

EXP.NO: 1

DATE: Web Page Creation using HTML

29/01/2025

AIM:

To create a web page using HTML that embeds a map with interactive hotspots, frames, and links. The page should use inline, internal, and external CSS for styling. This exercise helps in understanding multimedia integration, interactive elements, and different CSS techniques for web design.

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:
 - 1) **Frames:** Use the <frameset> tag to create a frame layout (for older browsers, use <iframe> instead).
 - 2) **Map:** Use the tag to display a map.
 - 3) **Hotspots:** Create clickable regions using the <map> and <area> tags.
 - 4) **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.

CODE:

```
<!DOCTYPE html>

<html lang="en">
<head>
<meta charset="UTF-8">
<title>Insurance Company Registration</title>

<style>
body {
  margin: 0;
}
```

```
font-family: Arial, sans-serif;  
background: linear-gradient(to right, #003973, #00aaff);  
}
```

```
/* Header */
```

```
.header {  
text-align: center;  
padding: 30px;  
color: white;  
font-size: 22px;  
font-weight: bold;  
}
```

```
/* Form Section */
```

```
.section {  
background: white;  
margin: 25px auto;  
padding: 25px;  
width: 90%;  
max-width: 520px;  
border-radius: 15px;  
box-shadow: 0px 10px 20px rgba(0,0,0,0.2);  
}
```

```
/* Form Box */
```

```
.form-box {  
max-width: 450px;  
margin: auto;
```

```
}
```

```
/* Input Fields */
```

```
input, textarea {
```

```
    width: 100%;
```

```
    padding: 10px;
```

```
    margin: 8px 0;
```

```
    border-radius: 6px;
```

```
    border: 1px solid #ccc;
```

```
    font-size: 14px;
```

```
}
```

```
/* Text Area */
```

```
textarea {
```

```
    resize: none;
```

```
    height: 60px;
```

```
}
```

```
/* Button */
```

```
button {
```

```
    width: 100%;
```

```
    padding: 12px;
```

```
    background: #003973;
```

```
    color: white;
```

```
    border: none;
```

```
    border-radius: 6px;
```

```
    font-size: 16px;
```

```
    cursor: pointer;
```

```
transition: 0.3s;

}

button:hover {
    background: #00aaff;
}

</style>

<script>

function validateForm() {
    var fname = document.getElementById("fname").value.trim();
    var lname = document.getElementById("lname").value.trim();
    var password = document.getElementById("password").value;
    var email = document.getElementById("email").value.trim();
    var mobile = document.getElementById("mobile").value.trim();
    var address = document.getElementById("address").value.trim();

    var namePattern = /^[A-Za-z]+$/;
    var emailPattern = /^[a-zA-Z0-9._]+@[a-zA-Z]+\.[a-zA-Z]{2,}$/;
    var mobilePattern = /^[0-9]{10}$/;

    if (!namePattern.test(fname) || fname.length < 6) {
        alert("First Name must contain alphabets only and minimum 6 characters.");
        return false;
    }

    if (lname === "") {
        alert("Last Name cannot be empty.");
        return false;
    }
}
```

```
}

if (password.length < 6) {
    alert("Password must be at least 6 characters long.");
    return false;
}

if (!emailPattern.test(email)) {
    alert("Invalid Email ID (name@domain.com).");
    return false;
}

if (!mobilePattern.test(mobile)) {
    alert("Mobile Number must contain exactly 10 digits.");
    return false;
}

if (address === "") {
    alert("Address cannot be empty.");
    return false;
}

alert("Insurance Registration Successful! Our agent will contact you soon.");
return true;
}

</script>
```

```
</head>
```

```
<body>
```

```
<div class="header">
```



 Customer Registration Portal
</div>

```
<div class="section">
  <div class="form-box">
    <h3 style="text-align:center; color:#003973;">Policy Holder Registration Form</h3>

    <form onsubmit="return validateForm()">
      <input type="text" id="fname" placeholder="First Name">
      <input type="text" id="lname" placeholder="Last Name">
      <input type="password" id="password" placeholder="Password">
      <input type="text" id="email" placeholder="Email ID">
      <input type="text" id="mobile" placeholder="Mobile Number">
      <textarea id="address" placeholder="Residential Address"></textarea>

      <button type="submit">Register for Insurance</button>
    </form>
  </div>
</div>

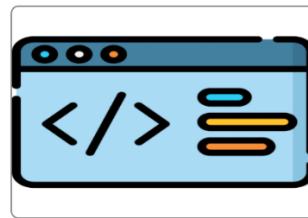
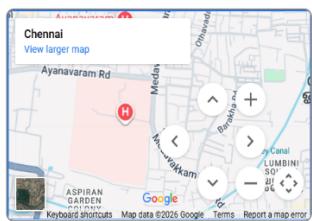
</body>
</html>
```

OUTPUT:

RS Insurance Company Management System

Secure Your Life, Health, and Property

Company Location & Hotspot



Insurance Policy Data

Policy ID	Customer Name	Policy Type	Premium (₹)	Status
RS101	Ramesh Kumar	Life Insurance	12,000	Active
RS102	Sneha Devi	Health Insurance	8,500	Active
RS103	Arjun Singh	Vehicle Insurance	6,200	Expired
RS104	Priya Sharma	Home Insurance	15,000	Active

RESULT:

HTML page is created with embedded Chennai map along with hot spot, frames & links.