

Lab #9(a)

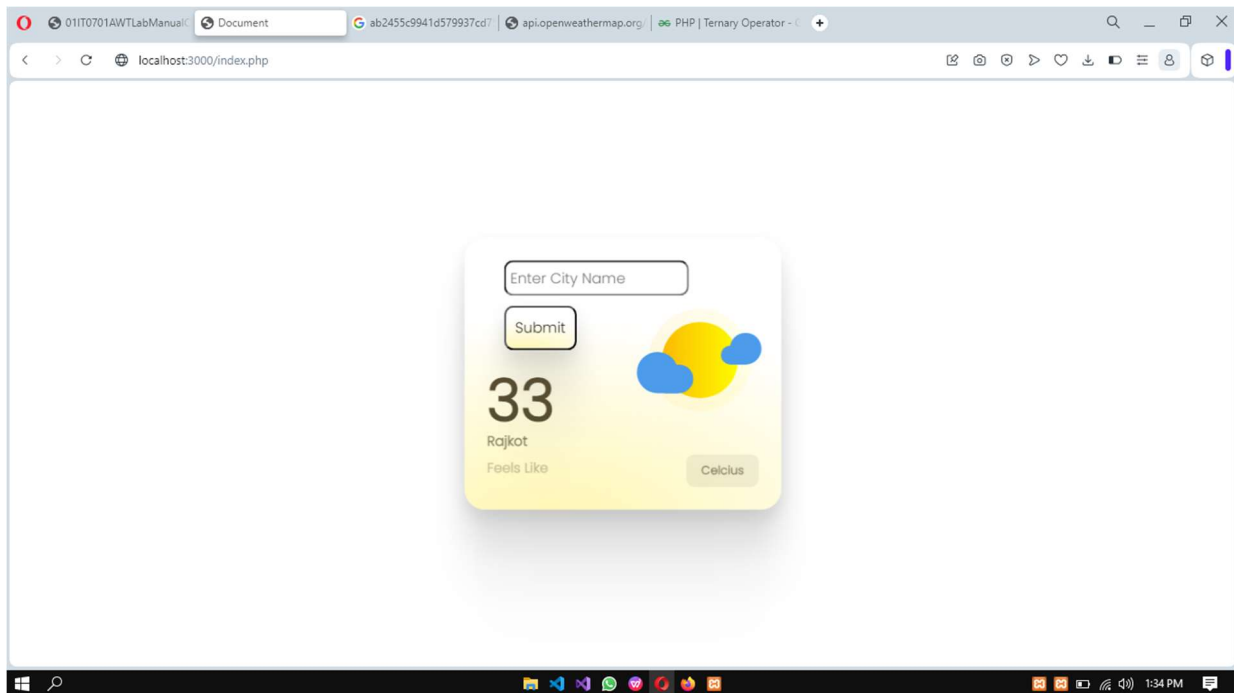
Lab#9 Using PHP Regex,

a. Implementing an application to fetch weather details using Weather

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.

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Final Outcome:



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">
```



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```
<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>
```



Lab #9(a)

```
<?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>
```

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```
<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>
```

Lab #9(a)

```
</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);  
}
```

Lab #9(a)

```
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);
```

Lab #9(a)

```
}  
.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;
```

Lab #9(a)

```
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{
```



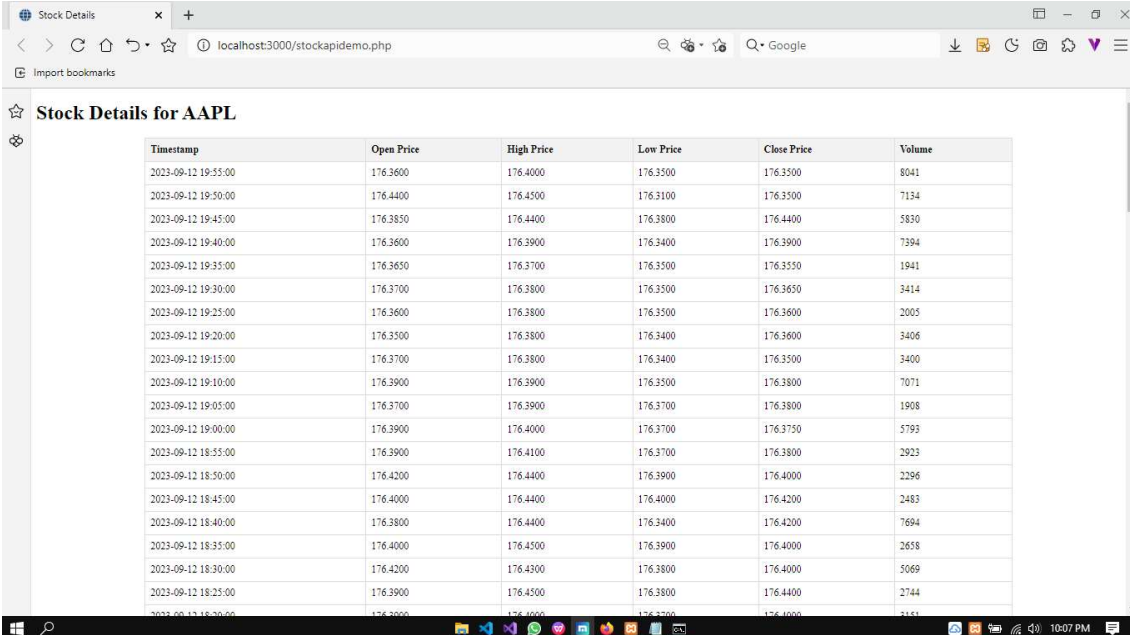
Lab #9(a)

```
margin-bottom: 70px;
}
#btn_search:hover{
    background-color: rgb(149, 255, 0);
}
```

Lab#9 Using PHP Regex,

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

Final Outcome:



The screenshot shows a web browser window with the title 'Stock Details' and the address bar displaying 'localhost:3000/stockapidemo.php'. The page content is titled 'Stock Details for AAPL' and displays a table with the following columns: Timestamp, Open Price, High Price, Low Price, Close Price, and Volume. The table contains 20 rows of data representing intraday stock prices for AAPL on 2023-09-12.

Timestamp	Open Price	High Price	Low Price	Close Price	Volume
2023-09-12 19:35:00	176.3600	176.4000	176.3500	176.3500	8041
2023-09-12 19:50:00	176.4400	176.4500	176.3100	176.3500	7134
2023-09-12 19:45:00	176.3850	176.4400	176.3800	176.4400	5830
2023-09-12 19:40:00	176.3600	176.3900	176.3400	176.3900	7394
2023-09-12 19:35:00	176.3650	176.3700	176.3500	176.3550	1941
2023-09-12 19:30:00	176.3700	176.3800	176.3500	176.3650	3414
2023-09-12 19:25:00	176.3600	176.3800	176.3500	176.3600	2005
2023-09-12 19:20:00	176.3500	176.3800	176.3400	176.3600	3406
2023-09-12 19:15:00	176.3700	176.3800	176.3400	176.3500	3400
2023-09-12 19:10:00	176.3900	176.3900	176.3500	176.3800	7071
2023-09-12 19:05:00	176.3700	176.3900	176.3700	176.3800	1908
2023-09-12 19:00:00	176.3900	176.4000	176.3700	176.3750	5793
2023-09-12 18:55:00	176.3900	176.4100	176.3700	176.3800	2923
2023-09-12 18:50:00	176.4200	176.4400	176.3900	176.4000	2296
2023-09-12 18:45:00	176.4000	176.4400	176.4000	176.4200	2483
2023-09-12 18:40:00	176.3800	176.4400	176.3400	176.4200	7694
2023-09-12 18:35:00	176.4000	176.4500	176.3900	176.4000	2658
2023-09-12 18:30:00	176.4200	176.4300	176.3800	176.4000	5069
2023-09-12 18:25:00	176.3900	176.4500	176.3800	176.4400	2744
2023-09-12 18:20:00	176.3900	176.4000	176.3500	176.4000	2153

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,
```

Lab #9(b)

```
'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>
```



Lab #9(b)

```
<td><?php echo $row['Close Price']; ?></td>
<td><?php echo $row['Volume']; ?></td>
</tr>
<?php endforeach; ?>
</table>
</body>
</html>
```