

## Experiment 2 - Web Technology

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Aim:

Write a code in HTML to create a web page using the following

- i) To embed an image map in a web page
- ii) To fix the hot spots
- iii) To show all the related information when the hot spots are clicked.
- iv) To get the Coordinates from an Image using Java Script.

Theory:

i) What is Hot Spot in HTML?

Ans: Description. **The HTML <area> tag defines a clickable area (or hotspot) inside of an image map.** You can associate a hyperlink with this clickable area. This tag must be within a <map> tag. This tag is also commonly referred to as the <area> element.

ii) What various tags can be used here?

Ans:

**<html>**: Defines the root of an HTML document.

1. **<head>**: Contains metadata about the document such as title, character set, and links to stylesheets.
2. **<title>**: Sets the title of the HTML document.
3. **<body>**: Contains the content of the HTML document that is displayed in the browser.
4. **<h1> to <h6>**: Defines headings of different levels.
5. **<p>**: Defines a paragraph.
6. **<a>**: Defines a hyperlink.
7. **<img>**: Embeds an image in the document.
8. **<ul>**: Defines an unordered list.
9. **<ol>**: Defines an ordered list.
10. **<li>**: Defines a list item within **<ul>** or **<ol>**.
11. **<div>**: Defines a division or a section in an HTML document.
12. **<span>**: Defines a section in a document for styling purposes.
13. **<input>**: Defines an input control.
14. **<button>**: Defines a clickable button.
15. **<form>**: Defines a form for user input.
16. **<label>**: Defines a label for an **<input>** element.
17. **<textarea>**: Defines a multiline input control.
18. **<select>**: Defines a dropdown list.
19. **<option>**: Defines an option in a **<select>** dropdown.

iii) What is Java Script?

Ans: JavaScript is a high-level, dynamic, interpreted programming language primarily used for creating interactive and dynamic content on websites. Originally developed by Brendan Eich at Netscape Communications Corporation in 1995, JavaScript has since become one of the most widely used programming languages, particularly for web development.

JavaScript enables developers to add functionality to web pages, such as responding to user actions, manipulating the content of a webpage dynamically, validating input data, and communicating with servers to fetch or send data asynchronously without reloading the page (a technique known as AJAX - Asynchronous JavaScript and XML). It is often used in conjunction with HTML and CSS to create rich, interactive web applications.

Code:

**HTML:**

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Zomato - Find Restaurants Nearby</title>

<link rel="stylesheet"
href="/home/veeransh/Desktop/Lab_work/WT/css/zomato_webpage.css"> <!--
Link to your CSS file -->

<style>

/* CSS to position the image */

#map-container {

    position: relative;

    width: 100%;

    height: 100vh;
```

```
}

#map-img {

    position: absolute;

    bottom: 0;

    left: 50%;

    transform: translateX(-50%);

    width: 100%;

    height: 10%;

}

</style>

</head>

<body>

<header>

<div class="container">

    <h1>Zomato</h1>

    <nav>

        <ul>

            <li><a href="https://www.zomato.com/login">Login</a></li>

            <li><a href="https://www.zomato.com/">Home</a></li>

            <li><a href="https://www.zomato.com/contacts">Contact</a></li>

            <li><a href="https://www.zomato.com/who-we-are">About</a></li>

        </ul>

    </nav>

</div>
```

```
</header>

<section id="search">

  <div class="container">

    <h2>Find Restaurants Nearby</h2>

    <form action="#" method="GET">

      <input type="text" name="location" placeholder="Enter your
location">

      <button type="submit">Search</button>

      <input type="text" name="location" placeholder="Enter Cuisine">

      <button type="submit">Search</button>

    </form>

  </div>

</section>

<!-- Add the image of the Indian map here -->

<div

  style = "display: flex;

  justify-content: center;

  align-items: center;

  margin: 3px;">

  

</div>


<map name="India">

    <area shape="poly"
coords="172,562,172,555,165,559,171,569,178,565,179,557,159,555,160,567
,154,561,151,570" title="MUmbai" href="https://www.zomato.com/mumbai">

    <area shape="poly"
coords="288,716,295,718,302,710,296,708,287,705,280,712,282,720,291,724
,302,722,309,716,301,702,291,698,282,701,276,706,273,713,275,719,284,72
7,299,729,310,723,309,709" title="Banglore"
href="https://www.zomato.com/bangalore">

    <area shape="poly"
coords="555,449,546,452,549,460,554,466,565,465,567,454,557,461,565,443
,551,443,540,443,537,453,543,463,557,472,548,471,568,471,574,461,574,44
9,571,436,560,434,548,434" title="Kolkata"
href="https://www.zomato.com/kolkata">

    <area shape="poly"
coords="273,273,280,293,285,284,274,283,267,292,273,301,282,304,291,297
,294,287,293,269,286,274,301,279,267,279,260,291,265,300,277,309,293,30
5,297,294,259,281,305,287,285,264,313,282,320,283,334,283,327,285,341,2
82,332,293,338,290,321,292,315,291" title="Delhi"
href="https://www.zomato.com/ncr">
```

```
</map>

<script>

    document.addEventListener('DOMContentLoaded', function() {

        var mapImg = document.getElementById('map-img');

        mapImg.addEventListener('click', function(event) {

            var x = event.offsetX;

            var y = event.offsetY;

            console.log('Clicked coordinates: (' + x + ', ' + y + ')');

        });

    });

</script>

</body>

</html>
```

## CSS:

```
/* styles.css */

/* Reset default margin and padding */
```

```
* {  
  
    margin: 0;  
  
    padding: 0;  
  
    box-sizing: border-box;  
  
}  
  
body {  
  
    font-family: Arial, sans-serif;  
  
    background-color: #f8f8f8;  
  
}  
  
.container {  
  
    width: 80%;  
  
    margin: 0 auto;  
  
}  
  
header {  
  
    background-color: #e74c3c;  
  
    color: #fff;  
  
    padding: 20px 0;  
  
}  
  
header h1 {  
  
    font-size: 28px;  
  
}  
  
nav ul {  
  
    list-style: none;  
  
}  
  
nav ul li {
```

```
display: inline;

margin-right: 20px;
}

nav ul li a {

color: #fff;

text-decoration: none;
}

#search {

padding: 50px 0;

text-align: center;
}

#search h2 {

margin-bottom: 20px;
}

#search input[type="text"] {

width: 300px;

padding: 10px;

border: 1px solid #ccc;

border-radius: 5px;

font-size: 16px;
}

#search button {

padding: 10px 20px;

background-color: #e74c3c;

border: none;
```



```
color: #fff;

border-radius: 5px;

font-size: 16px;

cursor: pointer;
}

#search button:hover {

background-color: #c0392b;
}

#results {

padding: 50px 0;
}

.restaurant {

background-color: #fff;

padding: 20px;

margin-bottom: 20px;

border-radius: 5px;
}

.restaurant h3 {

margin-bottom: 10px;
}

.restaurant p {

margin-bottom: 5px;
}

footer {

background-color: #333;
```

```

color: #fff;

padding: 20px 0;

text-align: center;
}

footer p {

font-size: 14px;
}

```

Output:

