# WAPH-Web Application Programming and Hacking

Instructor name: Dr.Phu Phung

Student info:

Name: Charan Sai Venaganti Email: venagaci@mail.uc.edu



Figure 1: Charan's headshot

#### Repository information

Repository's URL: [https://github.com/venagaci/waph-venagaci]

### Lab 2 - Front-end Web Development

#### Task 1: Basic HTML with forms, and JavaScript

a. HTML (5 pts) I developed a simple HTML file named waph-venagaci.html with basic tags, an image of my headshot and form.

Here is code included:

```
<h1>Web Application Programming and Hacking</h1>
                      <h2>Front-end Web Development Lab</h2>
                      <h3>Instructor: Dr. Phu Phung</h3>
           </div>
           <div id="menubar">
                      <h3>Student: Charan Sai</h3>
                      <img src="/images/headshot.jpg" alt="My headshot" width="50">
                      <div id="digital-clock"></div>
           </div>
           <div id="main">
                      A simple HTML page 
                     Using the <a href="https://www.w3schools.com/html">W3Schools template</a>
                      <hr>
                      <br/>b>Interactions with forms</b>
                      <div>
                                <i>Form with an HTTP GET Request</i>
                                <form action="/echo.php" method="GET">
                                           Your input:<input name="data">
                                           <input type="submit" value="submit">
                                </form>
                      </div>
                      <div>
                                <i>Form with an HTTP POST Request</i>
                                <form action="/echo.php" method="POST" name="echo_post">
                                           Your input: <input name="data" onkeypress="console.log('you have pressed a ke
                                           <input type="submit" value="submit">
                                </form>
                      </div>
           </div>
</body>
</html>
Caption: Screenshot with with basic tags, an image of your headshot, and a
form.
b. Simple JavaScript (15 pts)
       • Inline JavaScript code in HTML tags to display the current date/time
Here is the HTML code included;
<div>
           <b>Experiments with JavaScript code</b><br>
           <i>Inlined JavaScript</i>
           <div id="date" onclick="document.getElementById('date').innerHTML = Date()">Click here for the state of the state of
```

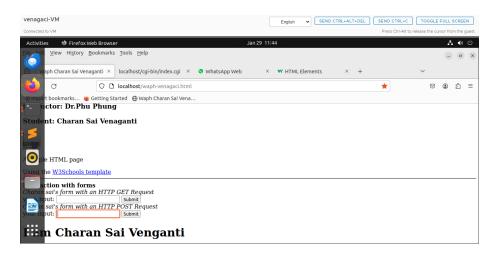
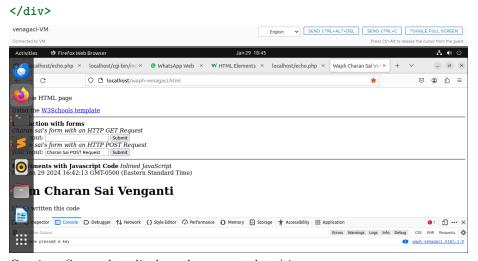


Figure 2: C

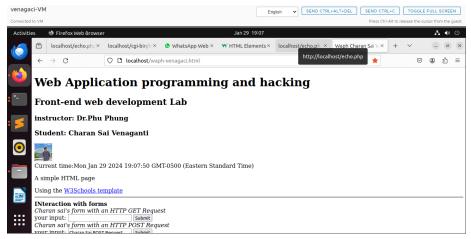


Caption: Screenshot displays the current date/time

• JavaScript code in a tag to display a digital clock

Here is the HTML code included;

```
<script type="text/javascript">
  function displayTime() {
    document.getElementById('digital-clock').innerHTML = "Current time: " + new Date();
  }
  setInterval(displayTime, 500);
</script>
```



Caption: Screenshot displays the digital clock

• JavaScript code in a JavaScript file and code in the HTML page to show/hide your email when clicked.

Here is the email. js code included;  $% \frac{1}{2} \left( \frac{1}{2} - \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} - \frac{1}{2} - \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} - \frac{1}{2}$ 

email.js:

```
var shown = false;
function showhideEmail() {
   if (shown) {
      document.getElementById('email').innerHTML = "show my email";
      shown = false;
   } else {
      var myemail = "<a href='mailto:venagaci" + "@" + "mail.uc.edu'>venagaci" + "@" +
```

Caption: Screenshot before clicking email

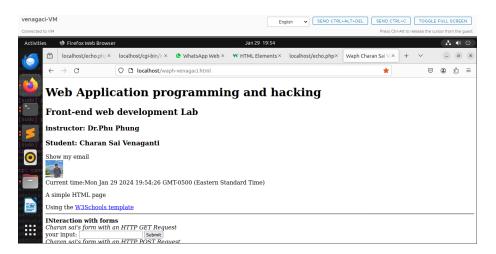


Figure 3: C



Caption: Screenshot after clicking email

• Display an analog clock using an external JavaScript code and code in your HTML page.

Here is the code included:

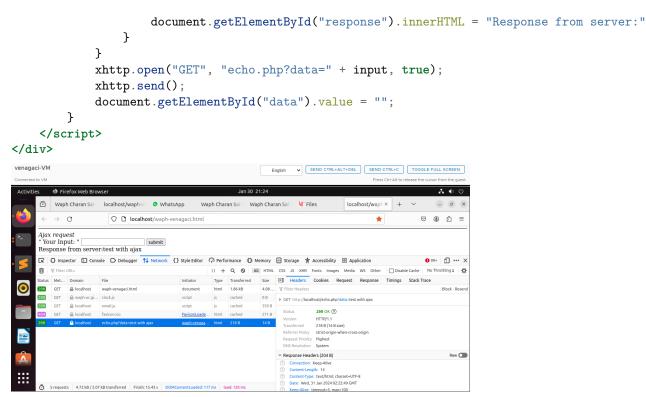
```
ctx.translate(radius, radius);
     radius = radius * 0.90;
     setInterval(drawClock, 1000);
     function drawClock() {
           drawFace(ctx, radius);
           drawNumbers(ctx, radius);
           drawTime(ctx, radius);
</script>
venagaci-VM
                                                       English 

SEND CTRL+ALT+DEL SEND CTRL+C TOGGLE FULL SCREEN
      ☐ Waph Charan S × localhost/cgi-bin/ ⑤ WhatsApp We W HTML Element localhost/echo.ph Waph Charan Sai 1 € Files
                    O localhost/waph-venagaci.html
     Web Application programming and hacking
     Front-end web development Lab
     instructor: Dr.Phu Phung
      Student: Charan Sai Venaganti
      Show my email
       urrent time:Mon Jan 29 2024 23:41:15 GMT-0500 (Eastern Standard Time)
```

Caption: Screenshot of clock output

#### Task 2: Ajax, CSS, jQuery, and Web API integration

a. Ajax (7.5 pts) Here is the code included:



Caption: Screenshot of Ajax testing

## **b.** CSS (7.5 pts) Inline, Internal , External Here is the html code included:

```
<!DOCTYPE html>
<html>
<head>
    <link rel="stylesheet" href="styles.css">
    <link rel="stylesheet" href="https://waph-uc.github.io/style1.css">
    <meta charset="utf-8">
    <style>
        .button {
            background-color: #4CAF50;
            border: none;
            color: white;
            padding: 5px;
            text-align: center;
            text-decoration: none;
            display: inline-block;
            font-size: 12px;
```

```
margin: 4px 2px;
               cursor: pointer;
          }
          .round {
              border-radius: 8px;
          #response {
              background-color: #ff9800;
     </style>
</head>
<body>
     <div id="top">
          <h1 style="color:blue";>Web Application Programming and Hacking</h1>
          <h2>Front-end Web Development Lab</h2>
          <h3>Instructor: Dr. Phu Phung</h3>
     </div>
</body>
</html>
venagaci-VM
                                              English 

SEND CTRL+ALT+DEL SEND CTRL+C TOGGLE FULL SCREEN
     localhost/waph × Waph Charan Sai W Files
                 O localhost/waph-venagaci.html
                                                                         Web Application Programming and Hacking
     Frot-end Web Development Lab
     Instructor: Dr. Phu Phung
     Student: Charan Sai
     Current time: Tue Jan 30 2024 23:29:17 GMT-0500 (Eastern Standard Time)
```

Caption: Screenshot of CSS

Caption: Screenshot of CSS

#### c. jQuery (5 pts) i. and ii.

Here is the code included for i. & ii.

<script src="https://code.jquery.com/jquery-3.7.1.min.js" integrity="sha256-/JqT3SQfawRcv/B</pre> <div>

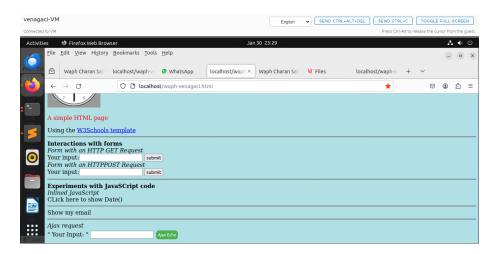
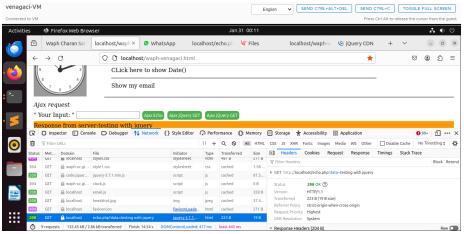


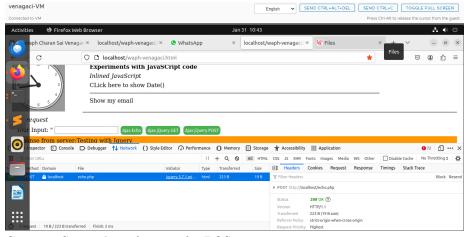
Figure 4: C

```
<i>Ajax request</i>
" Your Input: "
<input name="data" onkeypress="console.log('you have pressed a key')" id="data">
<input class="button round" type="button" value="Ajax Echo" onclick="getEcho()">
<input class="button round" type="button" value="Ajax jQuery GET" onclick="jQueryAjax()</pre>
<input class="button round" type="button" value="Ajax jQuery POST" onclick="jQueryAjaxPo</pre>
<script>
    function jQueryAjax() {
        var input = $("#data").val();
        if (input.length == 0) {
            return;
        $.get("echo.php?data=" + input,
            function(result) {
                $("#response").html("Response from server:" + result);
            });
        $("#data").val("");
    }
    function jQueryAjaxPost() {
        var input = $("#data").val();
        if (input.length == 0) return;
        $.post("echo.php", { data: input },
            function(result) {
                $("#response").html("Response from server:" + result);
        );
        $("#data").val("");
```





Caption: Screenshot of jquery for GET

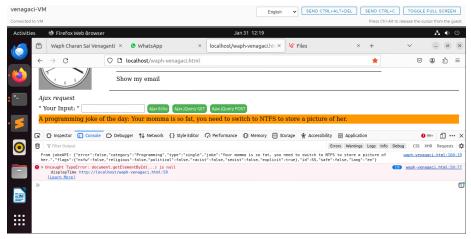


Caption: Screenshot of jquery for POST

#### d. Web API integration (10 pts) i.

Here is the Code included:

```
$.get("https://v2.jokeapi.dev/joke/Programming?type=single",
   function(result) {
      console.log("From jokeAPI: " + JSON.stringify(result));
      $("#response").html("A programming joke of the day: " + result.joke);
   });
```

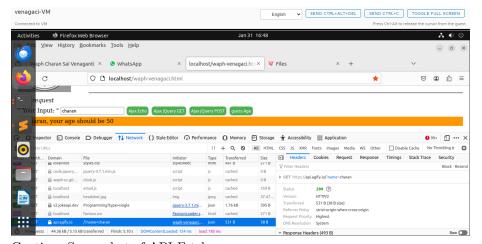


Caption: Screenshot of WebApi console

#### ii.

Here is the code included:

```
async function guessAge(name) {
   const response = await fetch("https://api.agify.io/?name=" + name);
   const result = await response.json();
   $("#response").html("Hi " + name + ", your age should be " + result.age);
}
```



Caption: Screenshot of API Fetch