

<b>EXP.NO: 1</b>	<b>Web Page Creation using HTML</b>
<b>DATE:</b> <b>29/01/2025</b>	

### **AIM:**

To create a web page that embeds a map with hotspots, frames, and links. The web page should be designed using HTML, incorporating embedded, external, and inline CSS for styling. This exercise aims to enhance understanding of integrating multimedia elements like maps, creating interactive hotspots, and organizing content using frames while applying different CSS techniques for styling.

### **ALGORITHM:**

#### **Create the HTML structure:**

- Set up the basic HTML document with `<!DOCTYPE html>`, `<html>`, `<head>`, and `<body>` tags.
- In the `<head>`, link the external CSS file (`<link>` tag), define the title, and include any metadata.
- In the `<body>`, create the necessary elements:
  - **Frames:** Use the `<frameset>` tag to create a frame layout (for older browsers, use `<iframe>` instead).
  - **Map:** Use the `<img>` tag to display a map.
  - **Hotspots:** Create clickable regions using the `<map>` and `<area>` tags.
  - **Links:** Add hyperlinks (`<a>`) to navigate to different parts of the page or external sites.
  -

#### **Create CSS Styles:**

- **External CSS:** In a separate file, define styles such as colors, fonts, and layout for the entire page.

- **Inline CSS:** Use the style attribute within specific tags to apply styles (e.g., in <div> or <p> tags).
- **Embedded CSS:** Inside the <style> tag in the <head>, define styles for specific elements like the map, frames, and text.

### Map with Hotspots:

- Use the <map> tag to create an image map.
- Define the <area> tag for each hotspot, specifying the coordinates (e.g., coords="x,y,x2,y2") for clickable areas on the map.

### Frames:

- Use the <iframe> tag for embedding external content like a map or another webpage, with attributes such as src for the URL, width, and height.

### Add Links:

- Inside the <body>, use the <a> tag to create links for navigation (for example, to link to specific parts of the page or external sites).

### Test the Page:

- Test the webpage to check the functionality of frames, hotspots, and links. Ensure that the map hotspots are clickable and the linked content displays correctly.
- Ensure that the styles are applied properly using inline, embedded, and external CSS.

### PROGRAM:

Index.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Chennai Interactive Map</title>
  <link rel="stylesheet" href="style.css">

  <!-- Embedded CSS -->
  <style>
    h1 {
      text-align: center;
      color: #ffffff;
      margin: 15px 0;
    }
```

```

.selector {
  display: flex;
  justify-content: space-around;
  flex-wrap: wrap;
  gap: 12px;
  margin-top: 15px;
}

.spot {
  cursor: pointer;
  font-size: 16px;
  padding: 10px 16px;
  background: linear-gradient(145deg, #ffdddd, #ffffff);
  border-radius: 12px;
  border: 2px solid #ff3d3d;
  font-weight: bold;
  text-decoration: none;
  color: black;
  transition: transform 0.3s, box-shadow 0.3s;
  box-shadow: 3px 3px 8px rgba(0,0,0,0.25);
}

.spot:hover {
  transform: translateY(-3px);
  box-shadow: 6px 6px 14px rgba(0,0,0,0.35);
}

.spot.back {
  border-color: #2196f3;
  background: linear-gradient(145deg, #d6ecff, #ffffff);
}
</style>
</head>

<body>

<h1>Chennai Interactive Map with Connected Hotspots</h1>

<div class="layout">

  <!-- LEFT PANEL -->
  <iframe src="left.html" class="side"></iframe>

```

```

<!-- CENTER -->
<div class="center">

    <!-- MAP 1 -->
    <div class="card">
        <h2>Chennai Region Map</h2>

        <iframe
            name="mainMap"
            src="https://www.google.com/maps?q=Chennai&z=11&output=embed
"
            class="map">
        </iframe>
    </div>

    <!-- MAP 2 -->
    <div class="card">
        <h2>Chennai Hotspot Selector</h2>

        <div class="selector">
            <a class="spot"
                href="https://www.google.com/maps?q=Chennai+Central+Railway+
Station&z=15&output=embed"
                target="mainMap">📍 Chennai Central</a>

            <a class="spot"
                href="https://www.google.com/maps?q=Marina+Beach+Chennai&z=
15&output=embed"
                target="mainMap">📍 Marina Beach</a>

            <a class="spot"
                href="https://www.google.com/maps?q=IIT+Madras&z=15&output=
embed"
                target="mainMap">📍 IIT Madras</a>

            <a class="spot back"
                href="https://www.google.com/maps?q=Chennai&z=11&output=emb
ed"
                target="mainMap">🔄 Back to Chennai View</a>
        </div>

```

```

        <p class="info">
            Click a location to zoom the map. Use reset to return to Chennai view.
        </p>
    </div>

</div>

<!-- RIGHT PANEL -->
<iframe src="right.html" class="side"></iframe>

</div>

</body>
</html>

```

## STYLE.CSS:

```

body {
    margin: 0;
    font-family: "Segoe UI", sans-serif;

    /* Animated map-like gradient background */
    background: linear-gradient(270deg, #0f2027, #203a43, #2c5364);
    background-size: 600% 600%;
    animation: gradientMove 12s ease infinite;
}

@keyframes gradientMove {
    0% { background-position: 0% 50%; }
    50% { background-position: 100% 50%; }
    100% { background-position: 0% 50%; }
}

.layout {
    display: flex;
    gap: 15px;
    padding: 15px;
}

/* LEFT & RIGHT PANELS */
.side {
    width: 20%;

```

```

height: 860px;
border-radius: 18px;
border: none;

background: linear-gradient(145deg, #ffffff, #e6e6e6);
box-shadow: inset 4px 4px 10px rgba(0,0,0,0.2),
            inset -4px -4px 10px rgba(255,255,255,0.7);
}

/* CENTER */
.center {
width: 60%;
display: flex;
flex-direction: column;
gap: 22px;
}

/* CARD WITH 3D EFFECT */
.card {
background: linear-gradient(145deg, #ffffff, #f1f1f1);
padding: 18px;
border-radius: 20px;
box-shadow: 6px 6px 18px rgba(0,0,0,0.35),
            -6px -6px 18px rgba(255,255,255,0.6);
}

.card h2 {
text-align: center;
color: #203a43;
}

.map {
width: 100%;
height: 330px;
border-radius: 14px;
border: 2px solid #203a43;
}

.info {
text-align: center;
font-weight: bold;
color: #203a43;
margin-top: 12px;
}

```

```
}
```

## LEFT.HTML:

```
<!DOCTYPE html>
<html>
<head>
  <title>Technologies Used</title>
</head>

<body style="
font-family:Segoe UI;
padding:18px;
background: linear-gradient(135deg, #e0f7fa, #ffffff);
">

<h2 style="color:#006064;">☘ Technologies Used</h2>

<ul style="line-height:1.9; font-weight:500;">
  <li>Google Embedded Map</li>
  <li>Hotspot Location Selector</li>
  <li>Frames using iframe</li>
  <li>HTML Anchor Navigation</li>
  <li>Inline CSS</li>
  <li>Embedded CSS</li>
  <li>External CSS</li>
</ul>

<p>
This panel explains the tools and techniques used to design
an interactive map-based webpage.
</p>

</body>
</html>
```

## RIGHT.HTML:

```
<!DOCTYPE html>
```

```

<html>
<head>
  <title>Location Information</title>
</head>

<body style="
font-family: Segoe UI;
padding: 18px;
background: linear-gradient(135deg, #fff3e0, #ffffff);
">

<h2 style="color: #e65100;">📍 Location Details</h2>

<ul style="line-height: 1.9; font-weight: 500;">
  <li>
    <a href="https://en.wikipedia.org/wiki/Chennai_Central_railway_station"
target="_blank">
      Chennai Central Railway Station
    </a>
  </li>
  <li>
    <a href="https://en.wikipedia.org/wiki/Marina_Beach" target="_blank">
      Marina Beach
    </a>
  </li>
  <li>
    <a href="https://en.wikipedia.org/wiki/IIT_Madras" target="_blank">
      IIT Madras
    </a>
  </li>
</ul>

<p>
Click any link to learn more about the selected Chennai location.
</p>

</body>
</html>

```



## OUTPUT:

