**Lab#9 Using PHP Regex,**

**a. Implementing an application to fetch weather details using Weather APIs.**

|  |  |  |
| --- | --- | --- |
| **PROPERTY USED** | **ATTRIBUTES USED** | **DESCRIPTION** |
| <?php | -- | a server side scripting language that is embedded in HTML |
| Isset() | -- | Check for variable is initialised or not |
| Json\_decode() | -- | Deflate Json data from api’s |
| File\_get\_contents() | -- | Fetch content from file |
| errno() | -- | Returns the error number or 0 (zero) if no error occurred |
| <HTML> | lang="en" | Write the description of HTML tags and attributes |
| <HEAD> | - | Contains meta-information about the document, such as title and CSS scripts. |
| <TITLE> | - | Defines the title of the document that appears in the browser's title bar. |
| <LINK> | rel, href | Links external resources, like CSS stylesheets, to the HTML document. |
| <BODY> | - | Contains the visible content of the document. |
| <NAV> | - | Defines a container for navigation links. |
| <DIV> | class | A generic container element for styling and layout purposes. |
| <A> | class, href | Creates hyperlinks and defines the URL they link to. |

**Code Snippet:**

**request.php**

<?php

$ApiKey='ab2455c9941d579937cd7504e03449b6';

$city='Rajkot';

$URL="https://api.openweathermap.org/data/2.5/weather?q=".$city."&appid=".$ApiKey;

$json\_data=file\_get\_contents($URL);

$res\_data=json\_decode($json\_data);

$tempInKelvin=$res\_data->main->temp;

$tempInCelcius=ceil($tempInKelvin-273.15);

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Document</title>

<link rel="stylesheet" href="style.css">

<script src="index.js" defer></script>

</head>

<body>

<div class="card">

<input id="cityData" placeholder="Enter City Name" type="text">

<button id="btn\_search" >Search</button>

<div class="container">

<div class="cloud front">

<span class="left-front"></span>

<span class="right-front"></span>

</div>

<span class="sun sunshine"></span>

<span class="sun"></span>

<div class="cloud back">

<span class="left-back"></span>

<span class="right-back"></span>

</div>

</div>

<div class="card-header">

<span id="city\_name" >Messadine, Susah</span>

<span >Feels Like <span id="feels-like" ></span> </span>

</div>

<span class="temp"><?php echo $tempInCelcius; ?></span>

<div class="temp-scale">

<span>Celcius</span>

</div>

</div>

<script>

let city=document.getElementById("cityData").value;

</script>

</body>

</html>

<?php

$tempInCelcius=null;

if(isset($\_POST['submit']))

{

$ApiKey='ab2455c9941d579937cd7504e03449b6';

$city=$\_POST['citydata'];

$URL="https://api.openweathermap.org/data/2.5/weather?q=".$city."&appid=".$ApiKey;

$json\_data=file\_get\_contents($URL);

$res\_data=json\_decode($json\_data);

$tempInKelvin=$res\_data->main->temp;

$tempInCelcius=ceil($tempInKelvin-273.15);

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Document</title>

<link rel="stylesheet" href="style.css">

<!-- <script src="index.js" defer></script> -->

</head>

<body>

<div class="card">

<form action="" method="post">

<input id="cityData" name="citydata" placeholder="Enter City Name" type="text"/>

<input type="submit" name="submit" id="btn\_search" />

</form>

<div class="container">

<div class="cloud front">

<span class="left-front"></span>

<span class="right-front"></span>

</div>

<span class="sun sunshine"></span>

<span class="sun"></span>

<div class="cloud back">

<span class="left-back"></span>

<span class="right-back"></span>

</div>

</div>

<div class="card-header">

<span id="city\_name" ><?php if(isset($\_POST['citydata'])) echo $\_POST['citydata']; else echo ""; ?></span>

<span >Feels Like <span id="feels-like" ></span> </span>

</div>

<span class="temp"><?php echo $tempInCelcius; ?></span>

<div class="temp-scale">

<span>Celcius</span>

</div>

</div>

</body>

</html>

Style.css

@import url('https://fonts.googleapis.com/css2?family=Poppins:wght@300&display=swap');

\*{

font-family: 'Poppins', sans-serif;

padding: 0;

margin: 0;

box-sizing: border-box;

}

body{

min-height: 100vh;

width: 100vw;

display: grid;

justify-content: center;

align-items: center;

}

.card {

width: 350px;

height: 300px;

position: relative;

padding: 25px;

background: radial-gradient(178.94% 106.41% at 26.42% 106.41%, #FFF7B1 0%, rgba(255, 255, 255, 0) 71.88%) /\* warning: gradient uses a rotation that is not supported by CSS and may not behave as expected \*/, #FFFFFF;

box-shadow: 0px 155px 62px rgba(0, 0, 0, 0.01), 0px 87px 52px rgba(0, 0, 0, 0.05), 0px 39px 39px rgba(0, 0, 0, 0.09), 0px 10px 21px rgba(0, 0, 0, 0.1), 0px 0px 0px rgba(0, 0, 0, 0.1);

border-radius: 23px;

transition: all 0.8s cubic-bezier(0.15, 0.83, 0.66, 1);

cursor: pointer;

}

input{

position: absolute;

display: inline-block;

padding: 5px;

font-size: 1em;

left: 30%;

transform: translateX(-30%);

border-radius: 10px;

outline: none;

}

button{

position: absolute;

right: 30px;

padding: 5px;

font-size: 1em;

border-radius: 10px;

background-color: #91ff00;

color: #fff;

outline: none;

font-weight: 600;

cursor: pointer;

}

.card:hover {

transform: scale(1.05);

}

.container {

margin-top: 60px;

width: 250px;

height: 250px;

position: absolute;

right: -35px;

top: -50px;

display: flex;

align-items: center;

justify-content: center;

transform: scale(0.7);

}

.cloud {

width: 250px;

}

.front {

padding-top: 45px;

margin-left: 25px;

display: inline;

position: absolute;

z-index: 11;

animation: clouds 8s infinite;

animation-timing-function: ease-in-out;

}

.back {

margin-top: -30px;

margin-left: 150px;

z-index: 12;

animation: clouds 12s infinite;

animation-timing-function: ease-in-out;

}

.right-front {

width: 45px;

height: 45px;

border-radius: 50% 50% 50% 0%;

background-color: #4c9beb;

display: inline-block;

margin-left: -25px;

z-index: 5;

}

#btn\_search{

margin-top: 50px;

margin-left: -47px;

position: relative;

padding: 10px;

background: radial-gradient(178.94% 106.41% at 26.42% 106.41%, #FFF7B1 0%, rgba(255, 255, 255, 0) 71.88%) /\* warning: gradient uses a rotation that is not supported by CSS and may not behave as expected \*/, #FFFFFF;

box-shadow: 0px 155px 62px rgba(0, 0, 0, 0.01), 0px 87px 52px rgba(0, 0, 0, 0.05), 0px 39px 39px rgba(0, 0, 0, 0.09), 0px 10px 21px rgba(0, 0, 0, 0.1), 0px 0px 0px rgba(0, 0, 0, 0.1);

border-radius: 10px;

transition: all 0.8s cubic-bezier(0.15, 0.83, 0.66, 1);

cursor: pointer;

}

.temp{

margin-bottom: 70px;

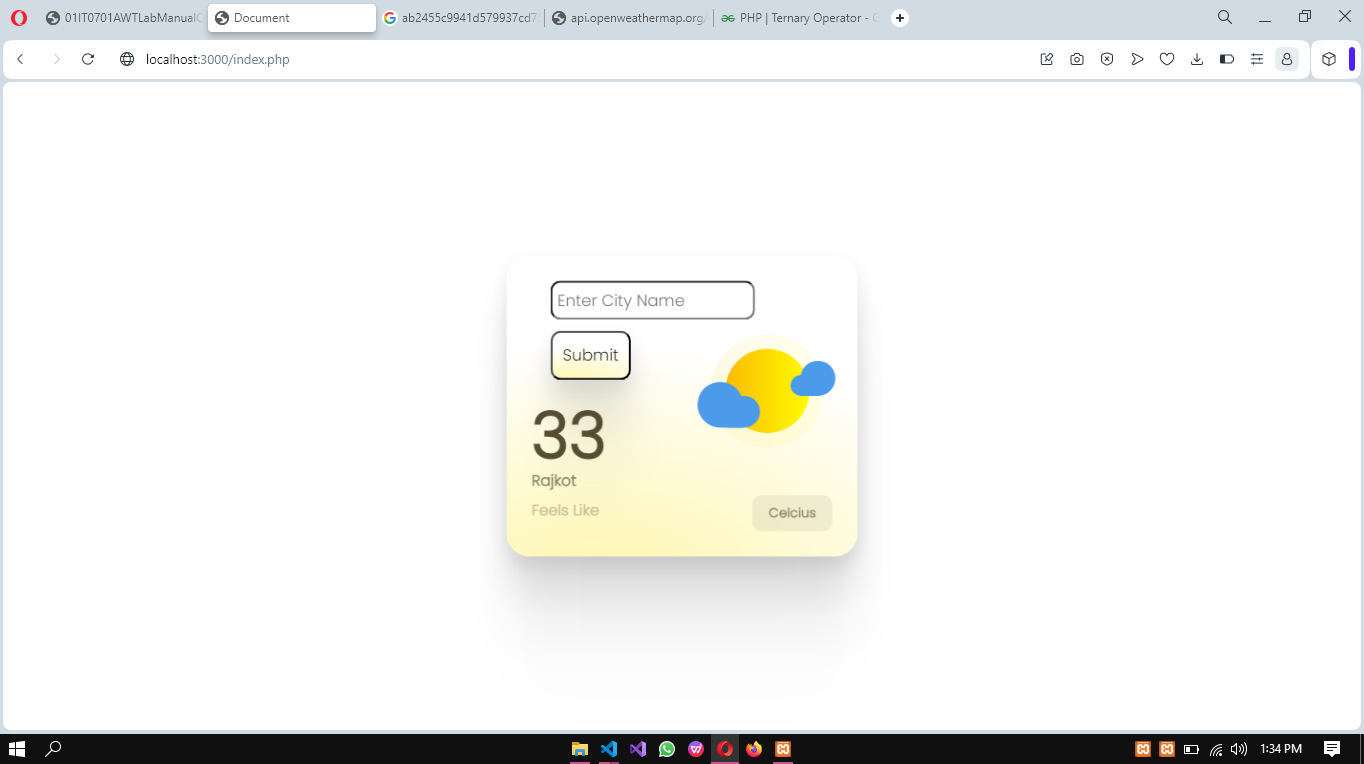
}

#btn\_search:hover{

background-color: rgb(149, 255, 0);

}

**Final Outcome:**



**b.Implementing an application to fetch cricket/stock details using relevant APIs**

**Code snippet:**

<?php

$alphaVantageApiKey = 'YOUR\_ALPHAVANTAGE\_KEY';

$symbol = 'AAPL'; // Replace with the stock symbol you want to fetch

// Fetch stock details

$stockApiUrl = "https://www.alphavantage.co/query?function=TIME\_SERIES\_INTRADAY&symbol=$symbol&interval=5min&apikey=$alphaVantageApiKey";

$stockData = file\_get\_contents($stockApiUrl);

// Process stock data

$stockDataArray = json\_decode($stockData, true);

$latestData = $stockDataArray['Time Series (5min)'];

// Create an array of data for the table

$tableData = [];

foreach ($latestData as $timestamp => $data) {

$tableData[] = [

'Timestamp' => $timestamp,

'Open Price' => $data['1. open'],

'High Price' => $data['2. high'],

'Low Price' => $data['3. low'],

'Close Price' => $data['4. close'],

'Volume' => $data['5. volume'],

];

}

?>

<!DOCTYPE html>

<html>

<head>

<title>Stock Details</title>

<style>

table {

border-collapse: collapse;

width: 80%;

margin: 20px auto;

}

th, td {

border: 1px solid #ddd;

padding: 8px;

text-align: left;

}

th {

background-color: #f2f2f2;

}

</style>

</head>

<body>

<h1>Stock Details for <?php echo $symbol; ?></h1>

<table>

<tr>

<th>Timestamp</th>

<th>Open Price</th>

<th>High Price</th>

<th>Low Price</th>

<th>Close Price</th>

<th>Volume</th>

</tr>

<?php foreach ($tableData as $row): ?>

<tr>

<td><?php echo $row['Timestamp']; ?></td>

<td><?php echo $row['Open Price']; ?></td>

<td><?php echo $row['High Price']; ?></td>

<td><?php echo $row['Low Price']; ?></td>

<td><?php echo $row['Close Price']; ?></td>

<td><?php echo $row['Volume']; ?></td>

</tr>

<?php endforeach; ?>

</table>

</body>

</html>

