

WAPH-Web Application Programming and Hacking

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Figure 1: Grahika Rampudi

Lab 2 - Front End Web Developement

Overview: This Lab deals with Front End Development, which gives an overview about basic HTML, JavaScript, ajax, jQuery, CSS in Javascript and web API integration. In part 1 of this lab we design simple HTML and include javascript code in HTML tags, and also we include digital clock and analog clock. In part 2, Inline CSS, internal CSS, external CSS have been used to make AJAX get and post calls to echo.php. We use webservices to generate a random joke. and also we use this to guess age are integrated in HTML code. Pandoc is used generate pdf file.

<https://github.com/rampudga/waph-rampudga/edit/main/labs/lab2/README.md>.

Part 1 : Basic HTML with Forms, and JavaScript

Task 1. HTML

A basic HTML program is done here basic tags headers, images, forms etc.All these are done in file names as waph-rampudga.html

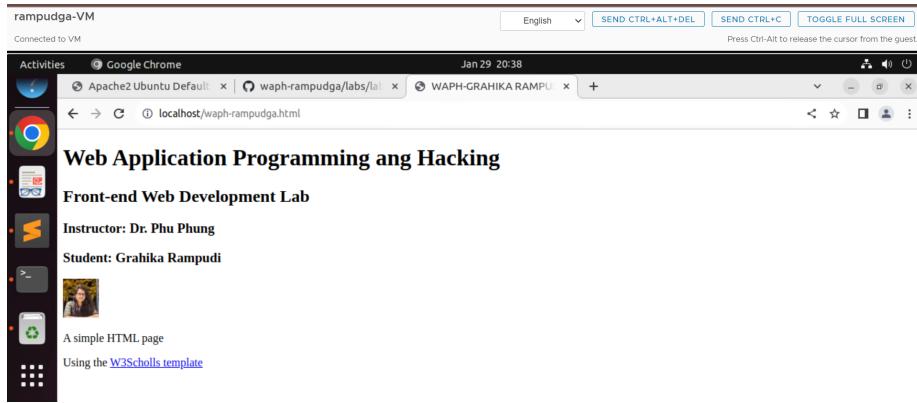


Figure 2: HTML Basic Page

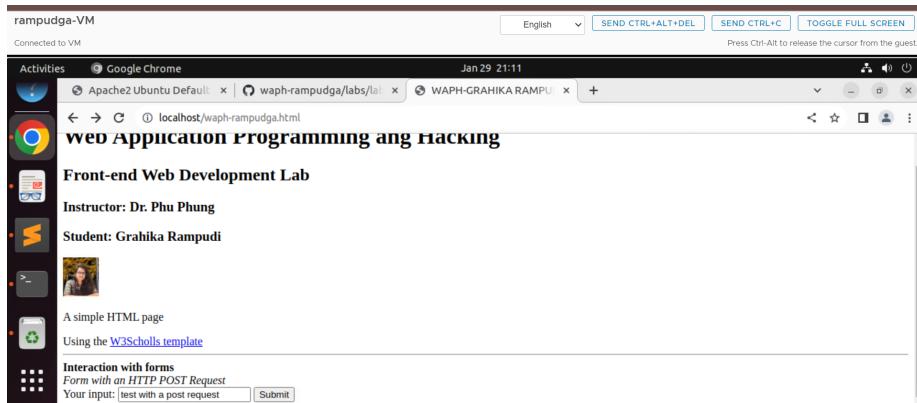


Figure 3: HTML Page with forms

Task 2. Simple JavaScript

-Here in this task we give a basic overview of JS syntax and ways to integrate JS code in HTML file.
-Inline JavaScript code is written to display current time when clicked.

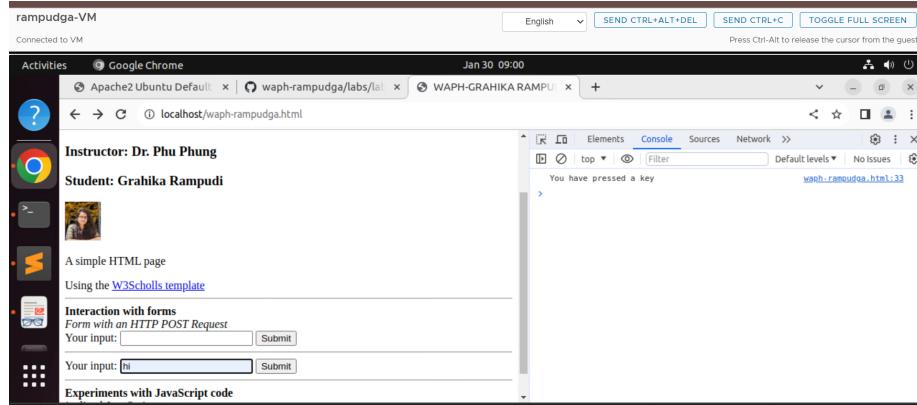


Figure 4: Log when clicked

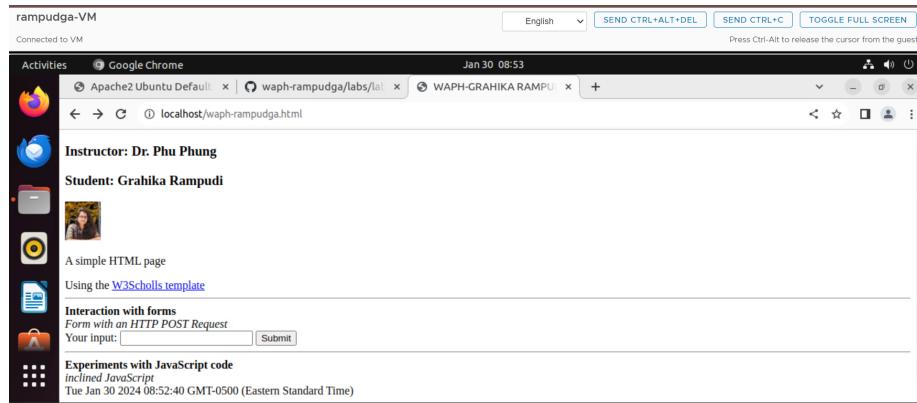


Figure 5: Shows date when clicked

-JS code to show email when clicked and also displays current time and updates every 1500ms as a digital clock -displaying analog clock with external javascript code in HTML code

Part II - Ajax, CSS, jQuery, Web API Integration

Task 1: Ajax

New button for ajax is added for that get call is made in echo.php using AJAX. The response is then displayed within the div. As we used get call the input was

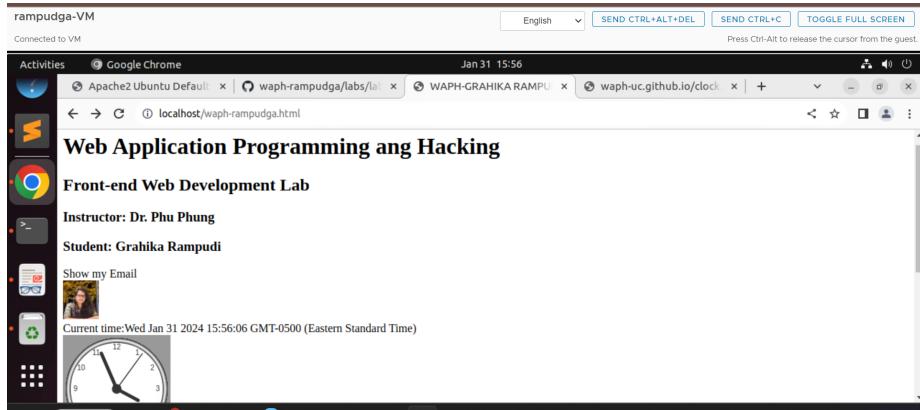


Figure 6: Digital clock and analog clock

sent as a path variable in the URL to the web server. The response of Ajax call is inspected in network tab which gets 200OK.

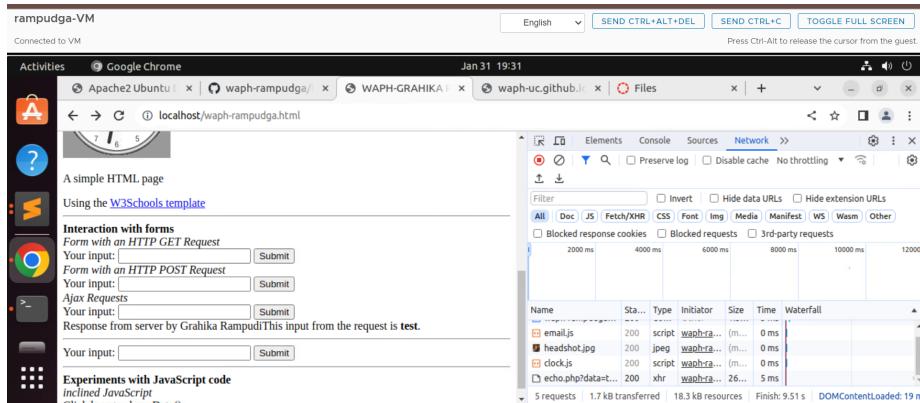


Figure 7: Ajax output

Task 2: CSS

- A. inline CSS code for background color and text color.
- B. Internal and external CSS code which changes the color and external css from the remote repository provided in the lecture <http://waph-uc.github.io/style.css>

Task 3: jQuery

- A.jQuery GET request to echo.php and the response inspect view. The call was GET and status code is 200OK.

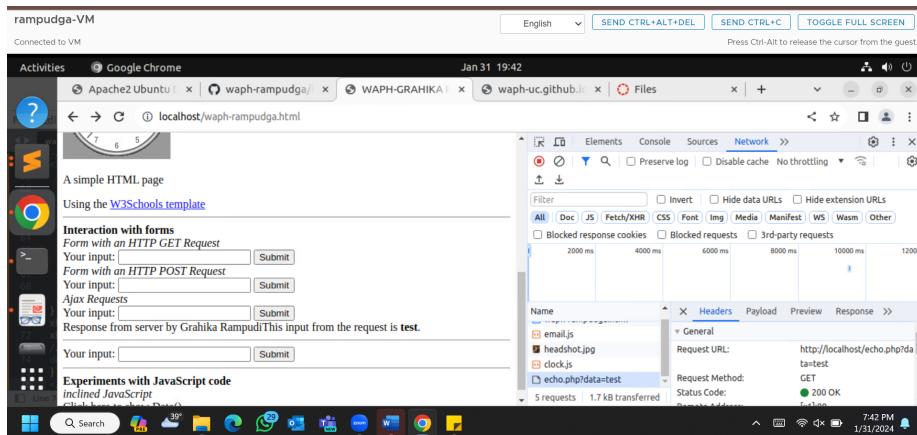


Figure 8: Http ajax response

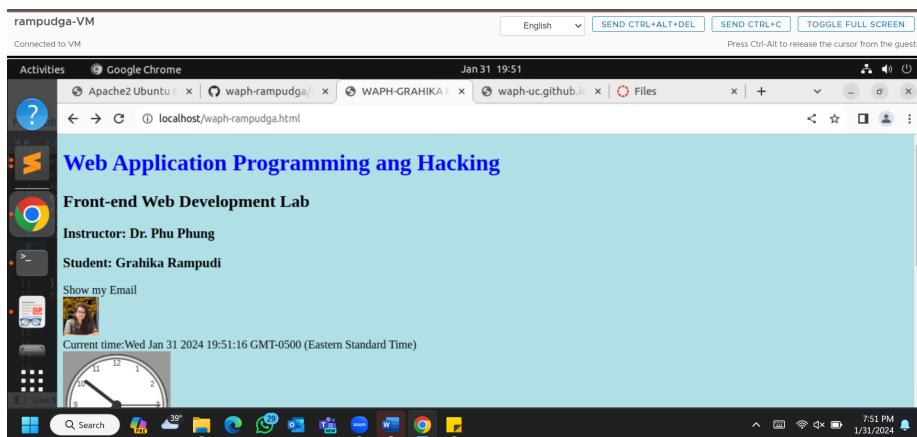


Figure 9: Inline CSS

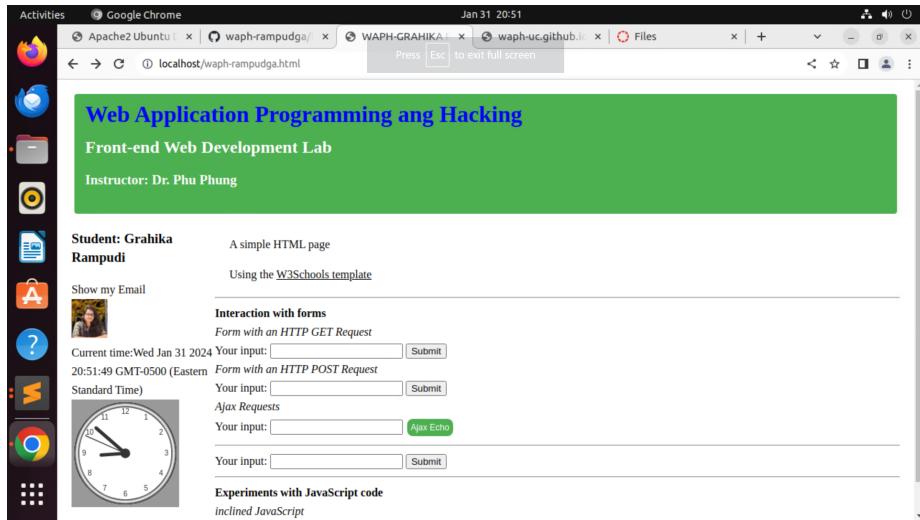


Figure 10: External and Internal CSS

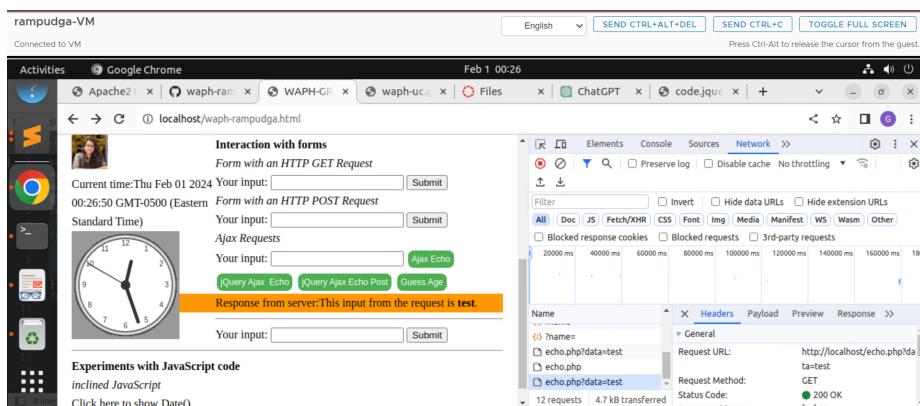


Figure 11: jQuery GET request and response

Ajax POST request to echo.php, the response is shown in inspect view. The call was POST and status code is 200OK

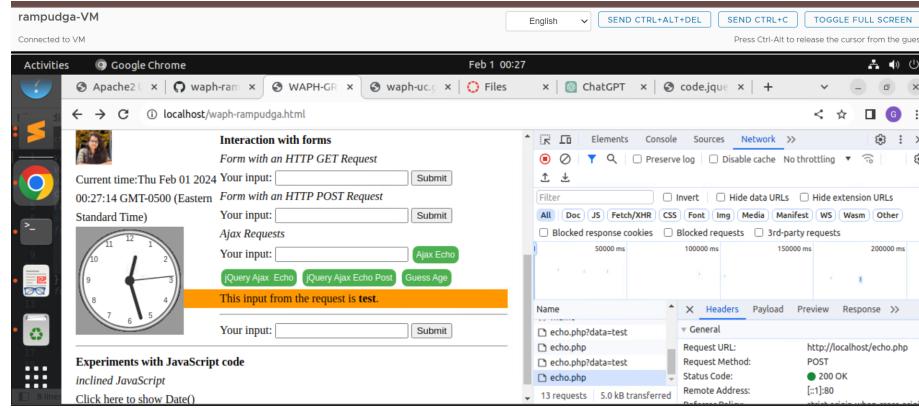


Figure 12: JQuery Ajax Post request

Task 3: WEB API Integration

A. Used Ajax on <https://v2.jokeapi.dev/joke/Programming?type=single> JavaScript code using JQuery written to call GET call. The response is in JSON format and got 200OK.

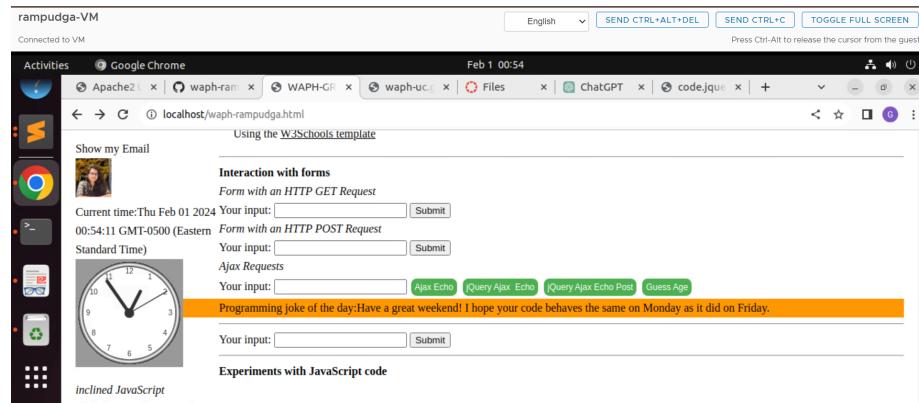


Figure 13: Output of the API integration

GET call response from API

B. Using the fetch API on <https://api.agify.io/?name=input> to fetch the javascript to make HTTP request to above webservice, The HTTP request made it GET call and it is 200OK.

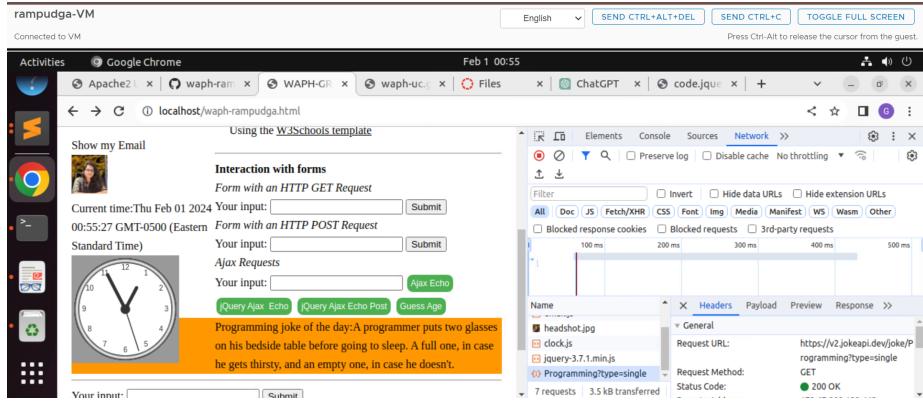


Figure 14: Get call for joke from API

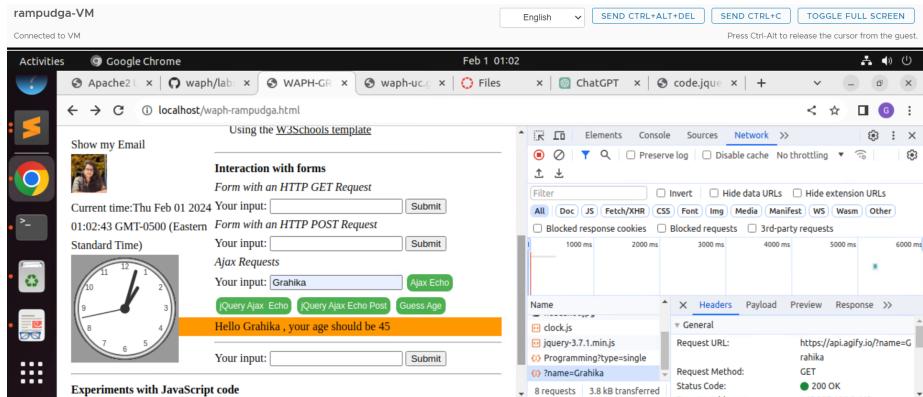


Figure 15: GET response from fetch

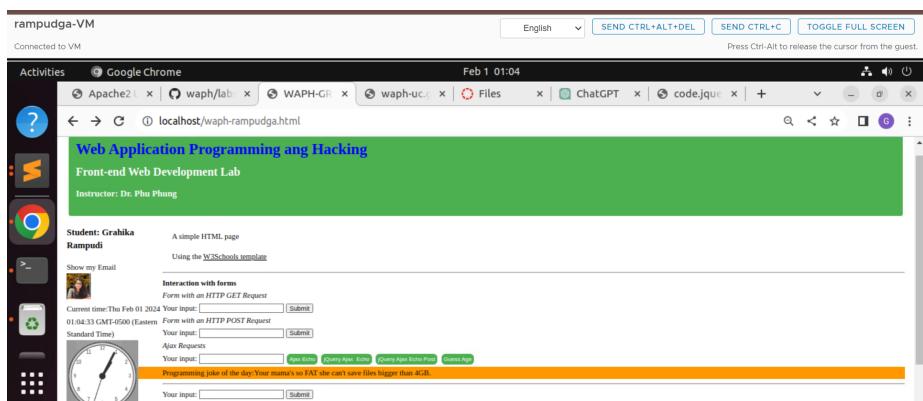


Figure 16: Final Web Page

Post this Labs/Lab2 folder was created to accomodate the project report and the changes were pushed. Pandoc tool was used to generate the project report from the README.md file