduces design complexity but also accelerates development by providing pre-tested patterns for form handling, validation, and tabular layouts. The forms

guide users smoothly through input processes, while tables provide structured access to dynamic data such as cart items and order summaries.

Code :

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width,initial-scale=1" />
  <title>Booking - TravelWorld</title>


  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">


  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">


  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/aos@2.3.4/dist/aos.css">

  <style>
    body { background-color: #f8fafc; min-height: 100vh; display:flex; flex-direction:column; }
    .card-rounded { border-radius: 12px; }
    .btn-primary { transition: transform .18s ease; }
    .btn-primary:hover { transform: translateY(-2px); }
    footer { margin-top: auto; }
    @media (max-width:575.98px) {
      .card-img-top { height: 160px; object-fit:cover; }
    }
  </style>
```

```html
</head>

<body>

  <nav class="navbar navbar-expand-lg navbar-dark bg-primary sticky-top" aria-label="Primary navigation">
    <div class="container">
    <a class="navbar-brand fw-bold" href="index.html" aria-label="TravelWorld home">
      <i class="fas fa-globe-americas me-2" aria-hidden="true"></i>TravelWorld
    </a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navMenuBooking"
        aria-controls="navMenuBooking" aria-expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>


    <div class="collapse navbar-collapse" id="navMenuBooking">
      <ul class="navbar-nav ms-auto">
      <li class="nav-item"><a class="nav-link" href="index.html">Home</a></li>
      <li class="nav-item"><a class="nav-link active" href="booking.html" aria-current="page">Book</a></li>
      <li class="nav-item"><a class="nav-link" href="destinations.html">Destinations</a></li>
      <li class="nav-item"><a class="nav-link" href="contact.html">Contact</a></li>
      <li class="nav-item"><a class="nav-link" href="about.html">About</a></li>
      <li class="nav-item"><a class="nav-link" href="profile.html" aria-label="Profile"><i class="fas fa-user"></i></a></li>
      </ul>
```

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


    <main class="container py-5 flex-grow-1">
    <div class="row justify-content-center">
    <div class="col-12 col-md-8 col-lg-6" data-aos="zoom-in">
      <div class="card card-rounded shadow-sm">
       <div class="card-body p-4">
        <h2 class="h4 text-primary fw-bold text-center mb-3"><i class="fas fa-plane-departure me-2" aria-hidden="true"></i>Book Your Trip</h2>
        <p class="text-muted text-center mb-4">Tell us basic details and we'll prepare a booking (demo).</p>


        <form id="bookingForm" class="needs-validation" novalidate>


         <div class="mb-3">
          <label for="destination" class="form-label">Select Destination</label>
          <select id="destination" name="destination" class="form-select" required aria-required="true">
            <option value="">Choose destination</option>
            <option value="paris">Paris</option>
            <option value="london">London</option>
            <option value="tokyo">Tokyo</option>
            <option value="dubai">Dubai</option>
          </select>
          <div class="invalid-feedback">Please choose a destination.</div>
         </div>

         <div class="row g-3 mb-3">
          <div class="col-6">
            <label for="startDate" class="form-label">Start Date</label>
            <input id="startDate" name="startDate" type="date" class="form-control" required>
            <div class="invalid-feedback">Start date is required.</div>
          </div>
          <div class="col-6">
            <label for="endDate" class="form-label">End Date</label>
            <input id="endDate" name="endDate" type="date" class="form-control" required>
            <div class="invalid-feedback">End date is required and must be after start date.</div>
          </div>
         </div>


         <div class="mb-3">
          <label for="travelers" class="form-label">Number of Travelers</label>
          <input id="travelers" name="travelers" type="number" min="1" max="20" class="form-control" placeholder="e.g. 2" required>
          <div class="invalid-feedback">Enter a number of travelers (1–20).</div>
         </div>


         <div class="mb-4">
          <label for="requests" class="form-label">Special Requests</label>
          <textarea id="requests" name="requests" rows="4" class="form-control" placeholder="Any special requirements..."></textarea>
         </div>
```

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```html
                <div class="d-grid">
                    <button id="bookBtn" type="submit"
class="btn btn-primary btn-lg">
                        <i class="fas fa-check me-2" aria-
hidden="true"></i>Submit Booking
                    </button>
                </div>
            </form>


        </div>
      </div>
     </div>
    </div>
  </main>



  <div class="modal fade" id="bookingSuccessModal"
tabindex="-1" aria-
labelledby="bookingSuccessLabel" aria-
hidden="true">

   <div class="modal-dialog modal-dialog-centered">

    <div class="modal-content">

     <div class="modal-header">

      <h5 class="modal-title"
id="bookingSuccessLabel">Booking Submitted</h5>

      <button type="button" class="btn-close" data-
bs-dismiss="modal" aria-label="Close"></button>

     </div>

     <div class="modal-body">

       Your booking request was submitted (demo). In
a real application, this would be sent to the server and
confirmed by email.

     </div>

     <div class="modal-footer">

      <a href="profile.html" class="btn btn-outline-
primary">Go to Profile</a>

      <button type="button" class="btn btn-
secondary" data-bs-dismiss="modal">Close</button>

     </div>
```

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

  <footer class="bg-dark text-white py-4">

   <div class="container text-center">

     <p class="mb-1">&copy; 2025 TravelWorld. All
rights reserved.</p>

      <div class="d-flex justify-content-center gap-3
mt-2">

       <a href="#" class="text-white-50" aria-
label="Facebook"><i class="fab fa-facebook-
f"></i></a>

       <a href="#" class="text-white-50" aria-
label="Instagram"><i class="fab fa-
instagram"></i></a>

       <a href="#" class="text-white-50" aria-
label="Twitter"><i class="fab fa-twitter"></i></a>

      </div>

    </div>

   </footer>



  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist
/js/bootstrap.bundle.min.js"></script>



  <script
src="https://cdn.jsdelivr.net/npm/aos@2.3.4/dist/aos.j
s"></script>


  <script>


   AOS.init({ duration: 800, once: true, offset: 80 });



   (function setMinDates() {
```

```
    const today = new
Date().toISOString().split('T')[0];

    const start =
document.getElementById('startDate');

    const end = document.getElementById('endDate');

    if (start) start.setAttribute('min', today);

    if (end) end.setAttribute('min', today);

  })();


  (function () {

    'use strict';

    const form =
document.getElementById('bookingForm');

    const modalEl =
document.getElementById('bookingSuccessModal');

    const successModal = new
bootstrap.Modal(modalEl);


    form.addEventListener('submit', function (e) {

      e.preventDefault();

      e.stopPropagation();


      if (!form.checkValidity()) {

        form.classList.add('was-validated');

        return;

      }


      const startVal =
document.getElementById('startDate').value;

      const endVal =
document.getElementById('endDate').value;

      const endInput =
document.getElementById('endDate');

      if (startVal && endVal && new Date(endVal) <
new Date(startVal)) {

        endInput.classList.add('is-invalid');

        endInput.nextElementSibling &&
endInput.nextElementSibling.classList.add('d-block');

        return;

      } else {

        endInput.classList.remove('is-invalid');

        endInput.nextElementSibling &&
endInput.nextElementSibling.classList.remove('d-
block');

      }


      successModal.show();


      form.reset();

      form.classList.remove('was-validated');

    }, false);

  })();


  window.addEventListener('scroll', function () {

    const navbar = document.querySelector('.navbar');

    if (!navbar) return;

    if (window.scrollY > 40)
navbar.classList.add('shadow-lg');

    else navbar.classList.remove('shadow-lg');

  });

</script>

</body>

</html>
```

Output :

Conclusion :

We successfully implemented Bootstrap form and table.

Assignment 4 : Responsive Design Using Bootstrap

Aim :

The aim of this assignment is to design and implement a responsive user interface for the Travel World React project using the Bootstrap framework. The objective is to ensure that all web pages — including Home, About, Contact, and Profile — automatically adjust their layout, images, and text elements to provide an optimal viewing experience across different screen sizes and devices. By utilizing Bootstrap's grid system, utility classes, and responsive components, the goal is to create a mobile-friendly, tablet-compatible, and desktop-optimized website that enhances accessibility, usability, and visual consistency without requiring separate layouts for each device type.

Theory :

1. **Introduction to Responsive Web Design**

Responsive Web Design (RWD) is an approach to web development where a website's layout, images, and interactive elements automatically adjust to fit various screen sizes and devices. The core idea is to provide an optimal viewing and interaction experience easy reading, minimal resizing, and smooth navigation across a wide range of devices, from mobile phones to desktop monitors.

The term was popularized by Ethan Marcotte in 2010 and has since become a web development standard due to the increasing diversity of devices and screen resolutions.

2. **Key Principles of Responsive Design**

- **Fluid Grids**

    Instead of fixed pixel-based layouts, fluid grids use relative units (percentages, ems, rems) so that elements adapt proportionally to the screen size.

- **Flexible Images**

    Images scale or crop according to the viewport to avoid overflow or distortion.

- **Media Queries**

    CSS rules that apply different styles depending on the device's characteristics, such as screen width, height, orientation, or resolution.

- **Mobile-First Approach**

    Designing for smaller screens first, then progressively enhancing the layout for larger screens.

- **Viewport Meta Tag**

    Ensures that the browser renders the page according to the device's width.

3. Importance of Responsive Design

- **User Experience (UX):** Ensures consistency and ease of navigation.
- **Accessibility:** Improves usability for users on different devices.
- **SEO Benefits:** Google prioritizes mobile-friendly websites in search rankings.
- **Cost Efficiency:** A single website adapts to all devices, eliminating the need for multiple versions.
- **Future-Proofing:** Adaptable design can handle new device dimensions without a complete redesign.
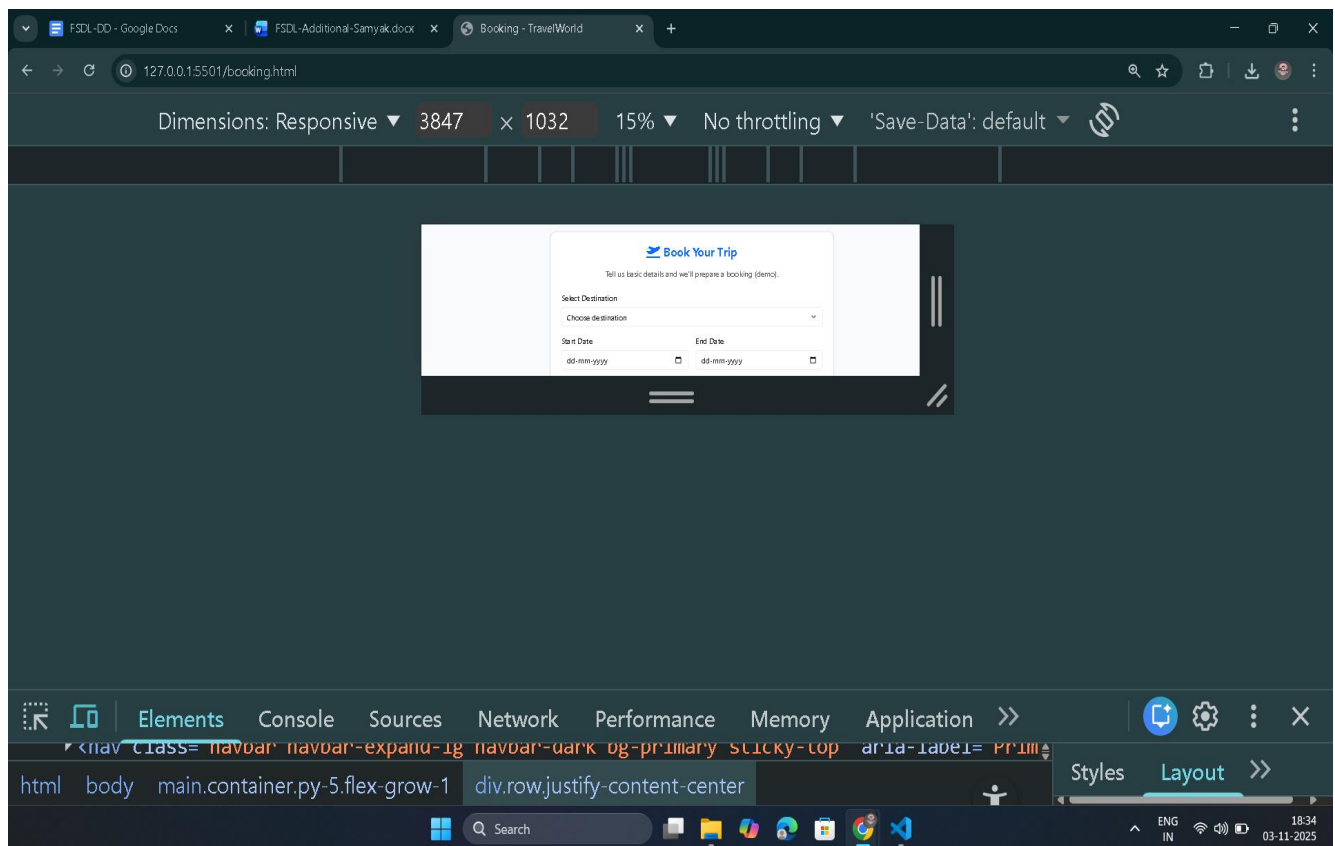
4. Case Study: Dribbble.com

- **Website Chosen:** https://dribbble.com
- **Purpose:** A platform for designers to showcase creative work, find inspiration, and connect with others.

4.1 Testing Methodology

I tested Dribbble.com on various screen sizes and devices using Chrome DevTools (responsive mode) .
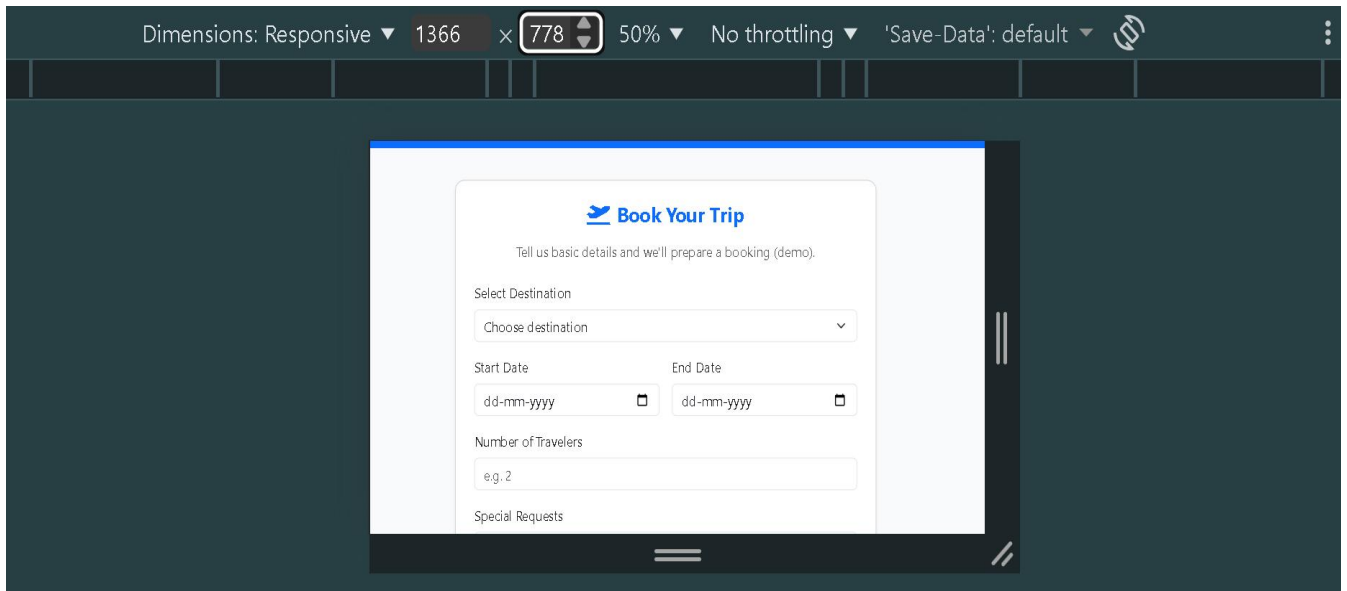
4.2 Observations

Desktop (1920×1080)

Layout: Full-width grid with multiple design cards per row, providing a spacious and visually rich display.

Navigation: Top navigation bar displays all menu items without collapsing, ensuring instant access to all sections.

Images & Media: High-resolution images load quickly and maintain clarity even on large displays.

Overall Experience: Excellent & the layout feels professional, easy to navigate, and visually appeal
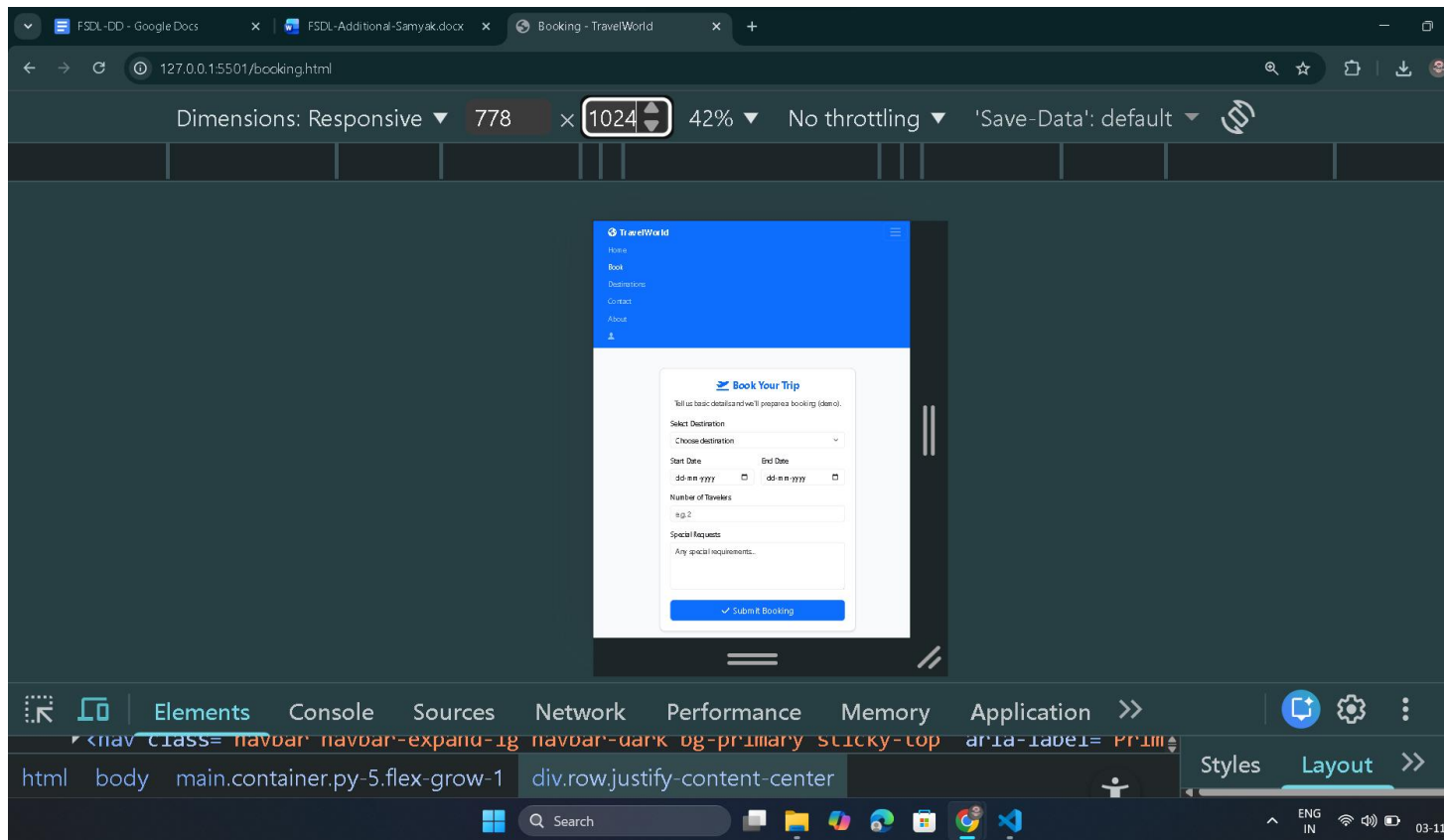
Laptop (1366×768)

Layout: Slightly reduced card sizes compared to desktop, but still displays multiple items per row for a balanced look.

Navigation: Navigation bar remains fully visible with no need for a hamburger menu.

Images & Media: Images adjust proportionally to the smaller screen without losing quality.

Overall Experience: Very good & compact yet retains desktop-like usability.
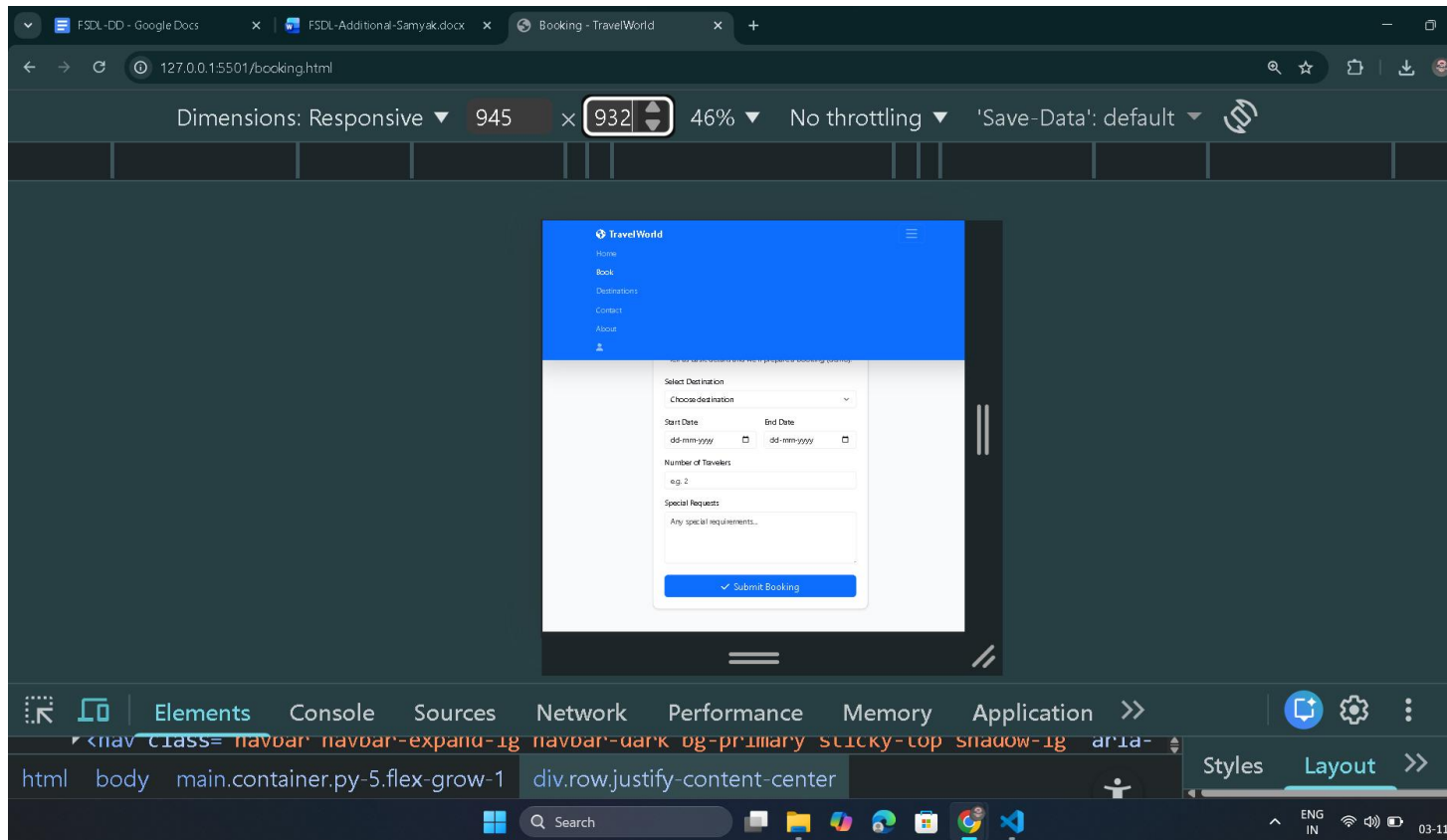
Tablet (768×1024)

Layout: Switches to a two-column grid layout, improving readability on medium-sized screens.

Navigation: Top navigation bar partially collapses, reducing clutter while maintaining functionality.

Images & Media: Images resize smoothly and fit well without overflow or distortion.

Overall Experience: Good & comfortable viewing and easy navigation with touch controls.
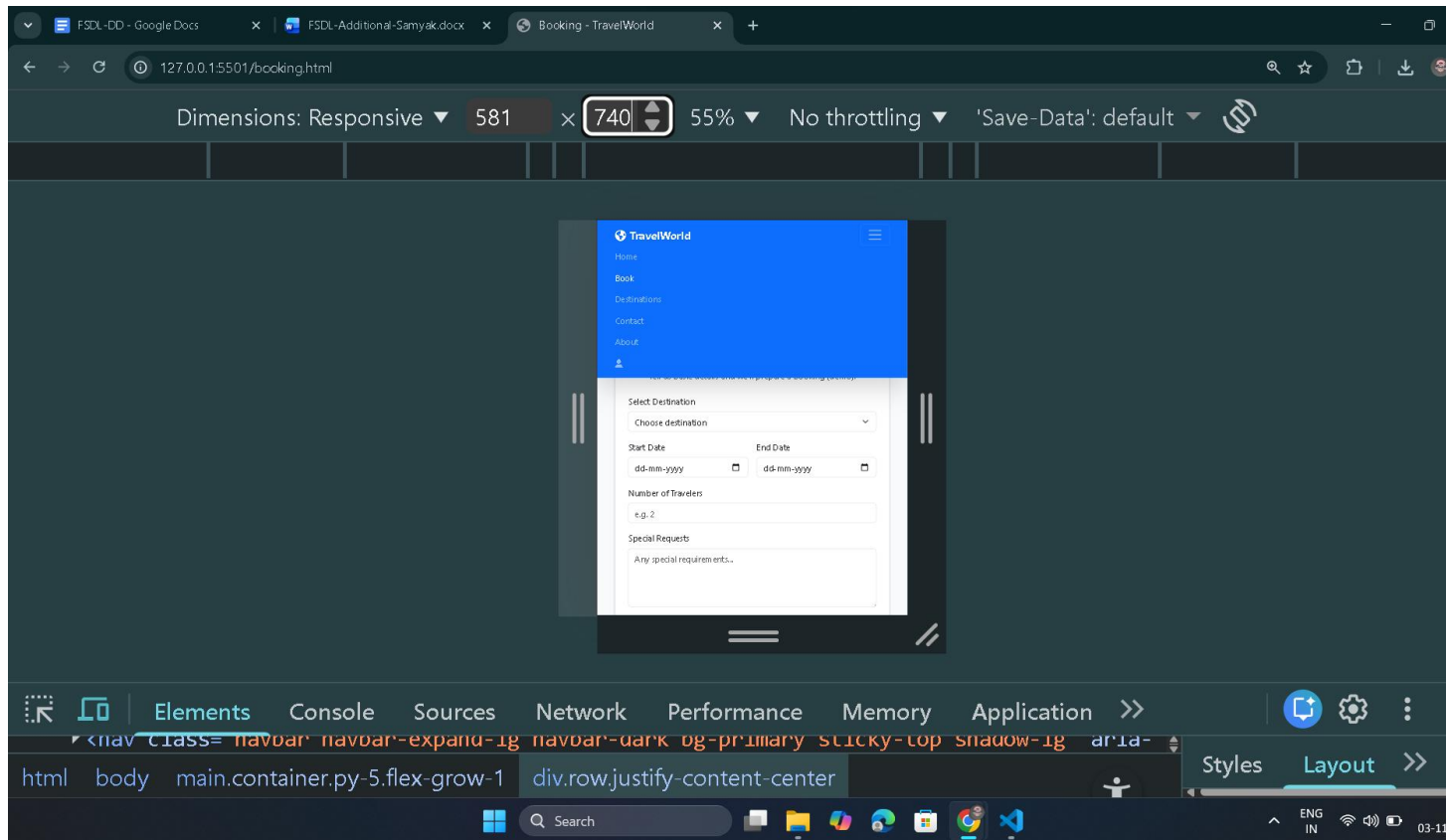
Mobile – iPhone 14 Pro Max (430x932)

Layout: Adapts to a single-column feed for better vertical scrolling on mobile.

Navigation: Top navigation replaced by a hamburger menu to save space and improve usability.

Images & Media: Images span full width and scale perfectly for mobile viewing.

Overall Experience: Excellent & optimized for mobile with intuitive navigation.

Mobile – Samsung Galaxy S8+ (360x740)

Layout: Maintains single-column format but with larger touch targets to enhance tap accuracy.

Navigation: Fully collapsed into a hamburger menu for a cleaner interface.

Images & Media: Optimized for small displays, loading without horizontal scroll issues.

Overall Experience: Smooth & performs well, though page loading may feel slightly heavy on slower networks.

5. **Breakpoint Description**

Breakpoint	Description
1920 px – 1080 px	Desktop Screen
1366 px – 768 px	Laptop Screen
768 px – 1024 px	Tablet Screen
430 px – 932 px	iPhone Screen (Large)
360 px – 740 px	Samsung S8 + Screen (Normal)

Code :

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width,initial-scale=1" />
  <title>Profile - TravelWorld</title>

  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">

  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">

  <style>
    body {
      background-color: #f8f9fa;
      min-height: 100vh;
      display: flex;
      flex-direction: column;
    }
    .profile-card {
      background: #fff;
      border-radius: 12px;
      padding: 2rem;
    }
  </style>
</head>
<body>

  <nav class="navbar navbar-expand-lg navbar-dark bg-primary shadow-sm">
    <div class="container">
      <a class="navbar-brand fw-bold" href="#">TravelWorld</a>
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navMenuProfile">
        <span class="navbar-toggler-icon"></span>
      </button>

      <div class="collapse navbar-collapse" id="navMenuProfile">
        <ul class="navbar-nav ms-auto">
          <li class="nav-item"><a class="nav-link" href="index.html">Home</a></li>
          <li class="nav-item"><a class="nav-link" href="booking.html">Book</a></li>
          <li class="nav-item"><a class="nav-link" href="destinations.html">Destinations</a></li>
          <li class="nav-item"><a class="nav-link" href="contact.html">Contact</a></li>
          <li class="nav-item"><a class="nav-link" href="about.html">About</a></li>
          <li class="nav-item"><a class="nav-link active" href="profile.html" aria-current="page"><i class="fas fa-user"></i></a></li>
        </ul>
      </div>
    </div>
  </nav>

  <main class="container flex-grow d-flex justify-content-center align-items-center py-5">
    <div class="col-11 col-md-6 col-lg-5">
      <div class="profile-card shadow-lg">
      <h1 class="h4 text-center text-primary fw-bold mb-4">
        <i class="fas fa-user-circle me-2" aria-hidden="true"></i>Your Profile
      </h1>

      <form id="profileForm" novalidate>
        <div class="mb-3">
          <label for="fullname" class="form-label">Full Name</label>
          <input id="fullname" name="fullname" type="text" class="form-control" value="John Doe" required>
          <div class="invalid-feedback">Please enter your full name.</div>
        </div>

        <div class="mb-3">
          <label for="email" class="form-label">Email</label>
          <input id="email" name="email" type="email" class="form-control" value="johndoe@example.com" required autocomplete="email">
          <div class="invalid-feedback">Please provide a
```

valid email.</div>
        </div>

        <div class="mb-3">
          <label for="newpass" class="form-label">New Password</label>
          <input id="newpass" name="newpass" type="password" class="form-control" placeholder="Leave blank to keep current" autocomplete="new-password">
          <div class="form-text">Use at least 8 characters for a strong password.</div>
        </div>

        <div class="mb-4">
          <label for="confirmpass" class="form-label">Confirm New Password</label>
          <input id="confirmpass" name="confirmpass" type="password" class="form-control" placeholder="Repeat new password" autocomplete="new-password">
          <div class="invalid-feedback">Passwords do not match.</div>
        </div>

        <div class="d-grid">
          <button id="updateBtn" type="submit" class="btn btn-primary">Update Profile</button>
        </div>
      </form>
    </div>
  </div>
 </main>

 <div class="modal fade" id="successModal" tabindex="-1" aria-labelledby="successModalLabel" aria-hidden="true">
   <div class="modal-dialog modal-dialog-centered">
     <div class="modal-content">
      <div class="modal-header">
       <h5 class="modal-title" id="successModalLabel">Profile Updated</h5>
       <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>

      </div>
      <div class="modal-body">
       Your profile has been updated (dummy). Changes are not persisted in this demo.
      </div>
      <div class="modal-footer">
       <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">Close</button>
      </div>
     </div>
   </div>
 </div>

 <footer class="bg-dark text-white text-center py-3 mt-auto">
   <p class="mb-1">© 2025 TravelWorld. All rights reserved.</p>
   <div class="d-flex justify-content-center gap-3">
     <i class="fab fa-facebook-f"></i>
     <i class="fab fa-instagram"></i>
     <i class="fab fa-twitter"></i>
   </div>
 </footer>

 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>

 <script>
   (function () {
    'use strict';
    const form = document.getElementById('profileForm');
    const modalEl = document.getElementById('successModal');
    const successModal = new bootstrap.Modal(modalEl);

    form.addEventListener('submit', function (e) {
     e.preventDefault();
     e.stopPropagation();

```
      const fullname = form.fullname.value.trim();
      const email = form.email.value.trim();
      const newpass = form.newpass.value;
      const confirmpass = form.confirmpass.value;

      let valid = true;

      if (!fullname) {
        form.fullname.classList.add('is-invalid');
        valid = false;
      } else {
        form.fullname.classList.remove('is-invalid');
      }

      if (!email || !/.+@.+\..+/.test(email)) {
        form.email.classList.add('is-invalid');
        valid = false;
      } else {
        form.email.classList.remove('is-invalid');
      }

      if (newpass || confirmpass) {
        if (newpass !== confirmpass ||
newpass.length < 8) {
          form.confirmpass.classList.add('is-invalid');
          valid = false;
        } else {
          form.confirmpass.classList.remove('is-
invalid');
        }
      } else {
        form.confirmpass.classList.remove('is-
invalid');
      }

      if (valid) {
        successModal.show();
      }
    }, false);
  })();
  </script>
</body>
</html>
```

```
<!DOCTYPE html>
<html lang="en">
<head>

<link href="https://unpkg.com/aos@2.3.1/dist/aos.css"
rel="stylesheet">
<script
src="https://unpkg.com/aos@2.3.1/dist/aos.js"></script
>
<script>
  AOS.init();
</script>

  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-
width, initial-scale=1.0" />
  <title>Register - TravelWorld</title>
  <script src="https://cdn.tailwindcss.com"></script>
  <link
href="https://cdn.jsdelivr.net/npm/aos@2.3.4/dist/aos.c
ss" rel="stylesheet">
  <script
src="https://cdn.jsdelivr.net/npm/aos@2.3.4/dist/aos.js"
></script>
  <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.0.0/css/all.min.css">

  <style>
    .modal {
      display: none;
    }
    .modal.active {
      display: flex;
    }
    body {
        background-image: url('images/register-bg.jpg');
        background-size: cover;
        background-position: center;
        background-attachment: fixed;
      }
  </style>
</head>

<body class="bg-cover bg-center min-h-screen flex
flex-col justify-between" style="background-image:
```

```html
url('images/hero.jpg');">

  <nav class="bg-blue-800 bg-opacity-90 p-4 text-
white flex justify-between shadow-lg">
    <h1 class="font-bold text-2xl">
TravelWorld</h1>
    <ul class="flex space-x-6">
      <li><a href="index.html" class="hover:text-
yellow-300">Home</a></li>
      <li><a href="booking.html" class="hover:text-
yellow-300">Book</a></li>
      <li><a href="destinations.html"
class="hover:text-yellow-
300">Destinations</a></li>
      <li><a href="contact.html" class="hover:text-
yellow-300">Contact</a></li>
      <li><a href="about.html" class="hover:text-
yellow-300">About</a></li>

      <li><a href="profile.html" class="hover:text-
yellow-300"><i class="fas fa-user"></i></a></li>
    </ul>
  </nav>

  <div class="bg-white bg-opacity-80 backdrop-
blur-md p-10 rounded-lg shadow-2xl mx-auto my-
12 w-full max-w-md" data-aos="zoom-in">
    <h2 class="text-3xl font-bold text-center text-
blue-800 mb-6">Create Your Account</h2>

    <form onsubmit="showModal(event)">
      <input type="text" placeholder="Full Name"
class="w-full mb-4 px-4 py-2 border rounded-lg
focus:ring-2 focus:ring-blue-500" required />
      <input type="email" placeholder="Email"
class="w-full mb-4 px-4 py-2 border rounded-lg
focus:ring-2 focus:ring-blue-500" required />
      <input type="password"
placeholder="Password" class="w-full mb-4 px-4
py-2 border rounded-lg focus:ring-2 focus:ring-
blue-500" required />
      <input type="password" placeholder="Confirm
Password" class="w-full mb-6 px-4 py-2 border
rounded-lg focus:ring-2 focus:ring-blue-500"
required />
      <button type="submit" class="w-full bg-
gradient-to-r from-blue-600 to-blue-400 text-white
py-2 rounded-lg shadow hover:from-blue-700
transition-all">

      Sign Up
      </button>

      <div class="container">
        <h1>Explore the World with Us</h1>
        <button onclick="showPopup()">Get
Started</button>
      </div>
      <div id="popup" class="popup">
        <p>Welcome to our Tourism Management
System!</p>
        <button onclick="closePopup()">Close</button>
      </div>

    </form>

    <p class="mt-4 text-center text-sm text-gray-700">
      Already have an account?
      <a href="login.html" class="text-blue-600
hover:underline">Login here</a>
    </p>
  </div>

  <div id="successModal" class="modal fixed inset-0
bg-black bg-opacity-50 items-center justify-center z-
50">
    <div class="bg-white rounded-lg p-8 shadow-xl text-
center w-96">
      <h3 class="text-xl font-bold text-green-600 mb-
4">   Registration Successful!</h3>
      <p class="mb-4">Welcome to TravelWorld. You
can now log in to your account.</p>
      <button onclick="closeModal()" class="bg-blue-
600 text-white px-4 py-2 rounded hover:bg-blue-
700">Close</button>
    </div>
  </div>

  <script>
    AOS.init();
    function showModal(e) {
      e.preventDefault();

document.getElementById("successModal").classList.a
dd("active");
    }
```

```
      function closeModal() {

document.getElementById("successModal").classL
ist.remove("active");
        window.location.href = "login.html";
      }
    </script>


    <footer class="bg-gray-900 text-white text-center
py-4 mt-auto">
      <p>&copy; 2025 TravelWorld. All rights
reserved.</p>
      <div class="flex justify-center space-x-4 mt-2
text-lg">
        <a href="#" class="hover:text-blue-400"><i
class="fab fa-facebook-f"></i></a>
        <a href="#" class="hover:text-pink-500"><i
class="fab fa-instagram"></i></a>
        <a href="#" class="hover:text-blue-300"><i
class="fab fa-twitter"></i></a>
      </div>
    </footer>

</body>
</html>
```
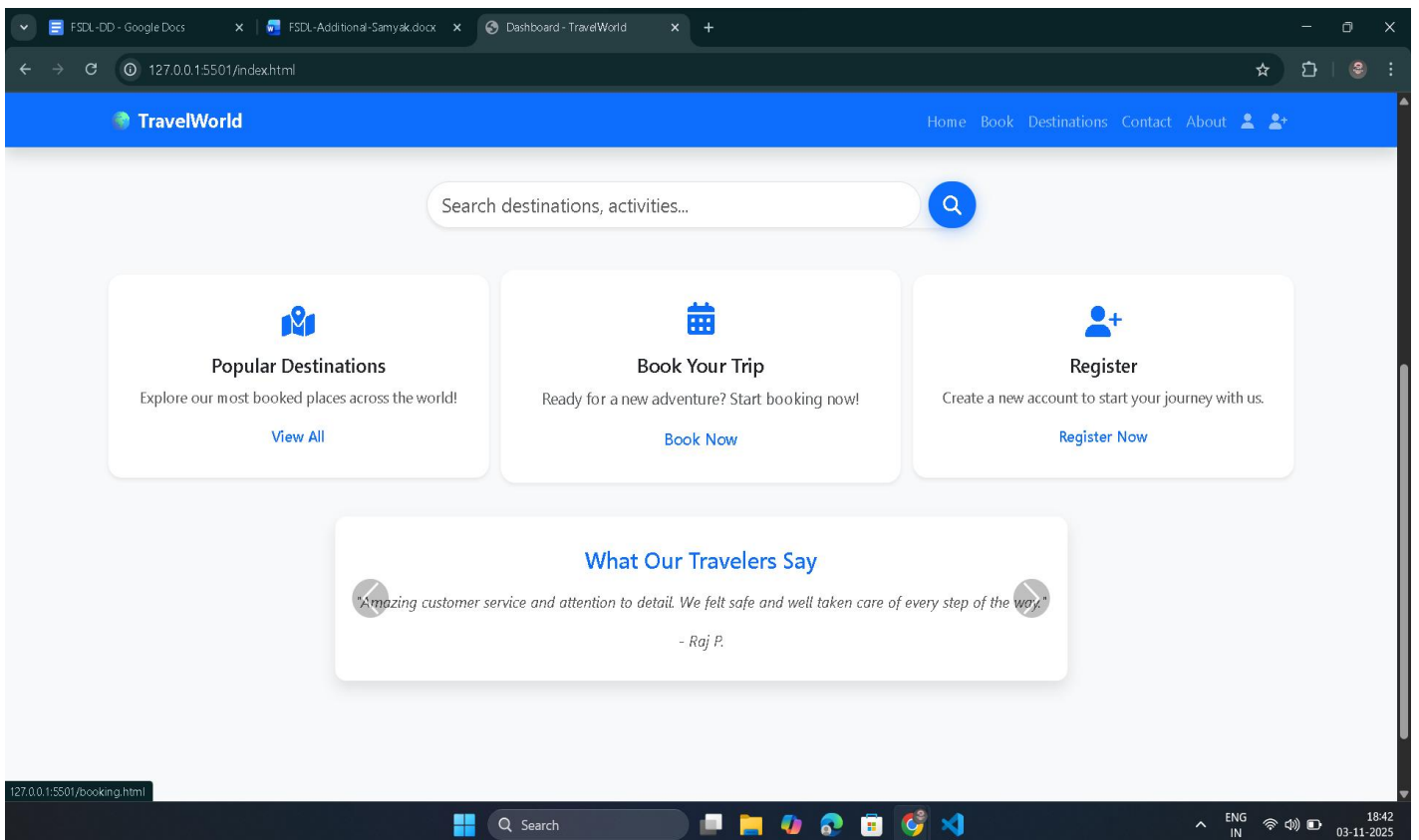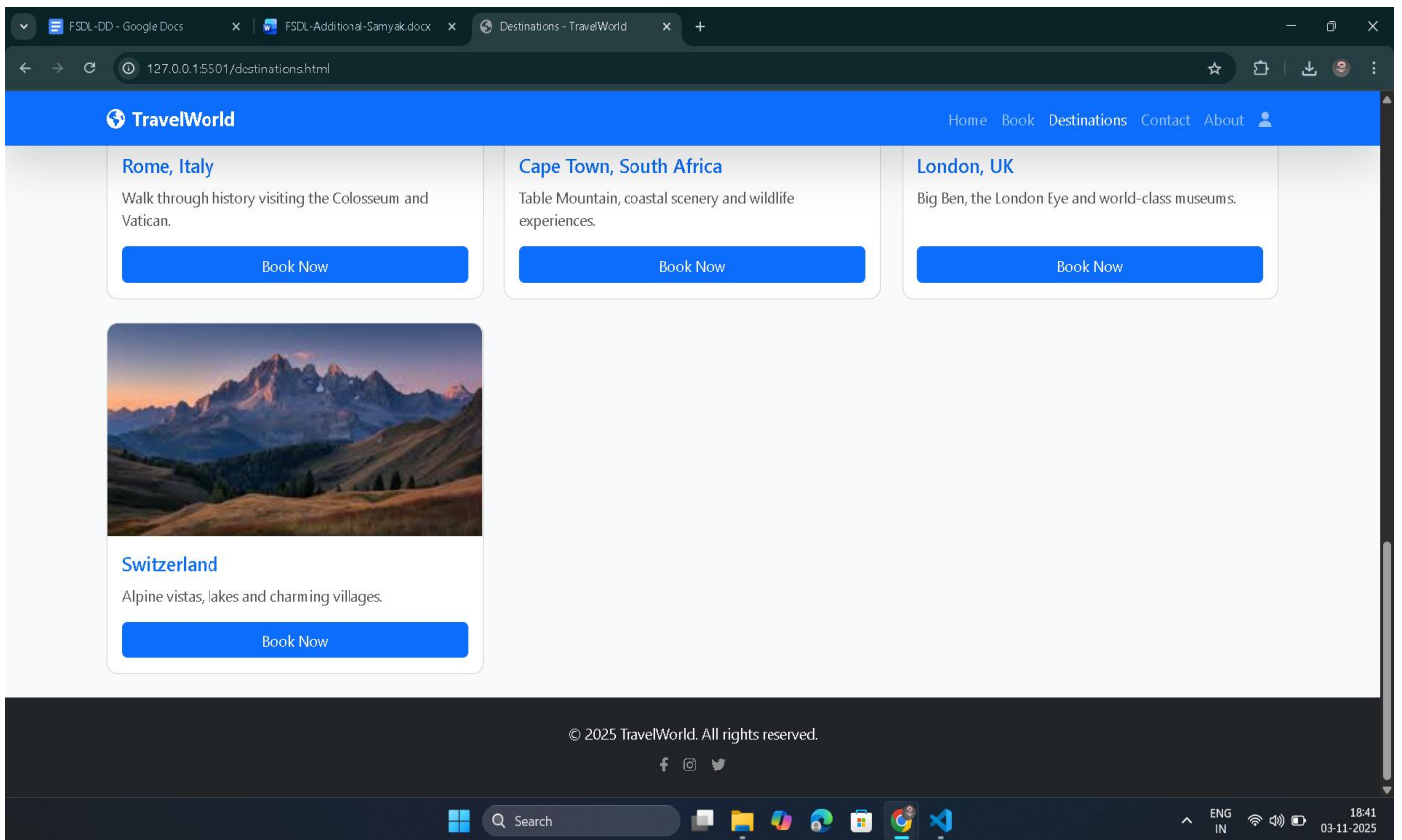
Output :

Conclusion:

We successfully implemented and tested Responsive Design Using Bootstrap.