WAPH - Web Application Programming and Hacking

Instructor: Dr. Phu Phung

Student

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Headshot :

Repository information for Lab-1

Repository URL : https://github.com/gummadvy-uc/vamshi-reddy-gummadi/tree/main/labs/lab2

Overview: This lab covers front end development, html, js,ajax and intgration of web apis. In the Part 1, i have developed the webpage with basic html tags with forms and JS. AlSo, displayed the current date and time using analog clock. In the task 2, it covers the web api, jquery request and responses and CSS to design the webpage.

Task 1: Basic HTML with forms, and JavaScript

- I have used simple HTML tags such as
  etc.

<!DOCTYPE html>

WAPH- Vamshi Reddy Gummadi

```
<div id="top">
    <h1>Web Application Programming and Hacking</h1>
```

```
    <h2>Front End Development Lab </h2>
    <h3>Instructor : Dr Phu Phung</h3>
</div>
<div>
    <div id="menubar">
        <h3>Student :Vamshi Reddy Gummadii</h3>
        <img src="Images/Headshot.jpeg" alt="Vamshi Headshot" width="50">
    </div>
    <div id="main">
        <p>A Simple HTML Page</p>
        Using the <a href="https://www.w3schools.com/html">W3 Schools Template</a>
        <hr>
        <b>Interaction with forms</b>
    <div>
        <i> Form with an HTTP GET request</i>
        <form action="/echo.php" method="GET">
            Your Input: <input name="input">
        <input type="submit" value="Submit">
    </form>
</div>
<div>
    <i> Form with an HTTP POST request</i>
    <form action="/echo.php" method="GET" name="echo_post">
        Your Input: <input name="input" onkeypress="console.log('You pressed a key')<input t
    </form>
</div>
```

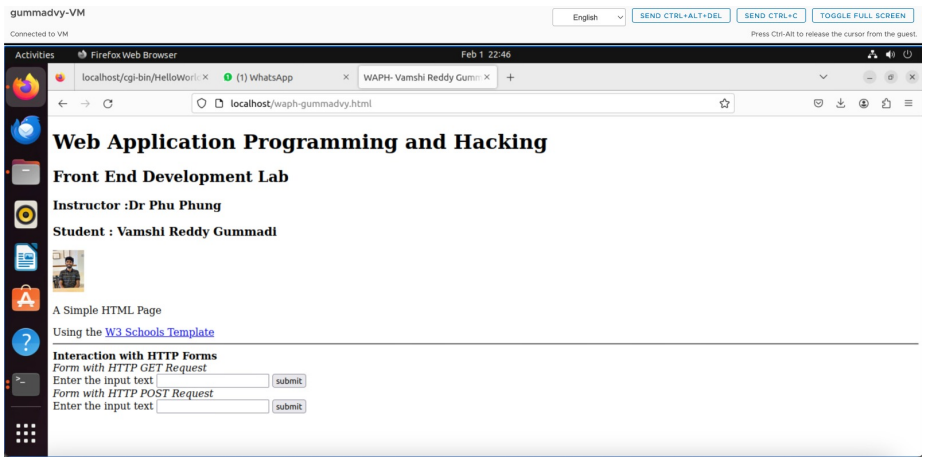


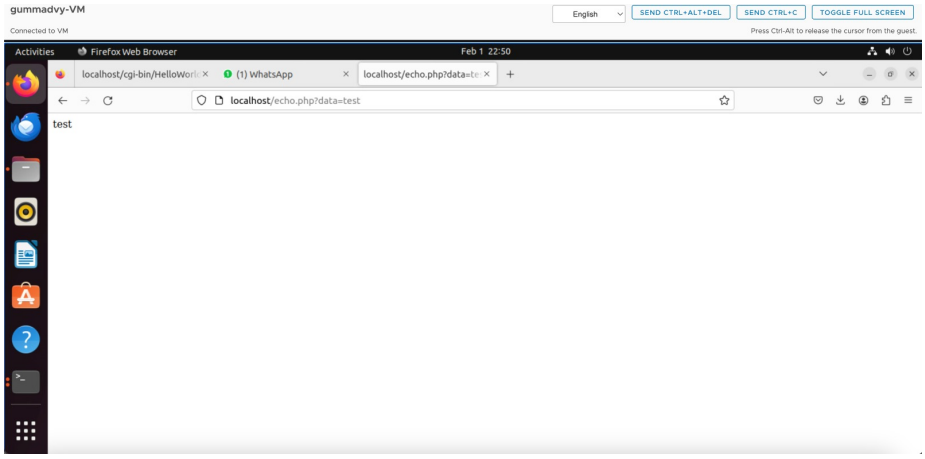
Figure 1: Screenshot1

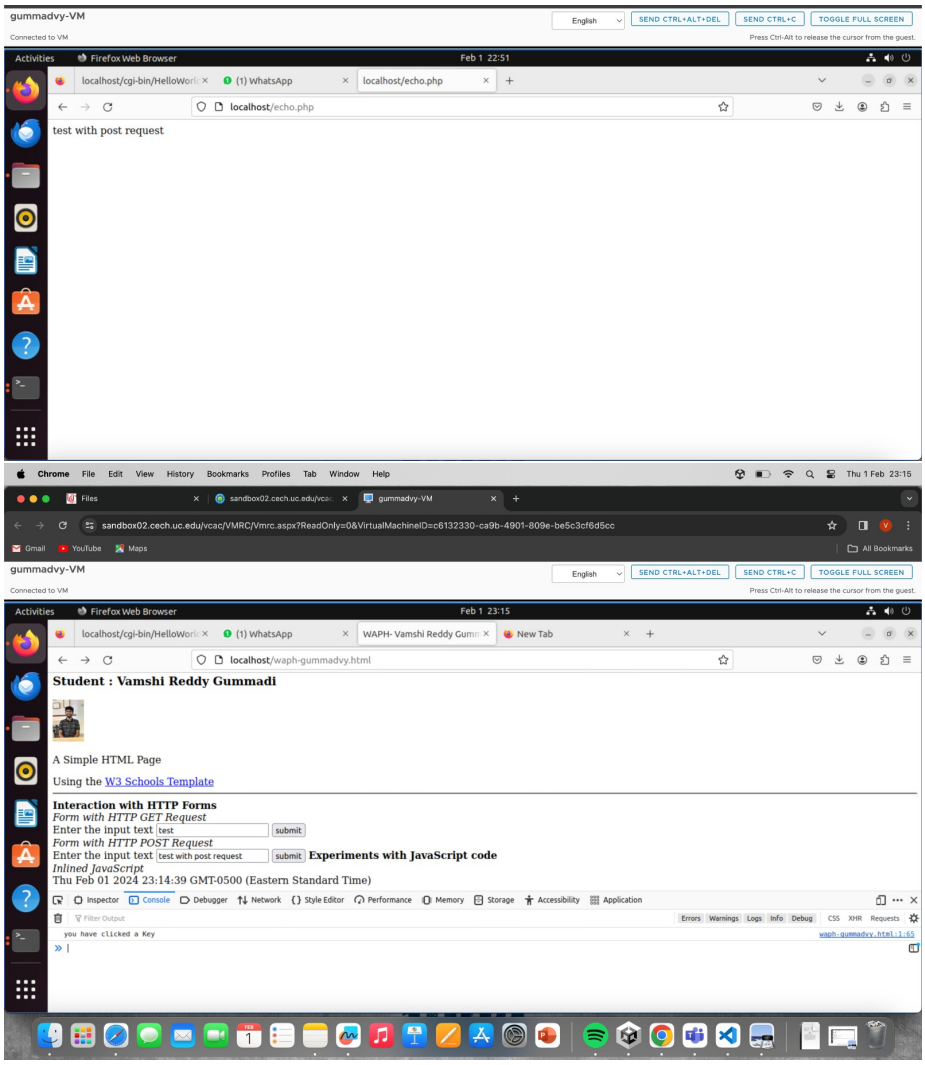
- Simple JavaScript

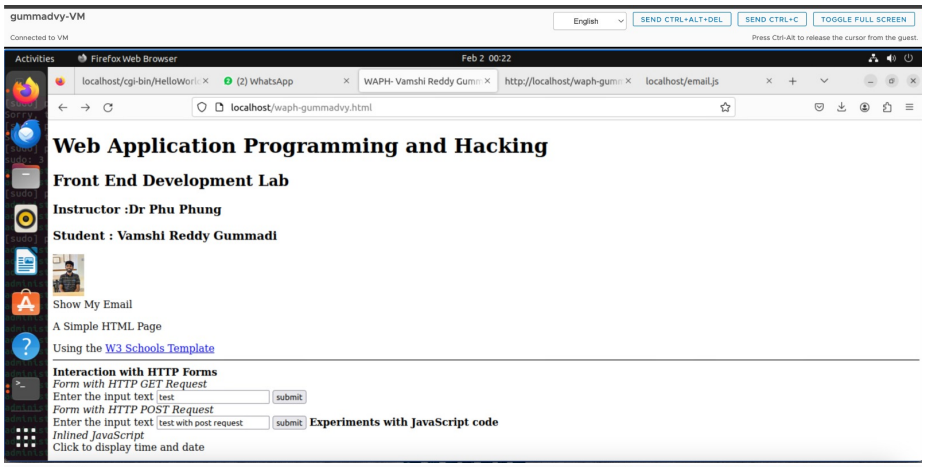
Used simple Javascript in the html webpage , used clock event to display the current date and time and also displayed the analog clock. Also I wrote JavaScript code in a separate file and linked it to the HTML to enable show/hide functionality.

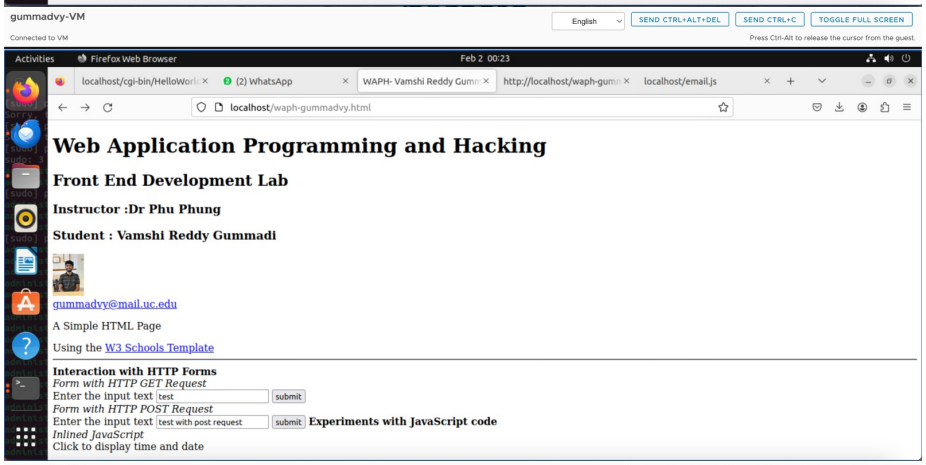
Interaction with HTTP Forms

```
        <i>Form with HTTP GET Request</i>
        <form action="/echo.php" method="GET">
            <lable for="data">Enter the input text</lable>
            <input type="text" name="data" onkeyup="console.log('you have cl
            <input type="submit" value="submit">
        </form>
    </div>
    <div>
        <i>Form with HTTP POST Request</i>
        <form action="/echo.php" method="POST">
            <lable for="data">Enter the input text</lable>
            <input type="text" name="data" onkeyup="console.log('you have cl
            <input type="submit" value="submit">
            <hr><br>
            <div>
```




gummadvy-VM
Connected to VM
English
SEND CTRL+ALT+DEL
SEND CTRL+C
TOGGLE FULL SCREEN
Press Ctrl-Alt to release the cursor from the guest.
Activities
Firefox Web Browser
Feb 1 22:51
localhost/cgi-bin/HelloWorl
(1) WhatsApp
localhost/echo.php
localhost/echo.php
test with post request
Chrome File Edit View History Bookmarks Profiles Tab Window Help
Thu 1 Feb 23:15
Files
sandbox02.cech.uc.edu/vcac
gummadvy-VM
sandbox02.cech.uc.edu/vcac/VMRC/Vmrc.aspx?ReadOnly=0&VirtualMachineID=c6132330-ca9b-4901-809e-be5c3cf6d5cc
Gmail
YouTube
Maps
All Bookmarks
gummadvy-VM
Connected to VM
English
SEND CTRL+ALT+DEL
SEND CTRL+C
TOGGLE FULL SCREEN
Press Ctrl-Alt to release the cursor from the guest.
Activities
Firefox Web Browser
Feb 1 23:15
localhost/cgi-bin/HelloWorl
(1) WhatsApp
WAPH- Vamshi Reddy Gumm
New Tab
localhost/waph-gummadvy.html
Student : Vamshi Reddy Gummadi
A Simple HTML Page
Using the W3 Schools Template
Interaction with HTTP Forms
Form with HTTP GET Request
Enter the input text test submit
Form with HTTP POST Request
Enter the input text test with post request submit Experiments with JavaScript code
Inlined JavaScript
Thu Feb 01 2024 23:14:39 GMT-0500 (Eastern Standard Time)
Inspector
Console
Debugger
Network
Style Editor
Performance
Memory
Storage
Accessibility
Application
Filter Output
Errors
Warnings
Logs
Info
Debug
CSS
XHR
Requests
you have clicked a Key
waph-gummadvy.html:1:65


gummadvy-VM
Activities
Firefox Web Browser
Feb 2 00:22
localhost/waph-gummadvy.html
Web Application Programming and Hacking
Front End Development Lab
Instructor :Dr Phu Phung
Student : Vamshi Reddy Gummadi
Show My Email
A Simple HTML Page
Using the W3 Schools Template
Interaction with HTTP Forms
Form with HTTP GET Request
Enter the input text test submit
Form with HTTP POST Request
Enter the input text test with post request submit
Experiments with JavaScript code
Inlined JavaScript
Click to display time and date


gummadvy-VM
Activities
Firefox Web Browser
Feb 2 00:23
localhost/waph-gummadvy.html
Web Application Programming and Hacking
Front End Development Lab
Instructor :Dr Phu Phung
Student : Vamshi Reddy Gummadi
gummadvy@mail.uc.edu
A Simple HTML Page
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Interaction with HTTP Forms
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Enter the input text test submit
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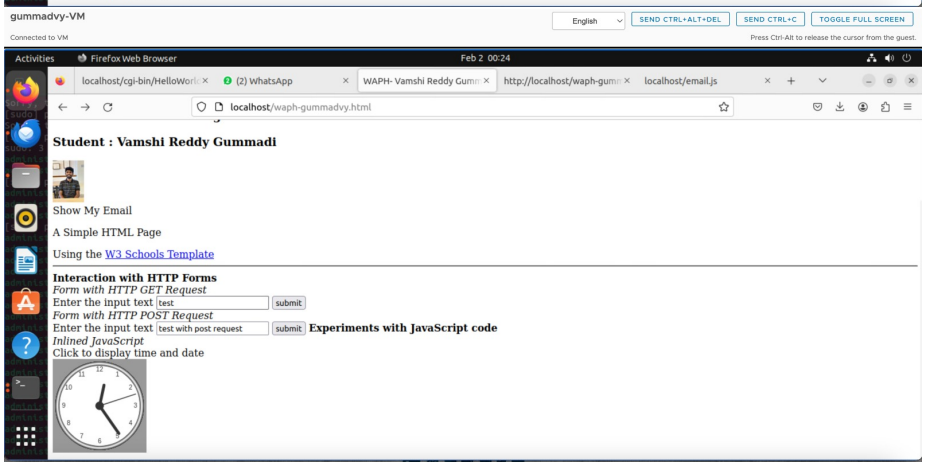
Experiments with JavaScript code
Inlined JavaScript
Click to display time and date


gummadvy-VM
Activities
Firefox Web Browser
Feb 2 00:24
localhost/waph-gummadvy.html
Student : Vamshi Reddy Gummadi
Show My Email
A Simple HTML Page
Using the W3 Schools Template
Interaction with HTTP Forms
Form with HTTP GET Request
Enter the input text test submit
Form with HTTP POST Request
Enter the input text test with post request submit
Experiments with JavaScript code
Inlined JavaScript
Click to display time and date

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

a. Ajax

Written HTML Code to make a GET call for echo.php using AJAX. Received the response.

Ajax:

AJAX Requests Enter the input text

```
</div>
<script type="text/javascript">
    function getEcho() {
        var input = document.getElementById("data").value;
        console.log(input);
        if (input.length == 0) {
            return;
        }
        var xhttp = new XMLHttpRequest();
        xhttp.onreadystatechange = function () {
            if (this.readyState == 4 && this.status == 200) {
                console.log("Received data= " + xhttp.responseTe
                document.getElementById("response").innerHTML =
            }
        }


        xhttp.open("GET", "echo.php?data=" + input, true);
        xhttp.send();
        document.getElementById("data").value = "";
    }
```

b. CSS

- Added CSS from the repository to the HTML page. Used Internal CSS and Inline CSS to make page look good.

c. jQuery

Added jQuery to the Library and jQueryget and jQuerypost has been to make GET and POST Calls and received the response.

```
input class="button round" type="submit" value="JQuery Ajax GET Echo"
                onclick="getJQueryAjax()">
<script>
    function getQueryAjax() {
        var input = $("#data").val();
        if (input.length == 0) return;
        $.get("echo.php?data=" + input,
```

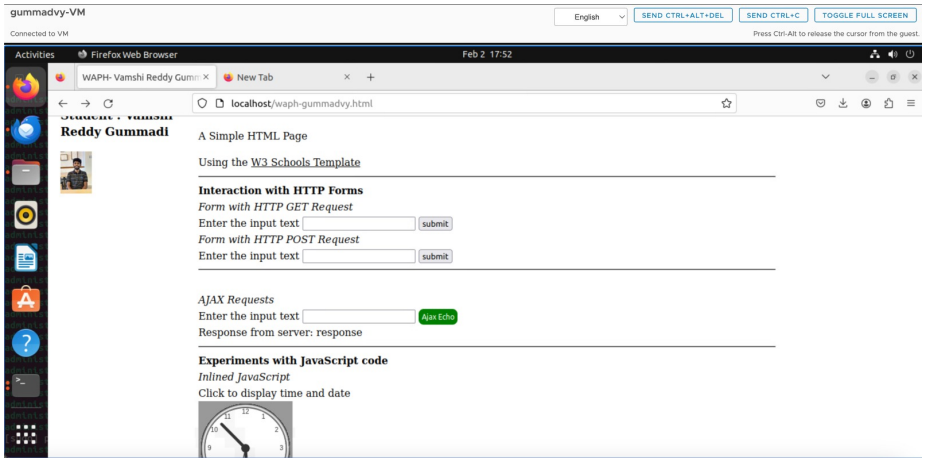


Figure 2: Screenshot8

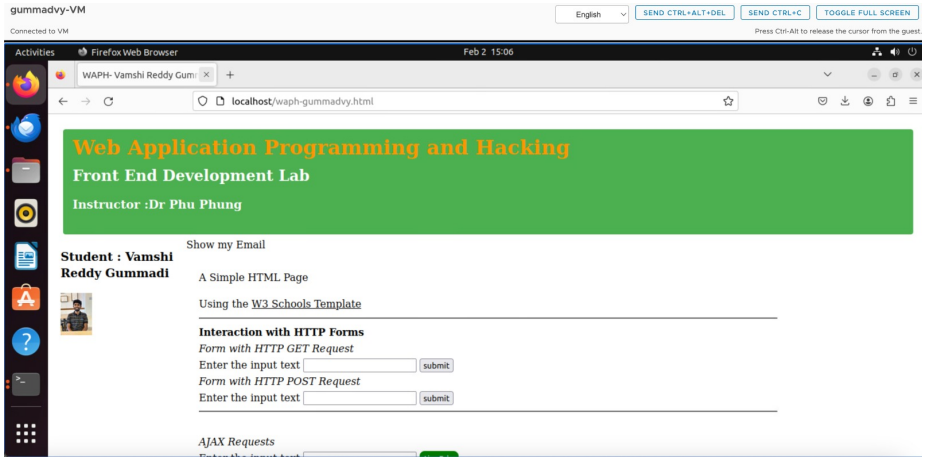
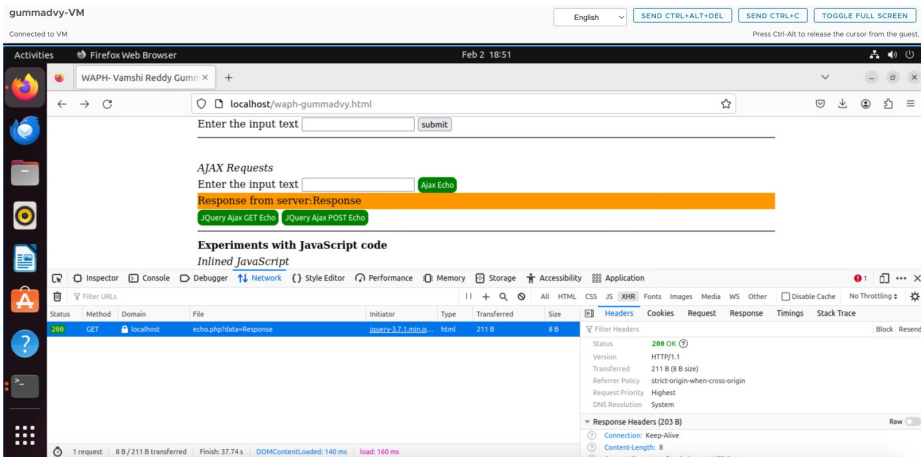
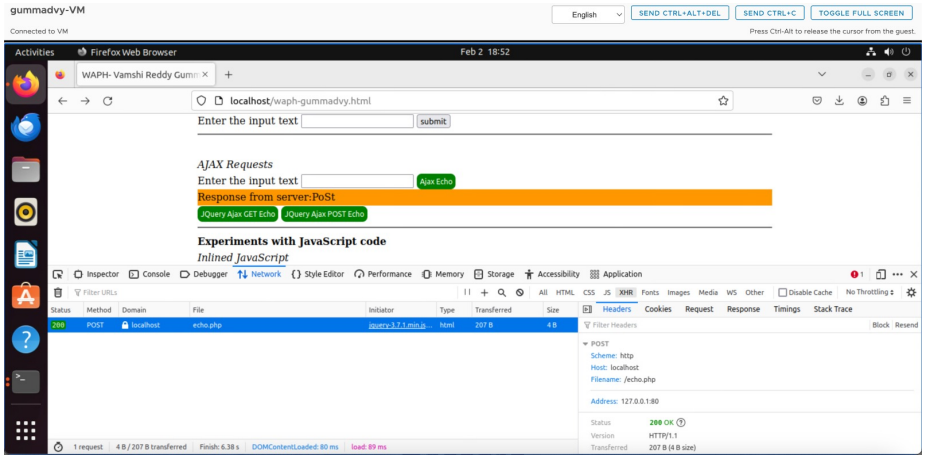


Figure 3: Screenshot9

```
                    function (result) {
                        $("#response").html("Response from server:" + re
                    }
                );
                $("#data").val("");
            }
        </script> <script src="https://code.jquery.com/jquery-3.7.1.min.
            integrity="sha256-/JqT3SQfawRcv/BIHPThkBvs0OEvtFFmqPF/lYI/Cx
            crossorigin="anonymous"></script>
        <script>
            $.get("https://v2.jokeapi.dev/joke/Programming?type=single",
                function (result) {
                    console.log("from joke API: " + JSON.stringify(resul
                    $("#response").html("Programming joke of the day: "
                });
        </script>
        <input class="button round" type="button" value="Guess Age"
    onclick="guessAge($('#data').val())">
```

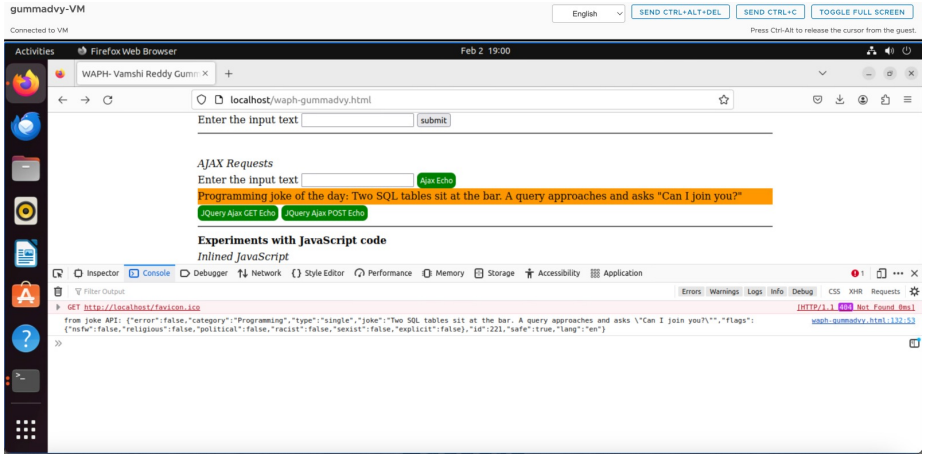


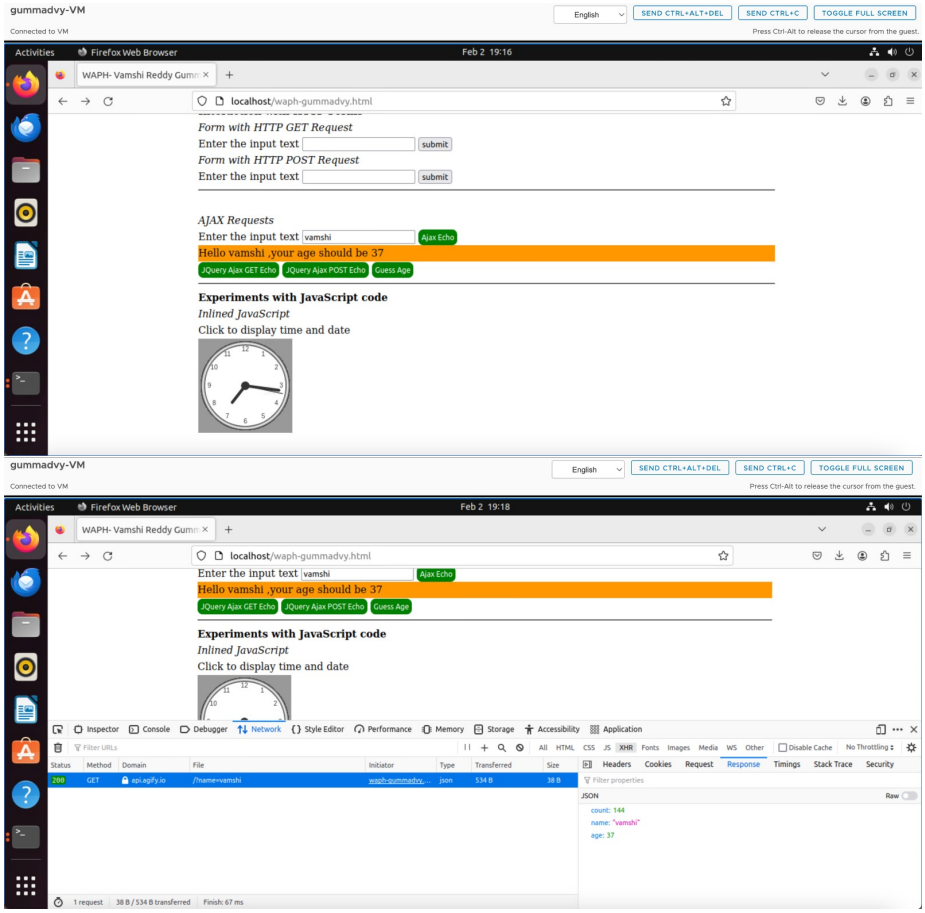


-

d. Web API integration

Made use of Ajax on https://v2.jokeapi.dev/joke/Programming?type=single to make a GET call and received the response from the webpage, Response was in JSON format. Also made use of API https://api.agify.io/?name=input to get random age for the give name.





Screenshot15