# Project Report – Favorite City Webpage (Barcelona Guide)

## 1. Project Overview

This project is a responsive, single-page website built using HTML5, CSS3, Bootstrap 5, and JavaScript.

The theme of the webpage is "Favorite City — Barcelona", showcasing important aspects of the city such as attractions, restaurants, things to do, local events, and contact information.

#### The webpage features:

- A hero banner with background image and introduction.
- A navigation bar for smooth scrolling between sections.
- Structured sections for Intro, Attractions, Restaurants, Things to Do, Events, and Contact.
- A Google Map embed for city location visualization.
- An interactive restaurant search filter and contact form.

## 2. Objectives

- To design a professional-looking city guide webpage using Bootstrap 5.
- To implement responsive web design principles ensuring the page works across devices.
- To showcase the integration of media (images, maps) and interactive elements.
- To provide a real-world demo of a travel/tourism website design.

#### 3. Expected Outcomes

- A functional, responsive webpage that introduces Barcelona and provides tourism-related information.
- Smooth navigation across sections (Intro, Attractions, Restaurants, etc.).
- A working restaurant search filter powered by JavaScript.
- A contact form that validates inputs before submission.

- Clean design, engaging content, and modern UI using Bootstrap components. 4. Design Sections a) Navigation Bar - Fixed at the top. - Bootstrap-based responsive navbar. - Links to all sections: Intro, Attractions, Restaurants, Things To Do, Events, Contact. b) Hero / Introduction - Background image with overlay text. - Catchy heading, sub-heading, and a CTA button ("Explore Attractions"). c) Attractions - Grid-based layout of cards. - Images and short descriptions of famous landmarks (Sagrada Família, Park Güell, La Rambla). - Interactive Google Maps embed showing Barcelona's location. d) Restaurants & Cafés - Search filter (JavaScript-based). - List group format for restaurants. - Ratings and links to Google Maps directions.

# e) Things To Do

- Card-based layout with activities (Montjuïc Hill, Barceloneta Beach, Passeig de Gràcia, Camp Nou).

### f) Local Events

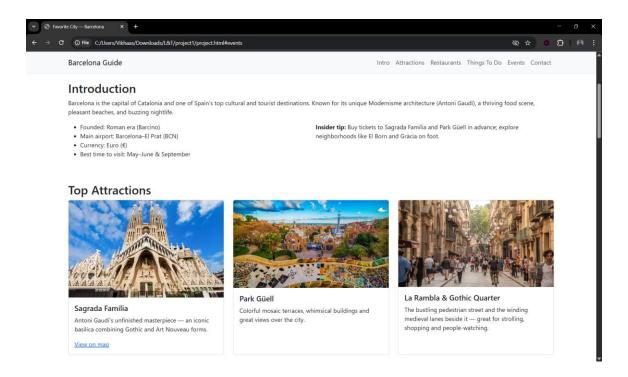
- Event cards highlighting festivals (La Mercè, Primavera Sound, Gràcia Festival).
- g) Contact & Bookings
- Tour booking and hotel info.
- A contact form with Name, Email, and Message fields.
- h) Footer
- Minimal footer with copyright.

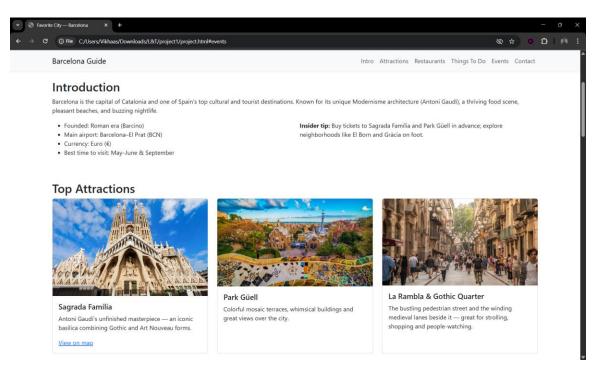
## **5. Code Snippets (Optional)**

```
Example: Restaurant Search Filter (JavaScript)
```

```
""javascript
// Restaurant search filter
document.getElementById("searchRestaurant").addEventListener("keyup", function() {
  const query = this.value.toLowerCase();
  document.querySelectorAll("#restaurantList.list-group-item").forEach(item => {
    const name = item.getAttribute("data-name");
    const cuisine = item.getAttribute("data-cuisine");
    if (name.includes(query) || cuisine.includes(query)) {
        item.style.display = "";
    } else {
        item.style.display = "none";
    }
});
```

## 6. Screenshots of the Webpages





- Attractions section with cards and Google Map.
- Restaurants section with working search bar.
- Things to Do grid.

# 7. Group Member Details

| Name        | Roll Number | Role in Project                                   |
|-------------|-------------|---------------------------------------------------|
|             | -           | -                                                 |
| Vikhaas C K | 2461036     | HTML Structure & Content & CSS/Bootstrap Styling  |
| Prajan      | 2461023     | JavaScript Interactivity & Documentation & Report |