Front-End UI/UX Mini Project

Project Submission Template

1. Title Page

- **Project Title**: *Discover Edinburgh – A front-end website to promote tourism*

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- Course: *UI/UX Design Fundamentals*

- Instructor Name*: Dhiraj*

- Institution*: Christ University*

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2. Abstract

This project is a front-end website designed to be a travel guide for Edinburgh, Scotland. It uses HTML, CSS, and the **Bootstrap 5 framework** to create a responsive, multi-section page. The website showcases key attractions, popular restaurants, local events, and things to do, and it includes a hidden navigation bar that appears as the user scrolls. The design is clean and user-friendly, providing essential information and links for tourists.

3. Objectives

- Create a visually appealing and informative front-end website for a city guide.

- Utilize a modern CSS framework, Bootstrap, for rapid development and responsiveness.

- Implement various UI components, including a hero section, image cards, and interactive carousels.

- Incorporate a hidden navigation bar that provides a better user experience on scroll.

- Provide a clear and logical layout for different types of information, such as attractions and dining.

4. Scope of the Project

- **Front-end only:** The project focuses on the visual design and user interface, with no backend functionality.

- **HTML, CSS, and Bootstrap:** The code relies on these three technologies without external JavaScript libraries beyond jQuery and Bootstrap's own bundle.

- **Static content:** All information is hardcoded into the HTML.

- **Promotional platform:** The website serves as a promotional and informational guide for tourists visiting Edinburgh.

5. Tools & Technologies Used

Tool/Technology	Purpose
HTML5	Markup and content structure
CSS3	Styling and layout responsive
VS Code	Code editor
Bootstrap 5	Responsive grid system, UI components (cards, carousels, navbar)
jQuery	Used for the fadeIn() and fadeOut() effects on the scroll navigation bar
Unsplash	Source for the hero section background image

6. HTML Structure Overview

The structure uses semantic HTML tags and is divided into distinct sections, each with a unique ID for navigation.

- <div> **with class** hero: The main landing page with a full-screen background image and a prominent title.

- <section> **tags with IDs**: Each main part of the website (#intro, #attractions, #restaurants, etc.) is contained within its own section tag.

- **Carousels**: The #restaurants and #things sections use Bootstrap's carousel component to display multiple items.

- **Navigation**: There are two navigation elements: one is hidden, and the other is a scroll-triggered fixed navigation bar with the ID #scrollNav.

7. CSS Styling Strategy

The website's styling is primarily handled by **Bootstrap's default styles** with additional custom CSS.

- **Custom Classes:** Classes like .hero, .attraction-img, and .events-bg are used for specific, non-Bootstrap styling.

- **Fixed Heights &** object-fit: cover: Images are styled to have consistent dimensions and aspect ratios across the site.

- **Hover Effects:** Cards in the restaurant and attraction sections have subtle transform and box-shadow transitions on hover.

- **Responsive Media Queries:** While the site largely relies on Bootstrap's grid for responsiveness, the event-list and other custom elements are designed to be mobile-friendly.

8. Key Features

Feature	Description
Responsive Design	Adapts to different screen sizes using Bootstrap's grid system.
Scroll-Activated Navigation	A compact navigation bar appears at the top of the screen after the user scrolls past the hero section.

Image Carousels	The restaurants and things-to-do sections feature interactive carousels to display multiple items.
Interactive Cards	Cards for attractions and restaurants have hover effects and links for more information.
Hero Banner	A full-screen, visually striking landing area with a background image of Edinburgh.

9. Challenges Faced & Solutions

Challenge	Solution
Making a website responsive	Used the Bootstrap framework to handle the complex responsive grid system, saving time on writing custom media queries
Creating dynamic content sections	Implemented **Bootstrap Carousels** to manage multiple content items within a single, space-efficient component.
Ensuring clean code organization	Separated different sections into logical blocks using HTML <section> tags and unique IDs.

10. Outcome

- The "Discover Edinburgh" website is a successful implementation of a modern, informative, and fully responsive front-end project. By leveraging **HTML, CSS, and the Bootstrap 5 framework**, the website achieves a professional aesthetic while ensuring cross-device compatibility. This project demonstrates skills in layout design, theme consistency, and the practical application of a powerful CSS framework to create an engaging user experience.

11. Future Enhancements

- Add more restaurant and attraction slides to the carousels.

- Integrate a dynamic events calendar using JavaScript and a data source.

- Implement a booking or contact form with a functional backend.

- Add smooth-scrolling behaviour for internal links without relying on jQuery.

12. Sample Code

```html
<!-- Attractions -->
<section id="attractions">
  <div class="container">
    <h2 class="text-center">Top Attractions</h2>
    <div class="row mt-4 g-4"> <!-- g-4 adds equal spacing -->
      <div class="col-md-4">
        <img src="https://images.squarespace-cdn.com/content/v1/64dd388ada7c5c224b4013f8/a9c9a7ac-2faa-4bff-ba7d-
            class="img-fluid attraction-img" alt="Edinburgh Castle">
        <h5 class="mt-2">Edinburgh Castle</h5>
        <p>Historic fortress overlooking the city.</p>
      </div>
      <div class="col-md-4">
        <img src="https://images.squarespace-cdn.com/content/v1/65687b5596a03056ac625e77/30c9921f-53bd-4fef-a360-
          class="img-fluid attraction-img" alt="Royal Mile">
        <h5 class="mt-2">Royal Mile</h5>
        <p>Cobblestone street connecting the castle and Holyrood Palace.</p>
      </div>
      <div class="col-md-4">
        <img src="https://www.chasingthelongroad.com/wp-content/uploads/2023/02/arthurs-seat-salisbury.webp"
            class="img-fluid attraction-img" alt="Arthur's Seat">
        <h5 class="mt-2">Arthur's Seat</h5>
        <p>Ancient volcano offering stunning city views.</p>
      </div>
    </div>
  </div>
```

```html
<!-- Hero Section -->
<div class="hero">
  <div>
    <h1>Welcome to Edinburgh</h1>
    <p class="lead">Scotland's historic capital filled with castles, culture, and charm.</p>
  </div>
</div>


<!-- Scroll Nav (appears after hero) -->
<nav id="scrollNav" class="navbar navbar-expand-lg navbar-dark bg-dark">
  <div class="container-fluid">
    <a class="navbar-brand" href="#">Edinburgh</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 justify-content-end" id="navbarNav">
      <ul class="navbar-nav">
        <li class="nav-item"><a class="nav-link" href="#attractions">Attractions</a></li>
        <li class="nav-item"><a class="nav-link" href="#restaurants">Restaurants</a></li>
        <li class="nav-item"><a class="nav-link" href="#things">Things to Do</a></li>
        <li class="nav-item"><a class="nav-link" href="#events">Events</a></li>
        <li class="nav-item"><a class="nav-link" href="#contact">Contact</a></li>
      </ul>
    </div>
```
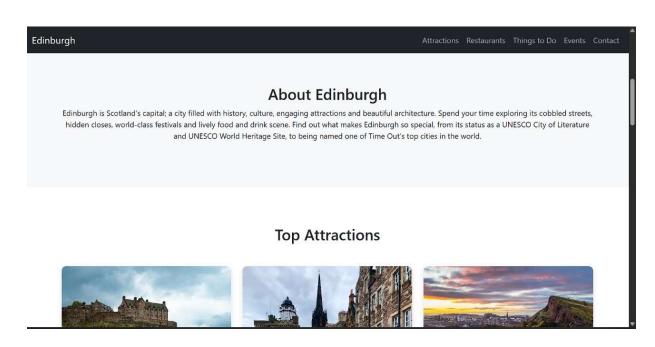
```css
/* Big banner box with background image */
.events-bg {
  position: relative;
  background: url("https://plus.unsplash.com/premium_photo-1699566448247-1627bee256d0?fm=jpg&q=60&w=3000&ixlib=
        no-repeat center center/cover;

  border-radius: 16px;
  padding: 80px 50px;  /* makes the box bigger */
  min-height: 500px;
  color: ☐white;
  display: flex;
  align-items: center;
}

/* Event list styling */
.event-list {
  list-style: disc;
  font-size: 1.2rem;
  line-height: 1.8;
  background: ■rgba(0,0,0,0.5); /* optional transparent overlay for readability */
  padding: 30px 40px;
  border-radius: 12px;
  max-width: 700px;
}
```

```html
<!-- Things to Do Carousel -->
<section id="things" class="py-5">
  <div class="container">
    <h2 class="text-center mb-4">Things to Do in Edinburgh</h2>

    <div id="thingsCarousel" class="carousel slide" data-bs-ride="false">
      <div class="carousel-inner">

        <!-- Slide 1 -->
        <div class="carousel-item">
          <div class="row g-4">
            <!-- Writers' Museum -->
            <div class="col-md-4">
              <div class="card h-100 shadow-sm">
                <img src="https://media.edinburgh.org/wp-content/uploads/2024/07/04121732/Central-Library-Will-(
                <div class="card-body">
                  <h5 class="card-title">Writers' Museum & Makars' Court</h5>
                  <p class="card-text">Learn about Robert Burns, Sir Walter Scott, and Robert Louis Stevenson, v
                  <a href="https://maps.google.com/?q=Writers%27+Museum+Edinburgh" target="_blank" class="btn bt
                </div>
              </div>
            </div>

            <!-- Scottish Storytelling Centre -->
```
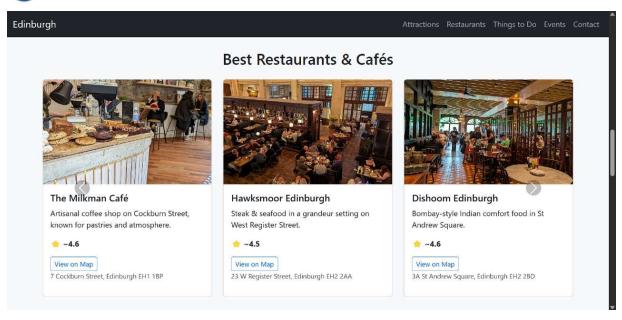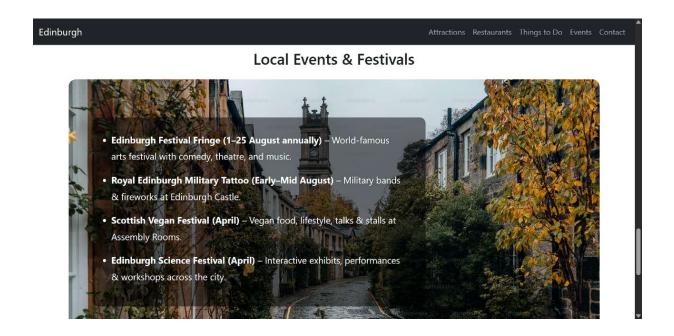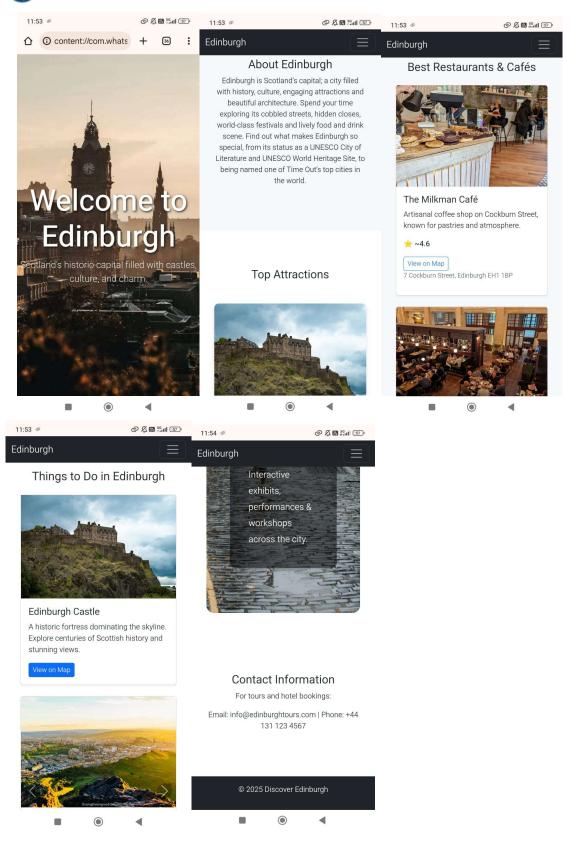
13. Screenshots of Final Output:-

11. Conclusion:-

This mini project successfully enhanced my front-end skills, particularly in the effective use of a popular framework like Bootstrap. The process improved my understanding of **UI/UX design principles**, specifically regarding **visual hierarchy** and **information organization** for a travel-focused audience. The development of features like the scroll-activated navigation and interactive carousels deepened my knowledge of dynamic web components and their impact on user engagement.

12. References:-

□ L&T LMS : https://learn.lntedutech.com/Landing/MyCourse