

WEB TECHNOLOGY AND MOBILE APPLICATIONS

ASSIGNMENT – 1 HTML & CSS

AIM :

- a) Create a web page to embed a map along with hot spot, frames & links.
- b) Create a web page using an embedded, external and inline CSS file.

ALGORITHM:

Step 1: Create an HTML file (index.html).

- Define the document structure using <html>, <head>, and <body>.
- Set the page title and include internal CSS for basic styling.

Step 2: Embed an Image Map.

- Use the tag to insert an image (map).
- Define a <map> element with a name attribute.
- Add <area> elements inside the <map> with different shapes (rectangle, circle, polygon).
- Assign href attributes to the <area> elements to make them clickable.

Step 3: Create Hyperlinks.

- Add <a> tags that allow navigation to different pages.
- Use the target attribute to open the linked pages in a frame.

Step 4: Add an Inline Frame (iframe).

- Use the <iframe> tag to display linked pages within the same webpage.
- Set the name attribute for the iframe to target it from links.

Step 5: Create Additional Pages (page1.html, page2.html).

- Define a simple HTML structure.
- Apply CSS styles for a visually appealing design.
- Test the project to ensure the map hotspots and frames work correctly.

PROGRAM:

1.index.html

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Map Page</title>

    <link rel="stylesheet" href="styles.css"> <!-- External CSS -->

</head>

<body>


    <h1>Welcome to Our Map Page</h1>


    <nav>

        <a href="index.html">Home</a>

        <a href="hotspot.html">Hotspot Places</a>

        <a href="about.html">About Us</a>

    </nav>


    <h2>Embedded Google Map</h2>
```

```
<iframe
    src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d3151.83
5434509367!2d144.95373631558554!3d-
37.81720974201433!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13.1!3m3!1m2!1s0x6
ad642af0f11fd81%3A0x5045675218ce7e33!2sMelbourne%20VIC%2C%20Austr
alia!5e0!3m2!1sen!2s!4v1640609893874!5m2!1sen!2s"
    width="600" height="450" allowfullscreen="" loading="lazy">
</iframe>

</body>
</html>
```

2.hotspot.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Hotspot Places</title>
    <link rel="stylesheet" href="styles.css"> <!-- External CSS -->
    <style>
        /* Embedded CSS for Grid Layout */
        .hotspot-grid {
            display: grid;
            grid-template-columns: repeat(2, 1fr); /* 2 Columns */
            gap: 20px;
            padding: 20px;
```

```
        text-align: center;
    }
    .hotspot-grid img {
        width: 100%;
        max-width: 300px;
        height: auto;
        border-radius: 10px;
        box-shadow: 2px 2px 10px rgba(0, 0, 0, 0.2);
    }
</style>
</head>
<body>

    <h1>Hotspot Places</h1>

    <nav>

        <a href="index.html">Home</a>
        <a href="hotspot.html">Hotspot Places</a>
        <a href="about.html">About Us</a>

    </nav>

    <map name="worldmap">

        <area shape="rect" coords="50,50,150,150" href="https://www.usa.gov/"
alt="USA">

        <area shape="circle" coords="300,150,50" href="https://www.uk.gov/"
alt="UK">
```

```
        <area shape="poly" coords="400,200,450,250,500,200,450,150"
href="https://www.india.gov.in/" alt="India">
```

```
</map>
```

```
<h2>Hotspot Locations</h2>
```

```
<div class="hotspot-grid">
```

```
    <div>
```

```
        
```

```
        <a href="https://www.google.com/maps?q=40.712776,-74.005974"></a>
```

```
        <p>New York, USA</p>
```

```
    </div>
```

```
    <div>
```

```
        
```

```
        <p>London, UK</p>
```

```
    </div>
```

```
    <div>
```

```
        
```

```
        <p>Paris, France</p>
```

```
    </div>
```

```
    <div>
```

```
        
```

```
        <p>Tokyo, Japan</p>
```

```
    </div>
```

```
</div>
```

```
</body>
```

```
</html>
```

3.about.html

```
<!DOCTYPE html>
```

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

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>About Us</title>
```

```
  <link rel="stylesheet" href="styles.css"> <!-- External CSS -->
```

```
  <style>
```

```
    .about-container {
```

```
      margin-top: 50px;
```

```
      padding: 20px;
```

```
      background: rgba(255, 255, 255, 0.2);
```

```
      border-radius: 10px;
```

```
      display: inline-block;
```

```
      text-align: center;
```

```
      color: #fff;
```

```
    }
```

```
    .about-container p {
```

```
      font-size: 20px;
```

```
      margin: 5px 0;
```

```
    }
</style>
</head>
<body>

    <h1>About Us</h1>

    <nav>
        <a href="index.html">Home</a>
        <a href="hotspot.html">Hotspot Places</a>
        <a href="about.html">About Us</a>
    </nav>

    <div class="about-container">
        <p><strong>Name:</strong> Aravind.S</p>

        <p><strong>Contact:</strong> worldmaphotspots.gmail.com</p>
    </div>

</body>
</html>
```

4.styles.css

```
/* General Styles */
```

```
body {  
    font-family: 'Arial', sans-serif;  
    background-color: #f4f4f4;  
    text-align: center;  
    margin: 0;  
    padding: 0;  
}
```

```
/* Navigation Bar */
```

```
nav {  
    background-color: #333;  
    padding: 15px;  
    box-shadow: 0px 4px 8px rgba(0, 0, 0, 0.2);  
}
```

```
nav a {  
    text-decoration: none;  
    margin: 0 15px;  
    padding: 10px 15px;  
    background-color: #007BFF;  
    color: white;  
    border-radius: 5px;  
    font-weight: bold;
```



```
        transition: 0.3s ease-in-out;
    }

    nav a:hover {
        background-color: #0056b3;
        transform: scale(1.1);
    }

    /* Headings */
    h1 {
        color: #222;
        font-size: 2.5rem;
        margin-top: 20px;
        text-shadow: 2px 2px 5px rgba(0, 0, 0, 0.2);
    }

    h2 {
        color: #444;
        font-size: 2rem;
    }

    /* Image Map Styling */
    img {
        max-width: 100%;
        border-radius: 10px;
```

```
    box-shadow: 4px 4px 10px rgba(0, 0, 0, 0.2);
}

/* Grid Layout for Hotspot Images */
.hotspot-grid {
    display: grid;
    grid-template-columns: repeat(auto-fit, minmax(250px, 1fr));
    gap: 20px;
    padding: 20px;
    justify-items: center;
}

.hotspot-grid div {
    background-color: white;
    padding: 15px;
    border-radius: 10px;
    transition: transform 0.3s ease-in-out, box-shadow 0.3s ease-in-out;
}

.hotspot-grid div:hover {
    transform: translateY(-5px);
    box-shadow: 0px 5px 15px rgba(0, 0, 0, 0.3);
}

.hotspot-grid img {
```

```
width: 100%;
max-width: 300px;
height: auto;
border-radius: 10px;
transition: 0.3s ease-in-out;
}

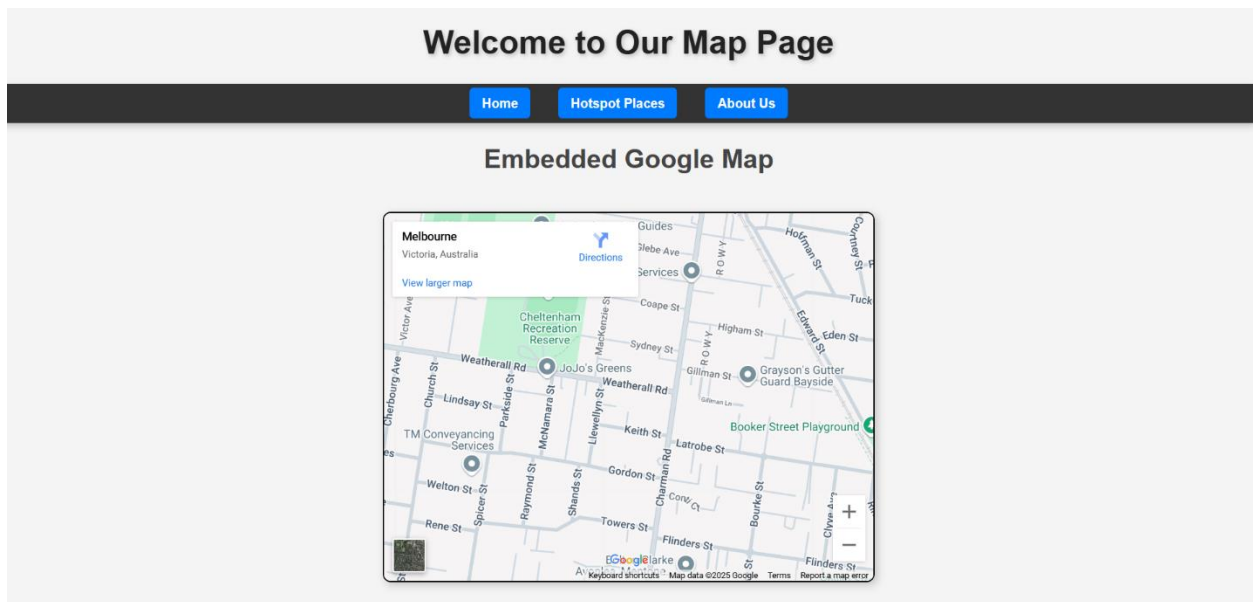
.hotspot-grid img:hover {
    transform: scale(1.05);
}

/* Iframe Styling */
iframe {
    border: 2px solid black;
    border-radius: 10px;
    margin-top: 20px;
    box-shadow: 3px 3px 10px rgba(0, 0, 0, 0.2);
}

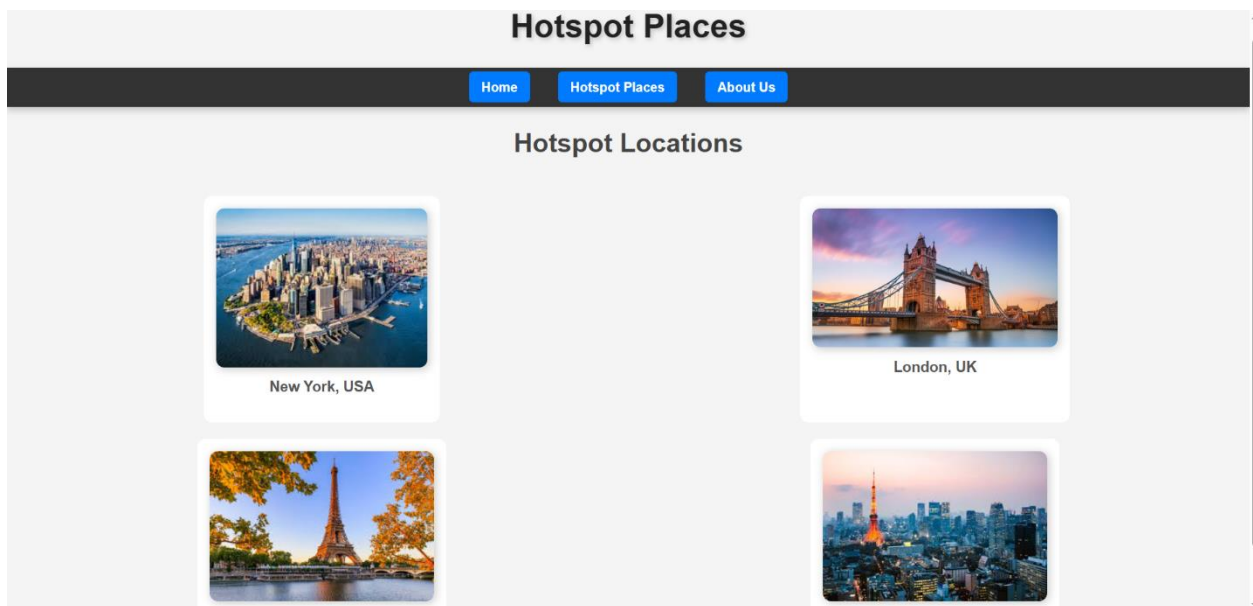
/* Paragraph Styling */
p {
    font-size: 18px;
    color: #555;
    margin-top: 10px;
    font-weight: bold;
}
```

OUTPUT:

1.Embedded Maps



2.Embedded Frames



RESULT: The image map with hotspots, frames, and links is successfully created.

