WAPH-Web Application Programming and Hacking

Instructor: Dr. Phu Phung

Individual Project 1

Front-end Web Development with a Professional Profile Website on github.io cloud service

Student

Name: Sai Keerthi Vadnala

Email: vadnalsi@ucmail.uc.edu

Short-bio: Sai Keerthi Vadnala has great interest in learning web development and wants to explore more about it by doing handson projects.

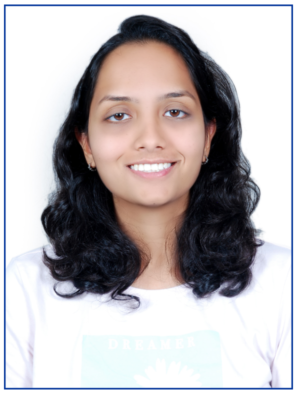


Figure 1: Sai Keerthi vadnala headshot

Overview and Requirements

- This project focuses on enhancing front-end web development skills through the creation and deployment of a Professional Profile Website on GitHub's cloud service, github.io.
- The project encompasses general, non-technical, and technical requirements.

Repository Information

Respository's URL: https://github.com/Saikeerthi72/

This is a private repository for Sai Keerthi Vadnala to store all code from the course.

Individual Project 1

- Individual Project 1: Front-end Web Development with a Professional Profile Website on github.io cloud service.

General requirements

- I have developed and deployed a personal website showcasing a professional profile, including essential details such as name, headshot, resume, contact information, educational background, experiences, and skills.
- Firstly, I have created a repo and added file named waph.hmtl which contains the course contents.
- Next, I have created another html page named index.html, here I have used bootstrap to create a responsive web page and I have created a div element named 'container-fluid'.
- I have created a side bar, which contains my headshot, email, birthday, location, resume, linkedin, github, waph course details.
- The resume link contains a 'href' tag and redirects to resume document.
- In the class 'main-content', I have created a navbar with different list items like: About, resume, projects, blog, contact details.
- In the About page, I have included what domains I'm interested, and I have created all these in a seperate section with class name 'service', within that I have created different lists for each domain.
- In Resume page, I have included education, experience and skills details. For this I have created a separate article class named "resume", within that I have created seperate lists for each section.
- Below is the screenshot of this task, (Fig. 2,3,4,5).

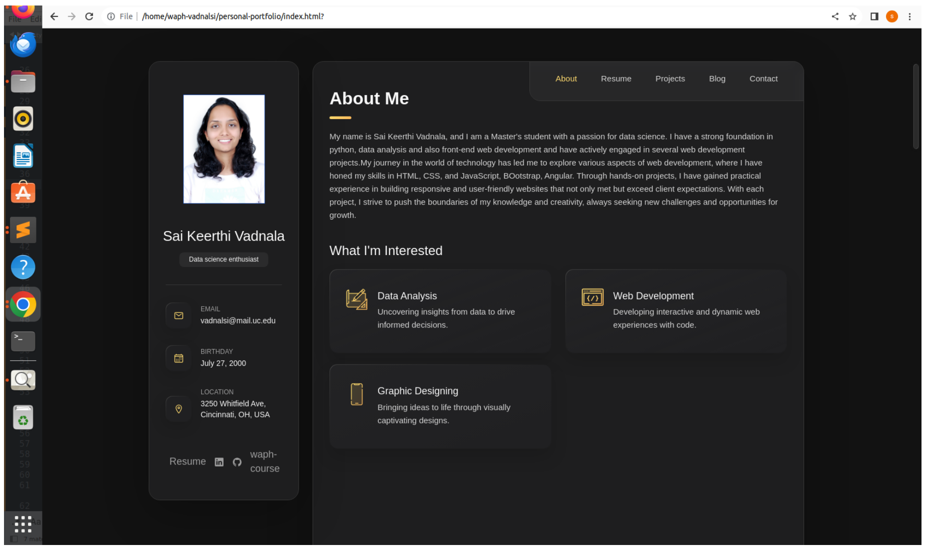
- I have created a link to a new dedicated HTML page named 'waph.html' to introduce the "Web Application Programming and Hacking" course contents, listed down the labs, hackathons and projects.
- To create the link I have used 'a href' tag.
- Below is the screenshot of this task, (Fig. 6,7).

Non-technical requirements (20 pts)

- I have used an open-source CSS framework Bootstrap.

- I followed the template idea presented by abhindu to develop my personal portfolio.
- Below is the screenshot (Fig. 8).

- Here we embed a flag counter into a webpage, which provides visual tracking of visitor counts (pageviews). The 'div' element acts as a container, enclosing the Flag Counter represented by the 'img' tag. The 'a' tag wraps



Sai Keerthi Vadnala

Data science enthusiast

EMAIL
vadnalsi@mail.uc.edu

BIRTHDAY
July 27, 2000

LOCATION
3250 Whitfield Ave, Cincinnati, OH, USA

Resume waph-course

About Me

My name is Sai Keerthi Vadnala, and I am a Master's student with a passion for data science. I have a strong foundation in python, data analysis and also front-end web development and have actively engaged in several web development projects.My journey in the world of technology has led me to explore various aspects of web development, where I have honed my skills in HTML, CSS, and JavaScript, BOotstrap, Angular. Through hands-on projects, I have gained practical experience in building responsive and user-friendly websites that not only met but exceed client expectations. With each project, I strive to push the boundaries of my knowledge and creativity, always seeking new challenges and opportunities for growth.

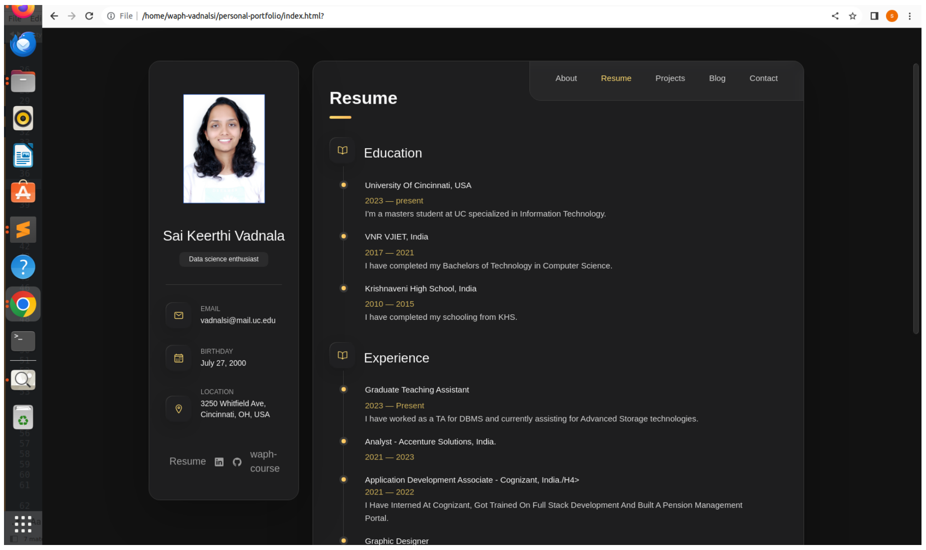
What I'm Interested

Data Analysis
Uncovering insights from data to drive informed decisions.

Web Development
Developing interactive and dynamic web experiences with code.

Graphic Designing
Bringing ideas to life through visually captivating designs.

Figure 2: Displays the web page



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Resume

Education

University Of Cincinnati, USA
2023 — present
I'm a masters student at UC specialized in Information Technology.

VNR VJIET, India
2017 — 2021
I have completed my Bachelors of Technology in Computer Science.

Krishnaveni High School, India
2010 — 2015
I have completed my schooling from KHS.

Experience

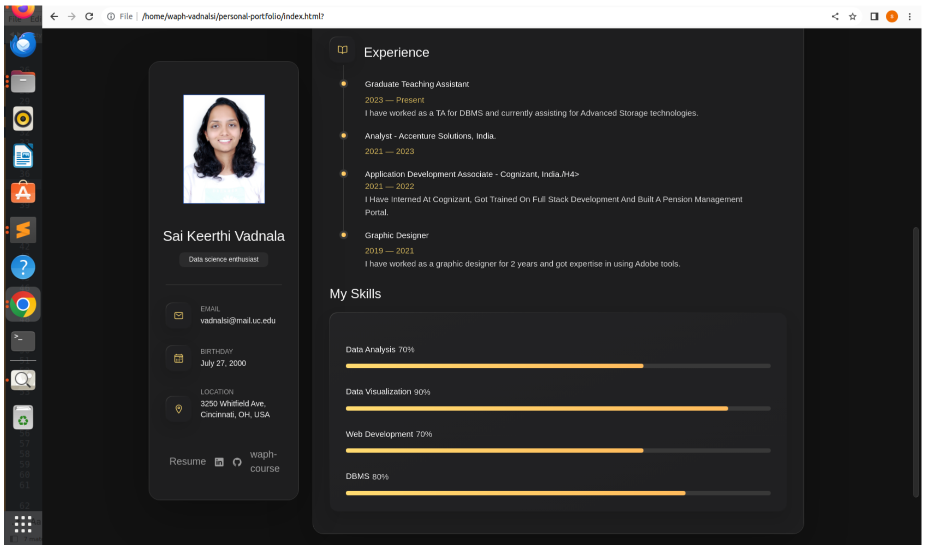
Graduate Teaching Assistant
2023 — Present
I have worked as a TA for DBMS and currently assisting for Advanced Storage technologies.

Analyst - Accenture Solutions, India.
2021 — 2023

Application Development Associate - Cognizant, India./H4>
2021 — 2022
I Have Interned At Cognizant, Got Trained On Full Stack Development And Built A Pension Management Portal.

Graphic Designer

Figure 3: Displays education, experiences page



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2021 — 2023

Application Development Associate - Cognizant, India./H4>
2021 — 2022
I Have Interned At Cognizant, Got Trained On Full Stack Development And Built A Pension Management Portal.

Graphic Designer
2019 — 2021
I have worked as a graphic designer for 2 years and got expertise in using Adobe tools.

My Skills

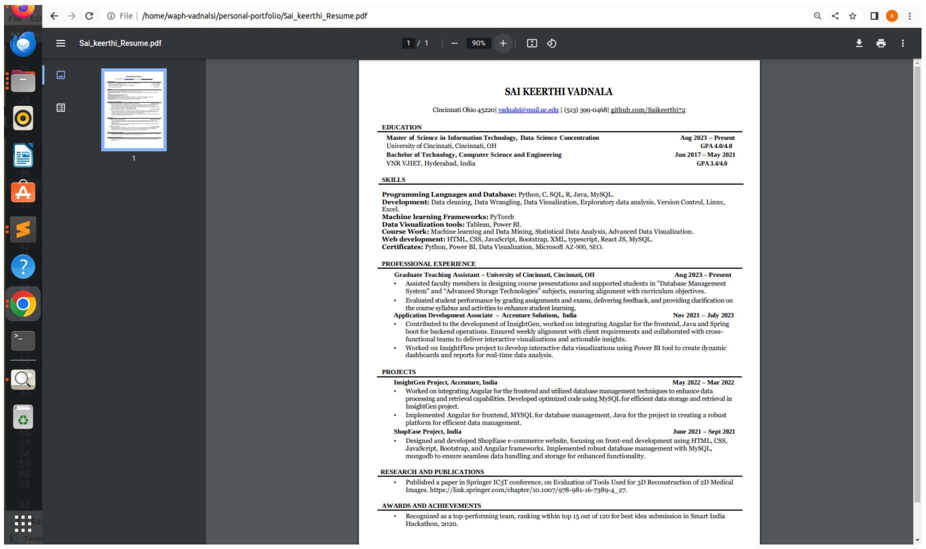
Data Analysis 70%

Data Visualization 90%

Web Development 70%

DBMS 80%

Figure 4: Displays skills page



File | /home/waph-vadnalsi/personal-portfolio/Sai_keerthi_Resume.pdf
Sai_keerthi_Resume.pdf
1 / 1
90%

SAI KEERTHI VADNALA

Cincinnati Ohio 45220| vadnalsi@mail.uc.edu | (513) 399-0468| github.com/Saikeerthi72

EDUCATION

Master of Science in Information Technology, Data Science Concentration **Aug 2023 – Present**
University of Cincinnati, Cincinnati, OH **GPA 4.0/4.0**
Bachelor of Technology, Computer Science and Engineering **Jun 2017 – May 2021**
VNR VJIET, Hyderabad, India **GPA 3.4/4.0**

SKILLS

Programming Languages and Database: Python, C, SQL, R, Java, MySQL.
Development: Data cleaning, Data Wrangling, Data Visualization, Exploratory data analysis, Version Control, Linux, Excel.
Machine learning Frameworks: PyTorch
Data Visualization tools: Tableau, Power BI.
Course Work: Machine learning and Data Mining, Statistical Data Analysis, Advanced Data Visualization.
Web development: HTML, CSS, JavaScript, Bootstrap, XML, typescript, React JS, MySQL.
Certificates: Python, Power BI, Data Visualization, Microsoft AZ-900, SEO.

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant – University of Cincinnati, Cincinnati, OH **Aug 2023 – Present**
- Assisted faculty members in designing course presentations and supported students in "Database Management System" and "Advanced Storage Technologies" subjects, ensuring alignment with curriculum objectives.
- Evaluated student performance by grading assignments and exams, delivering feedback, and providing clarification on the course syllabus and activities to enhance student learning.

Application Development Associate – Accenture Solutions, India **Nov 2021 – July 2023**
- Contributed to the development of InsightGen, worked on integrating Angular for the frontend, Java and Spring boot for backend operations. Ensured weekly alignment with client requirements and collaborated with cross-functional teams to deliver interactive visualizations and actionable insights.
- Worked on InsightFlow project to develop interactive data visualizations using Power BI tool to create dynamic dashboards and reports for real-time data analysis.

PROJECTS

InsightGen Project, Accenture, India **May 2022 – Mar 2022**
- Worked on integrating Angular for the frontend and utilized database management techniques to enhance data processing and retrieval capabilities. Developed optimized code using MySQL for efficient data storage and retrieval in InsightGen project.
- Implemented Angular for frontend, MYSQL for database management, Java for the project in creating a robust platform for efficient data management.

ShopEase Project, India **June 2021 – Sept 2021**
- Designed and developed ShopEase e-commerce website, focusing on front-end development using HTML, CSS, JavaScript, Bootstrap, and Angular frameworks. Implemented robust database management with MySQL, mongodb to ensure seamless data handling and storage for enhanced functionality.

RESEARCH AND PUBLICATIONS

- Published a paper in Springer IC3T conference, on Evaluation of Tools Used for 3D Reconstruction of 2D Medical Images. https://link.springer.com/chapter/10.1007/978-981-16-7389-4_27.

AWARDS AND ACHIEVEMENTS

- Recognized as a top-performing team, ranking within top 15 out of 120 for best idea submission in Smart India Hackathon, 2020.

Figure 5: Displays resume page

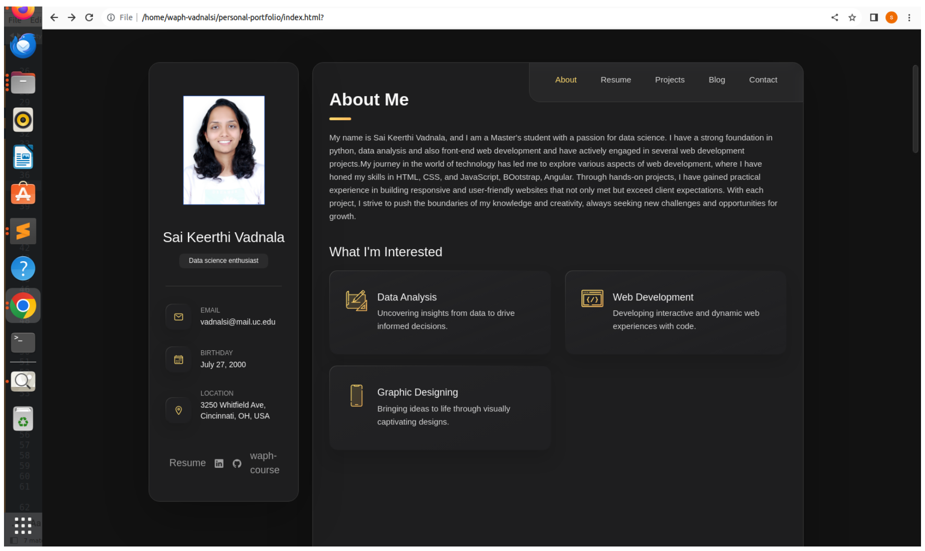


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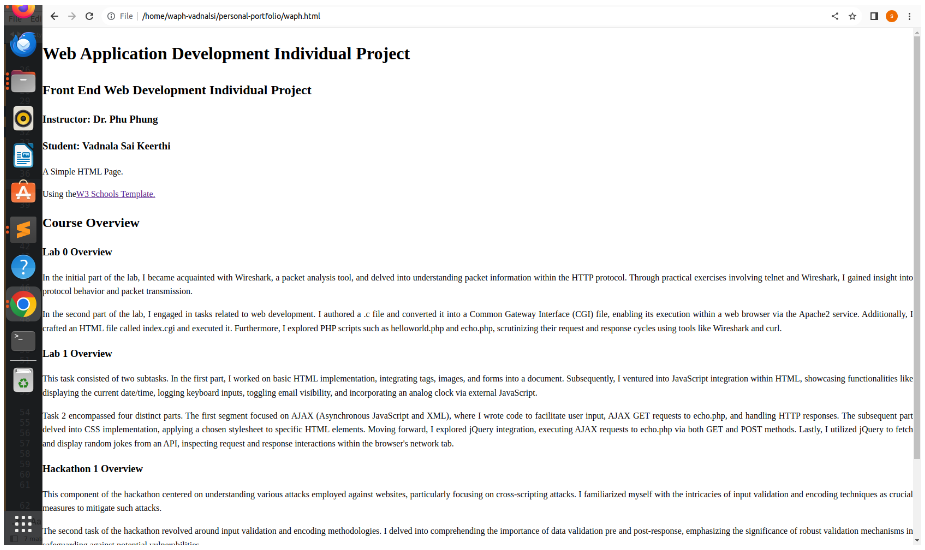
Figure 6: Diplays waph-course link



Web Application Development Individual Project

Front End Web Development Individual Project

Instructor: Dr. Phu Phung

Student: Vadnala Sai Keerthi

A Simple HTML Page.

Using theW3 Schools Template.

Course Overview

Lab 0 Overview

In the initial part of the lab, I became acquainted with Wireshark, a packet analysis tool, and delved into understanding packet information within the HTTP protocol. Through practical exercises involving telnet and Wireshark, I gained insight into protocol behavior and packet transmission.

In the second part of the lab, I engaged in tasks related to web development. I authored a .c file and converted it into a Common Gateway Interface (CGI) file, enabling its execution within a web browser via the Apache2 service. Additionally, I crafted an HTML file called index.cgi and executed it. Furthermore, I explored PHP scripts such as helloworld.php and echo.php, scrutinizing their request and response cycles using tools like Wireshark and curl.

Lab 1 Overview

This task consisted of two subtasks. In the first part, I worked on basic HTML implementation, integrating tags, images, and forms into a document. Subsequently, I ventured into JavaScript integration within HTML, showcasing functionalities like displaying the current date/time, logging keyboard inputs, toggling email visibility, and incorporating an analog clock via external JavaScript.

Task 2 encompassed four distinct parts. The first segment focused on AJAX (Asynchronous JavaScript and XML), where I wrote code to facilitate user input, AJAX GET requests to echo.php, and handling HTTP responses. The subsequent part delved into CSS implementation, applying a chosen stylesheet to specific HTML elements. Moving forward, I explored jQuery integration, executing AJAX requests to echo.php via both GET and POST methods. Lastly, I utilized jQuery to fetch and display random jokes from an API, inspecting request and response interactions within the browser's network tab.

Hackathon 1 Overview

This component of the hackathon centered on understanding various attacks employed against websites, particularly focusing on cross-scripting attacks. I familiarized myself with the intricacies of input validation and encoding techniques as crucial measures to mitigate such attacks.

The second task of the hackathon revolved around input validation and encoding methodologies. I delved into comprehending the importance of data validation pre and post-response, emphasizing the significance of robust validation mechanisms in

Figure 7: Redirecting to waph-course html page

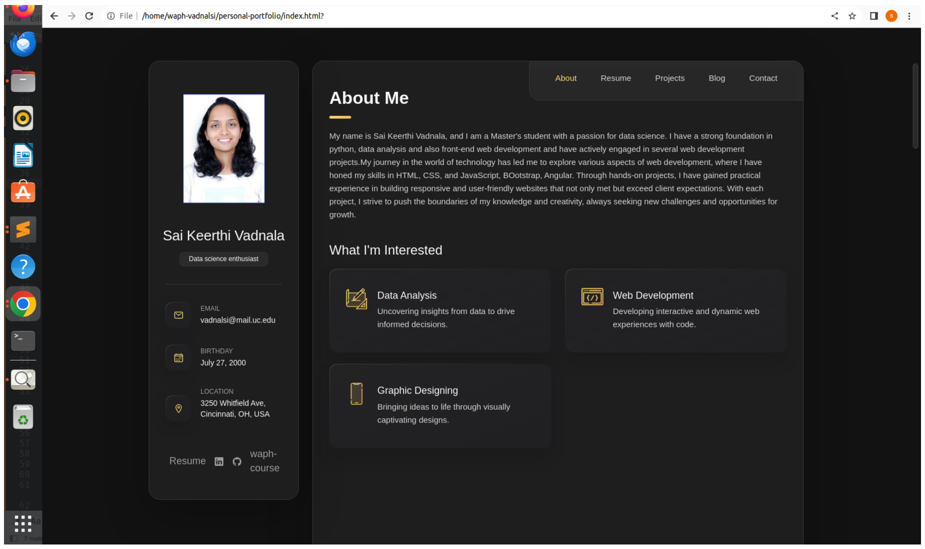


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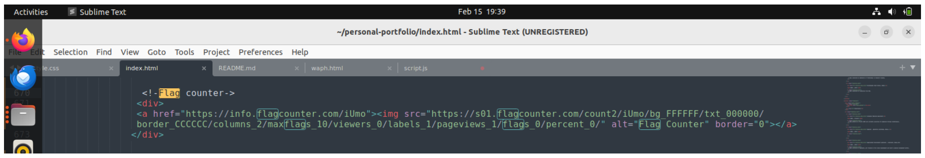
Figure 8: Displaying adding of bootstrap

the image, creating a hyperlink that redirects users to the Flag Counter website when clicked.

- Below is the screenshot of the code and output of the task, (Fig. 9,10).


Activities
Sublime Text
Feb 15 19:39
~/personal-portfolio/index.html - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
style.css
index.html
README.md
waph.html
script.js

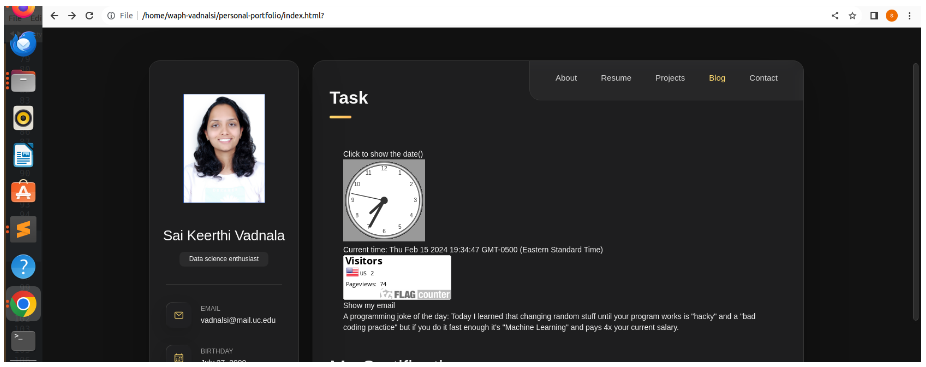
```
 <!-Flag counter->
<div>
<a href="https://info.flagcounter.com/iUmo"><img src="https://s01.flagcounter.com/count2/iUmo/bg_FFFFFF/txt_000000/
border_CCCCCC/columns_2/maxflags_10/viewers_0/labels_1/pageviews_1/flags_0/percent_0/" alt="Flag Counter" border="0"></a>
</div>
```

Figure 9: Flag counter code snippet

Technical requirements

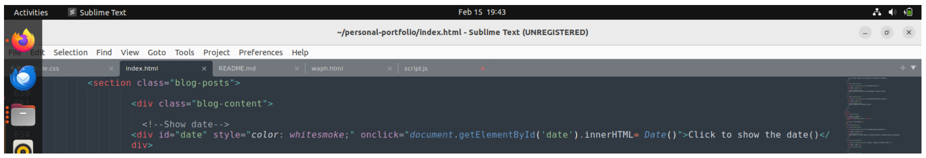
Basic JavaScript code

- I have implemented show date(), analog clock, digital clock, show/hide your email functionalities.
- In show date(), I have created a ‘div’ element with the id “date”, when clicked, it triggers the inbuilt JavaScript function to update the content of the ‘div’ with the current date and time.
- Below is the code snippet for show date(), (fig. 11).
- In analog clock, I setted up a canvas element for analog clock, it includes a script tag to link an external JavaScript file for clock functionality. The JavaScript code initializes the clock by getting the canvas context, setting



Click to show the date()
Current time: Thu Feb 15 2024 19:34:47 GMT-0500 (Eastern Standard Time)
Visitors
US 2
Pageviews: 74
FLAG counter
Show my email
A programming joke of the day: Today I learned that changing random stuff until your program works is "hacky" and a "bad coding practice" but if you do it fast enough it's "Machine Learning" and pays 4x your current salary.

Figure 10: Flag counter output

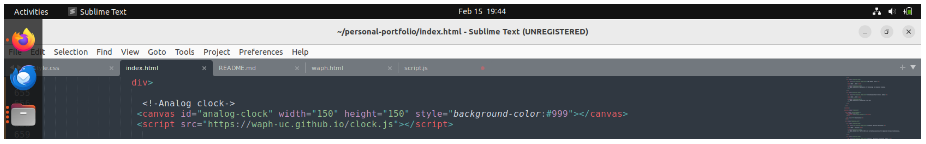

Activities
Sublime Text
Feb 15 19:43
~/personal-portfolio/index.html - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
le.css
index.html
README.md
waph.html
script.js

```
<section class="blog-posts">

        <div class="blog-content">

          <!--Show date-->
        <div id="date" style="color: whitesmoke;" onclick="document.getElementById('date').innerHTML= Date()">Click to show the date()</
        div>
```

Figure 11: Showdate() code snippet

up the clock's dimensions, and then it calls drawClock() function to draw the clock for every second.

- Below is the code snippet for analog clock, (fig. 12).

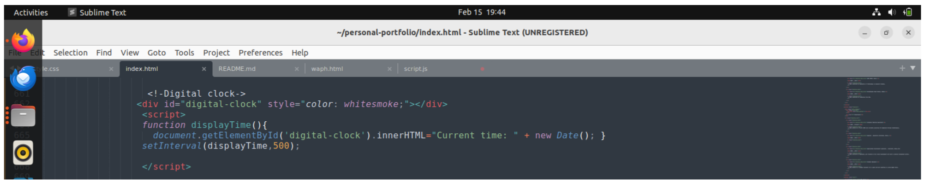

Activities
Sublime Text
Feb 15 19:44
~/personal-portfolio/index.html - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
le.css
index.html
README.md
waph.html
script.js

```
div>

  <!-Analog clock->
 <canvas id="analog-clock" width="150" height="150" style="background-color:#999"></canvas>
 <script src="https://waph-uc.github.io/clock.js"></script>
```

Figure 12: Analog clock code snippet

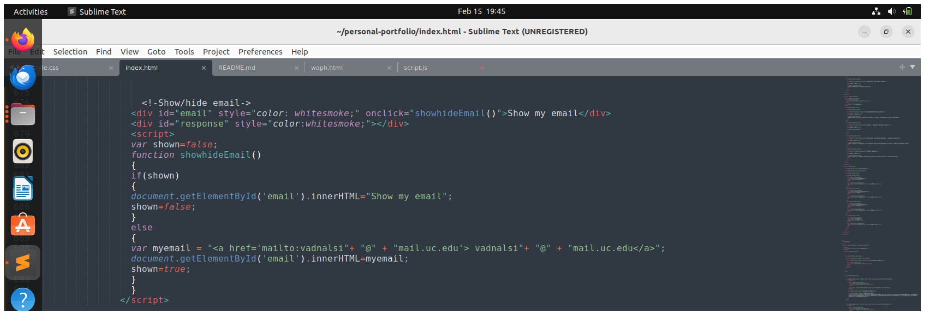
- In digital clock, I created a 'div' element with the id "digital-clock". The JavaScript code defined a function called 'displayTime()' that updates the content of the 'div' with the current time for every 500 milliseconds using the 'setInterval()' method.
- Below is the code snippet for digital clock, (fig. 13).

- For show/hide email functionality, to enables toggling the visibility of an email address when a 'div' element with the id "email" is clicked. Initially showing "Show my email", upon click, it reveals the email address as a hyperlink. This Toggling visibility is handled by JavaScript function 'showhideEmail()', with the visibility state is tracked by the 'shown' variable.
- Below is the code snippet for show/hide email functionality, (fig. 14).


Activities
Sublime Text
Feb 15 19:44
~/personal-portfolio/index.html - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
le.css
index.html
README.md
waph.html
script.js

```
  <!-Digital clock->
<div id="digital-clock" style="color: whitesmoke;"></div>
 <script>
 function displayTime(){
   document.getElementById('digital-clock').innerHTML="Current time: " + new Date(); }
 setInterval(displayTime,500);

 </script>
```

Figure 13: Digital clock code snippet


Activities
Sublime Text
Feb 15 19:45
~/personal-portfolio/index.html - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
le.css
index.html
README.md
waph.html
script.js

```
   <!-Show/hide email->
  <div id="email" style="color: whitesmoke;" onclick="showhideEmail()">Show my email</div>
  <div id="response" style="color:whitesmoke;"></div>
  <script>
  var shown=false;
  function showhideEmail()
  {
  if(shown)
  {
  document.getElementById('email').innerHTML="Show my email";
  shown=false;
  }
  else
  {
  var myemail = "<a href='mailto:vadnalsi"+ "@" + "mail.uc.edu'> vadnalsi"+ "@" + "mail.uc.edu</a>";
  document.getElementById('email').innerHTML=myemail;
  shown=true;
  }
  }
</script>
```

Figure 14: Show/hide email code snippet

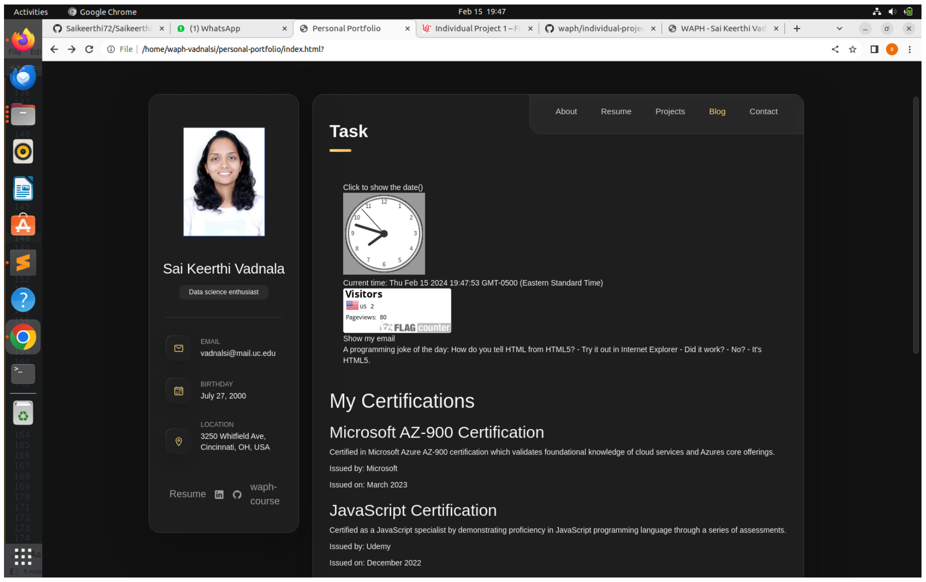
- Output for all these JS and JQuery functionalities is shown in the below screenshot, (fig. 15).

Angular functionality

- I have used AngularJS to dynamically render a sections to present “My Certifications.” It employs the ng-repeat directive to iterate over an array of certification objects, dynamically generating content for each certification entry based on its name, description, issuer, and date.
- The AngularJS controller, named ‘CertificationController’, serves as a intermediary. Within this controller, an array named ‘$scope.certifications’ is initialized, representing various certifications. Each object encapsulates essential information including certification’s name, description, issuer, and issuance date.
- By associating the ‘CertificationController’ with the ‘portfolioApp’ module, the controller establishes the data-binding.
- Below is the code snippet and output for angular functionality, (fig, 16,17).

Two public Web APIs integration

- This JavaScript code fetches a joke from the JokeAPI and displays on the webpage. It uses jQuery’s ‘$.get()’ method to make an asynchronous GET request to the specified URL, which returns a single programming joke. Upon receiving the response, the anonymous callback function is executed,



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Resume waph-course

Task

Click to show the date()

Current time: Thu Feb 15 2024 19:47:53 GMT-0500 (Eastern Standard Time)

Visitors
US 2
Pageviews: 80
FLAG counter

Show my email
A programming joke of the day: How do you tell HTML from HTML5? - Try it out in Internet Explorer - Did it work? - No? - It's HTML5.

My Certifications

Microsoft AZ-900 Certification

Certified in Microsoft Azure AZ-900 certification which validates foundational knowledge of cloud services and Azures core offerings.

Issued by: Microsoft

Issued on: March 2023

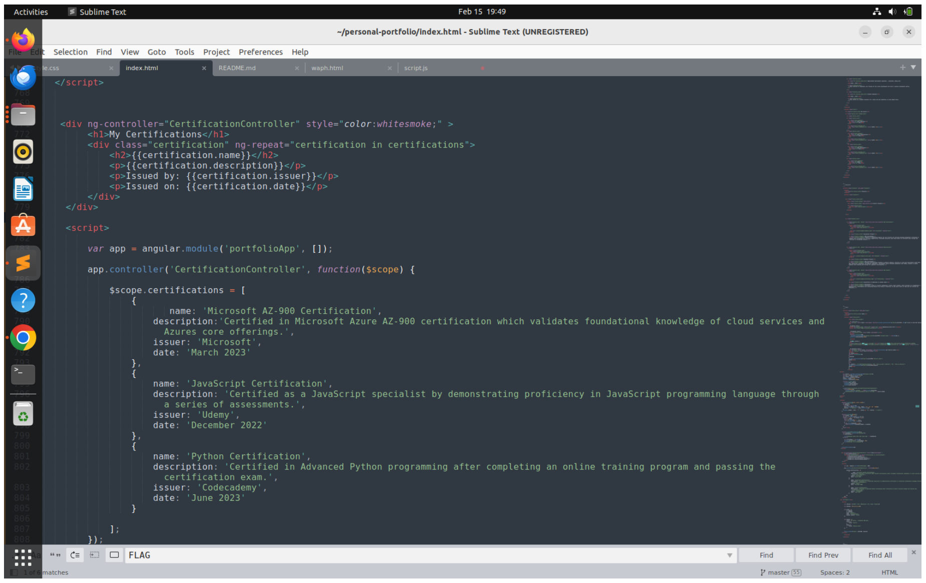
JavaScript Certification

Certified as a JavaScript specialist by demonstrating proficiency in JavaScript programming language through a series of assessments.

Issued by: Udemy

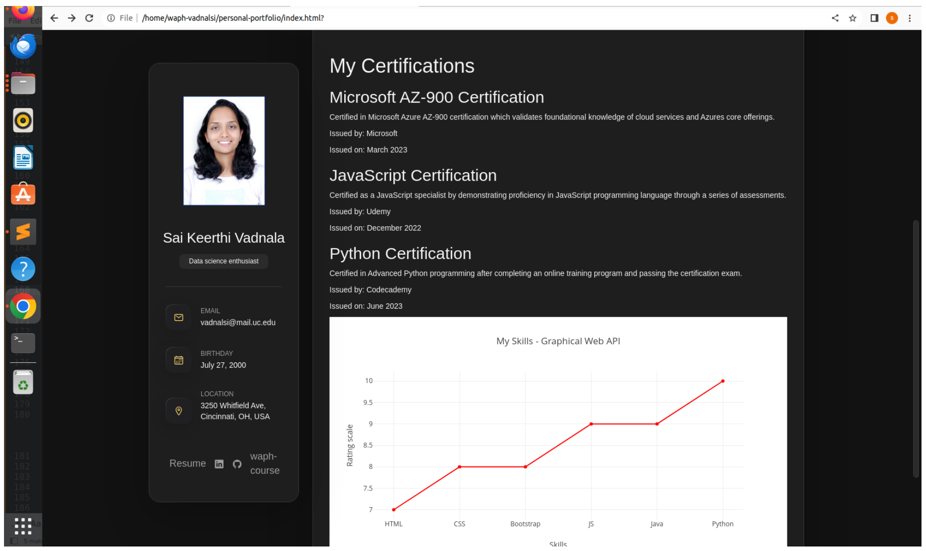
Issued on: December 2022

Figure 15: Output of all JS functionalities



```
</script>



 <div ng-controller="CertificationController" style="color:whitesmoke;" >
      <h1>My Certifications</h1>
      <div class="certification" ng-repeat="certification in certifications">
          <h2>{{certification.name}}</h2>
          <p>{{certification.description}}</p>
          <p>Issued by: {{certification.issuer}}</p>
          <p>Issued on: {{certification.date}}</p>
      </div>
  </div>

  <script>

      var app = angular.module('portfolioApp', []);

      app.controller('CertificationController', function($scope) {

          $scope.certifications = [
              {
                     name: 'Microsoft AZ-900 Certification',
                  description:'Certified in Microsoft Azure AZ-900 certification which validates foundational knowledge of cloud services and
                    Azures core offerings.',
                  issuer: 'Microsoft',
                  date: 'March 2023'
              },
              {
                  name: 'JavaScript Certification',
                  description: 'Certified as a JavaScript specialist by demonstrating proficiency in JavaScript programming language through
                    a series of assessments.',
                  issuer: 'Udemy',
                  date: 'December 2022'
              },
              {
                  name: 'Python Certification',
                  description: 'Certified in Advanced Python programming after completing an online training program and passing the
                    certification exam.',
                  issuer: 'Codecademy',
                  date: 'June 2023'
              }

          ];
      });
```

Figure 16: Certifications code using angular



My Certifications

Microsoft AZ-900 Certification

Certified in Microsoft Azure AZ-900 certification which validates foundational knowledge of cloud services and Azures core offerings.

Issued by: Microsoft

Issued on: March 2023

JavaScript Certification

Certified as a JavaScript specialist by demonstrating proficiency in JavaScript programming language through a series of assessments.

Issued by: Udemy

Issued on: December 2022

Python Certification

Certified in Advanced Python programming after completing an online training program and passing the certification exam.

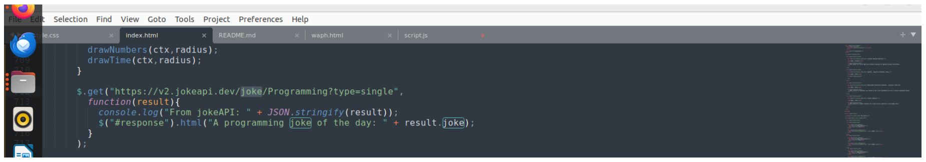
Issued by: Codecademy

Issued on: June 2023

Figure 17: Certifications output

logging the joke to the console and updating the content of the element with the id "response" to display the joke for every 60 seconds.

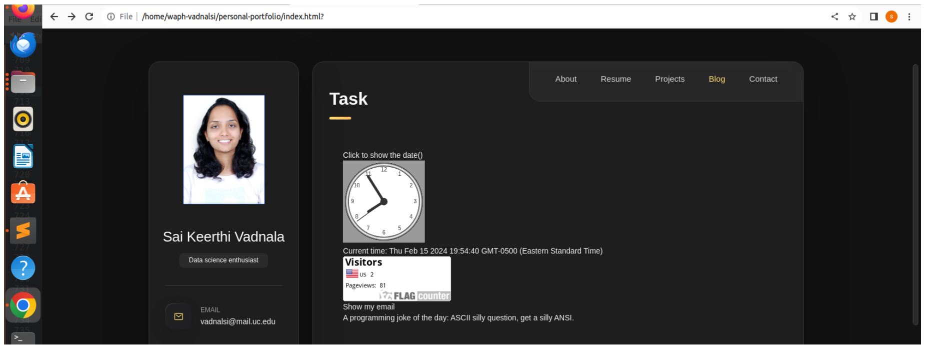
- Below is the code snippet and output for digital clock, (fig. 18,19).



```
    drawNumbers(ctx,radius);
    drawTime(ctx,radius);
  }

  $.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);
    }
  );
```

Figure 18: Jokeapi code

- Graphical web API
- I have used Plotly.js, a graphing library, to generate a scatter plot to display skill rating.
- The 'xValues' array contains the skills, while 'yValues' represents their corresponding ratings.
- The layout defines the title of the graph along with labels for the x and y axes.
- The 'Plotly.newPlot()" function creates the graph within a 'div' container with the id "myDiv".
- Below is the code snippet and output for generating a chart using graphical web API, (fig. 20,21).


File | /home/waph-vadnalsi/personal-portfolio/index.html?

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Task

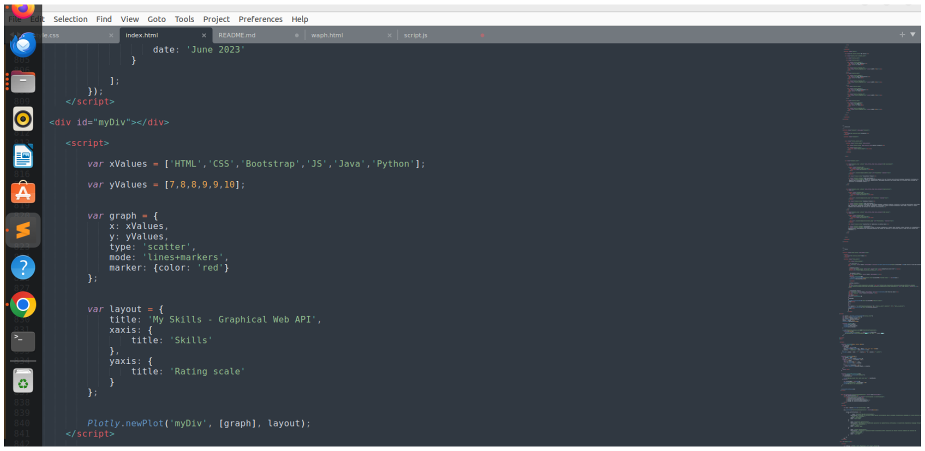
Click to show the date()

Current time: Thu Feb 15 2024 19:54:40 GMT-0500 (Eastern Standard Time)

Show my email

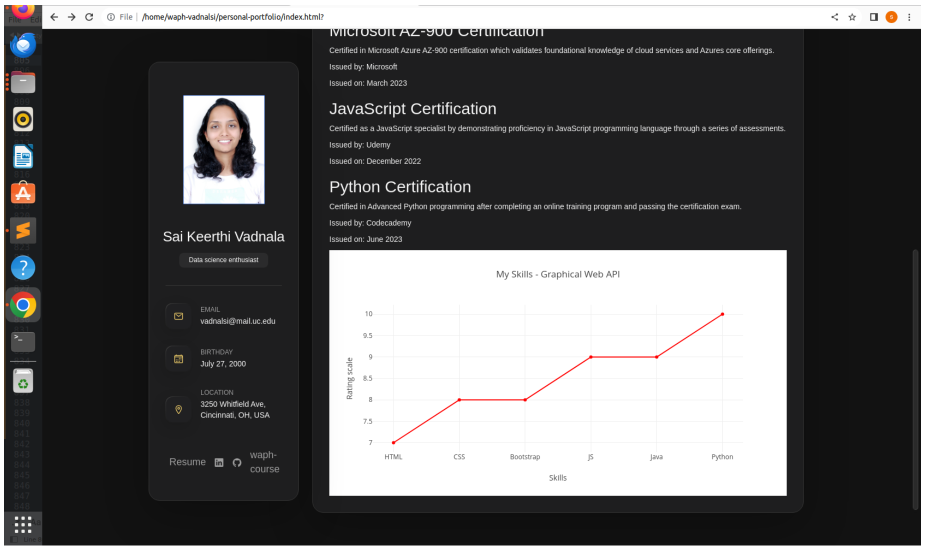
A programming joke of the day: ASCII silly question, get a silly ANSI.

Figure 19: Jokeapi output



```
                    date: 'June 2023'
                }

            ];
        });
    </script>

<div id="myDiv"></div>

    <script>

        var xValues = ['HTML','CSS','Bootstrap','JS','Java','Python'];

        var yValues = [7,8,8,9,9,10];


        var graph = {
            x: xValues,
            y: yValues,
            type: 'scatter',
            mode: 'lines+markers',
            marker: {color: 'red'}
        };


        var layout = {
            title: 'My Skills - Graphical Web API',
            xaxis: {
                title: 'Skills'
            },
            yaxis: {
                title: 'Rating scale'
            }
        };


        Plotly.newPlot('myDiv', [graph], layout);
    </script>
```

Figure 20: Graphic web api code


/home/waph-vadnalsi/personal-portfolio/index.html?

Microsoft AZ-900 Certification

Certified in Microsoft Azure AZ-900 certification which validates foundational knowledge of cloud services and Azures core offerings.

Issued by: Microsoft

Issued on: March 2023

JavaScript Certification

Certified as a JavaScript specialist by demonstrating proficiency in JavaScript programming language through a series of assessments.

Issued by: Udemy

Issued on: December 2022

Python Certification

Certified in Advanced Python programming after completing an online training program and passing the certification exam.

Issued by: Codecademy

Issued on: June 2023

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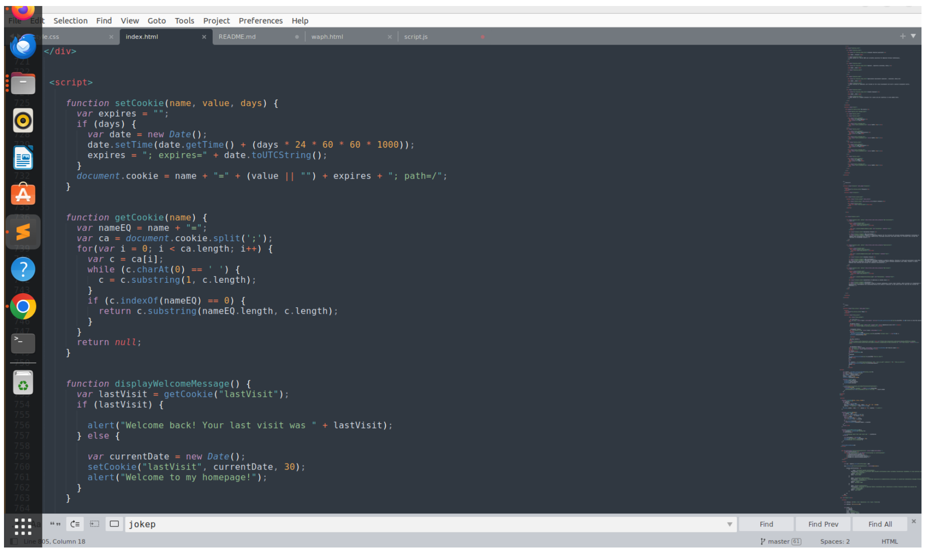
Figure 21: Graphic web api Output

Using JavaScript cookies to remember the client

- The ‘setCookie’ function sets a cookie with the specified name, value, and expiration date in days.
- The ‘getCookie’ function retrieves the value of a cookie by its name.
- The ‘displayWelcomeMessage’ function checks if the user has visited the website before by retrieving the last visit timestamp from the cookie.
- If the user has visited before, it displays a welcome back message with the timestamp of their last visit.
- If it’s the user’s first visit, it sets a cookie with the current date as the last visit timestamp and displays a welcome message.
- Below is the code snippet and output for above task(fig. 22,23,24).



```
</div>


 <script>

   function setCookie(name, value, days) {
     var expires = "";
     if (days) {
       var date = new Date();
       date.setTime(date.getTime() + (days * 24 * 60 * 60 * 1000));
       expires = "; expires=" + date.toUTCString();
     }
     document.cookie = name + "=" + (value || "") + expires + "; path=/";
   }


   function getCookie(name) {
     var nameEQ = name + "=";
     var ca = document.cookie.split(';');
     for(var i = 0; i < ca.length; i++) {
       var c = ca[i];
       while (c.charAt(0) == ' ') {
         c = c.substring(1, c.length);
       }
       if (c.indexOf(nameEQ) == 0) {
         return c.substring(nameEQ.length, c.length);
       }
     }
     return null;
   }


   function displayWelcomeMessage() {
     var lastVisit = getCookie("lastVisit");
     if (lastVisit) {

       alert("Welcome back! Your last visit was " + lastVisit);
     } else {

       var currentDate = new Date();
       setCookie("lastVisit", currentDate, 30);
       alert("Welcome to my homepage!");
     }
   }
```

Figure 22: Cookies code

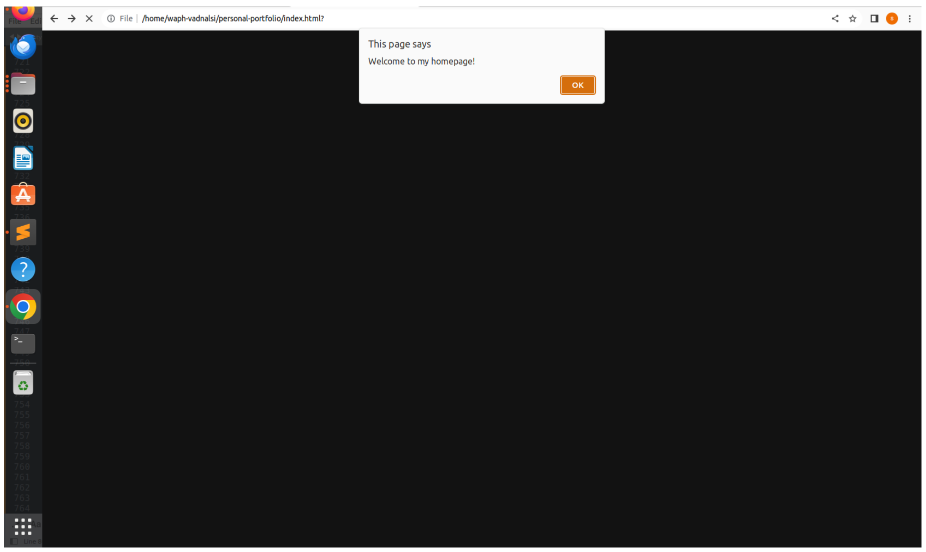
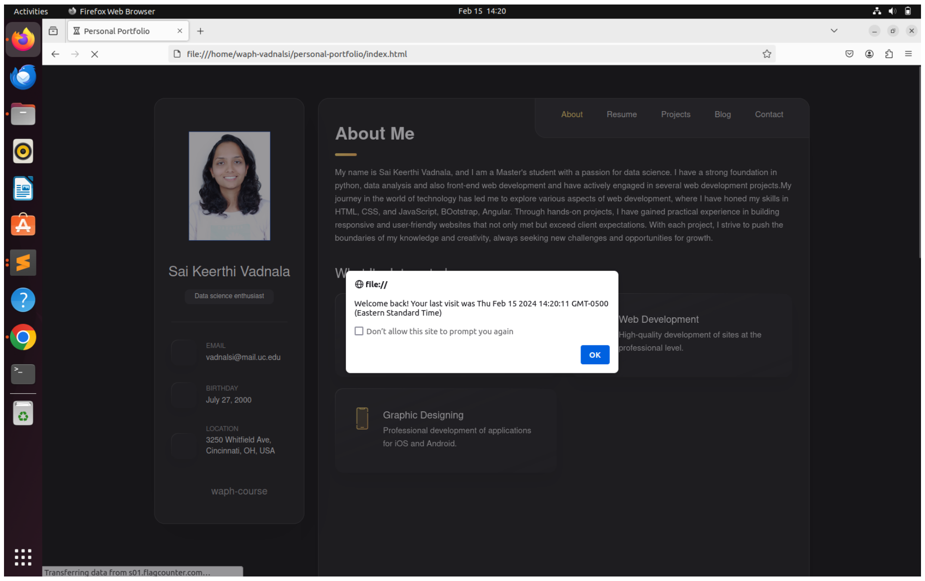


Figure 23: Welcome home page



About Me

My name is Sai Keerthi Vadnala, and I am a Master's student with a passion for data science. I have a strong foundation in python, data analysis and also front-end web development and have actively engaged in several web development projects.My journey in the world of technology has led me to explore various aspects of web development, where I have honed my skills in HTML, CSS, and JavaScript, BOotstrap, Angular. Through hands-on projects, I have gained practical experience in building responsive and user-friendly websites that not only met but exceed client expectations. With each project, I strive to push the boundaries of my knowledge and creativity, always seeking new challenges and opportunities for growth.

file://

Welcome back! Your last visit was Thu Feb 15 2024 14:20:11 GMT-0500 (Eastern Standard Time)

☐ Don't allow this site to prompt you again

OK

Web Development
High-quality development of sites at the professional level.

Graphic Designing
Professional development of applications for iOS and Android.

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waph-course

Transferring data from s01.flagcounter.com...

Figure 24: Last visit page