

Lab #9(b)

Lab#9(b) Implementing an application to fetch cricket/stock details using relevant APIs

Stock:

Code Section	Description
<code>if (isset(\$_GET['symbol'])) { ... }</code>	This conditional block checks if the 'symbol' parameter is set in the URL's query string. If it's set, it proceeds to fetch stock data for the provided symbol using the Alpha Vantage API.
<code>\$apiKey</code>	Stores the API key required to access the Alpha Vantage API.
<code>\$alphaVantageUrl</code>	Constructs the URL for the Alpha Vantage API request, including the symbol and API key.
<code>curl_init()</code>	Initializes a new cURL session for making HTTP requests.
<code>curl_setopt()</code>	Configures various options for the cURL request, such as setting the URL, following redirects, disabling SSL verification, and more.
<code>curl_exec()</code>	Executes the cURL request and retrieves the response from the Alpha Vantage API.
<code>curl_close()</code>	Closes the cURL session.
<code>\$data = json_decode(\$response, true);</code>	Decodes the JSON response from the Alpha Vantage API into an associative array. The stock data will be accessible using this array.
<code>if (isset(\$_GET['symbol_submit'])) { ... }</code>	Checks if the 'symbol_submit' parameter is set in the URL's query string, indicating that the form was submitted. If set, it displays stock information or an error message based on the retrieved data.

Cricket:

Code Section	Description
\$matchList = array();	Declares an array to store match data retrieved from the API.
\$apikey	Stores the API key required to access the CricAPI service.
file_get_contents()	Fetches JSON data from the specified URL, which contains current match information.
\$json_result	Stores the fetched JSON data containing information about current matches.
json_decode()	Decodes the JSON data into a PHP object, allowing access to its properties.

Final Outcome:

Stock:

STOCK INFORMATION

Stock Symbol:

eurusd Stock Information

Open: 1.0635

High: 1.0635

Low: 1.0634

Close: 1.0635

Volume: 0

Cricket:

Malaysia Women vs Hong Kong Women, 2nd T20I

Status: Malaysia Women won by 27 runs

Venue: Selangor Turf Club, Kuala Lumpur

Date: 2023-09-13

Date Time GMT: 2023-09-13T07:00:00

United States Women vs Canada Women, 12th Match

Status: United States Women won by 30 runs

Venue: Woodley Cricket Field, Van Nuys, Los Angeles

Date: 2023-09-12

Date Time GMT: 2023-09-12T21:00:00

Vanuatu Women vs Japan Women, 1st T20I

Status: Match starts at Aug 28, 02:30 GMT

Venue: Independence Park, Port Vila

Date: 2023-08-28

Date Time GMT: 2023-08-28T02:30:00

Code Snippet:

Stock:

```
<!DOCTYPE html>

<html>

<head>

  <title>Stock API</title>

</head>
```



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```
<body>

  <?php

    if (isset($_GET['symbol'])) {

      $apiKey = "SE7FX20YBUZ2DYEF";

      $symbol = $_GET['symbol'];

      $alphaVantageUrl =
"https://www.alphavantage.co/query?function=TIME_SERIES_INTRADAY&symbol={$sy
mbol}&interval=5min&apikey={$apiKey}";

      $ch = curl_init();

      curl_setopt($ch, CURLOPT_HEADER, 0);

      curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);

      curl_setopt($ch, CURLOPT_URL, $alphaVantageUrl);

      curl_setopt($ch, CURLOPT_FOLLOWLOCATION, 1);

      curl_setopt($ch, CURLOPT_VERBOSE, 0);

      curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, false);

      $response = curl_exec($ch);

      curl_close($ch);

      $data = json_decode($response, true);

    }

  ?>

  <div style="text-align: center;">

    <h1>STOCK INFORMATION</h1>

    <form method="GET" action="<?php echo
htmlspecialchars($_SERVER['PHP_SELF']); ?>">

      Stock Symbol: <input type="text" name="symbol">

      <input type="submit" name="symbol_submit">

    </form>

    <?php

      if (isset($_GET['symbol_submit'])) {
```



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        if (isset($data['Time Series (5min)'])) {
            $latestData = current($data['Time Series (5min)']);
            echo "<h2>{$symbol} Stock Information</h2>";
            echo "<p>Open: {$latestData['1. open']}</p>";
            echo "<p>High: {$latestData['2. high']}</p>";
            echo "<p>Low: {$latestData['3. low']}</p>";
            echo "<p>Close: {$latestData['4. close']}</p>";
            echo "<p>Volume: {$latestData['5. volume']}</p>";
        } else {
            echo "<h2>No data available for symbol {$symbol}</h2>";
        }
    }
    ?>
</div>
</body>

</html>

```

Cricket:

```

<?php
    $matchList = array();
    $apikey = "6449d623-90da-4227-9756-56d7734f43be";
    $json_result = file_get_contents('https://api.cricapi.com/v1/currentMatches?apikey=' . $apikey .
    '&offset=0');
    $series_search_data = json_decode($json_result);

    if ($series_search_data->status != "success") {
        die("FAILED TO GET A SUCCESS RESULT");
    }

```

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}

if (!empty($series_search_data)) {
    $matchList[] = $series_search_data->data;
}

if (!empty($matchList)) {
    foreach ($matchList as $list) {
        foreach ($list as $listdata) {
            echo '<div class="match">';
            echo '<h3>' . $listdata->name . '</h3>';
            echo '<p><strong>Status:</strong> ' . $listdata->status . '</p>';
            echo '<p><strong>Venue:</strong> ' . $listdata->venue . '</p>';
            echo '<p><strong>Date:</strong> ' . $listdata->date . '</p>';
            echo '<p><strong>Date Time GMT:</strong> ' . $listdata->dateTimeGMT . '</p>';
            echo '</div>';
        }
    }
} else {
    echo "<p>Data Not Found</p>";
}
?>
```