Module Code & Module Title

CC4002NA Information Systems

Assessment Weightage & Type

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Introduction

This project is all about creating a website ,using Html, CSS, and JavaScript.

- **Website**
  A website is a collection of webpages that contains similar subject matter. A webpage is a document written in HTML that is accessible through the internet or other network using Internet browser.

- **HTML(Hypertext Markup Language)**
  HTML is simply a standard markup language used to create, design and give basic structure to the webpages. It forms the skeleton of a web page. Tags are basic element used in html. An html tag is a set of character constituting a formatted command for a webpage.

- **CSS(Cascading Style Sheets)**
  CSS is language that describes the style of an HTML document. CSS allows us to apply styles and layout to the webpages.

- **JavaScript**
  JavaScript is a lightweight programming language used to make web pages interactive. It is used to make our webpage more lively and interactive.

- **Normalization**
  Normalization is a technique of organizing the data in database.

- **Goals and Objectives**
  Our objectives are to be able to understand the basics and working of the elements used in html for making websites. By using these basic elements, we are to develop a simple portfolio with all requirements fulfilled. We should understand the use of different tags, how to use different types of css for the html page to be more stylish. JavaScript should be known so to make the website interactive. Our goals are that these basic knowledge which we learned are to be sharpened for future use. We should be able to make a well designed , structured and animated website which might help us in internship, jobs and others filed in upcoming days.

- **Tools**
  Tools like Sublime Text 3, Balsamiq helped us to complete the project.
  Different tags were used to make the database.

Discussion and Analysis

This project was all about creating website. A website is a collection of webpages that contains similar subject matter. A webpage is a document written in HTML that is accessible through the internet or other network using Internet browser While creating this project technologies like html5, CSS3 and JavaScript were used.

- **HTML**

  HTML is a language made up of elements which can be applied to pieces of text to give them different meaning in a document, structure a document into logical sections, and embed content such as images and videos into a page. HTML is not a programming language; it is the combination of Hypertext and Markup language which is used to give structure to the text. It is designed, documented and maintained by the World Wide Web Consortium(W3C). HTML uses tags to define element within a document. An html tag is a set of character constituting a formatted command for a webpage. There are different tags that are used for the completion of project. (Himanshu_Singh_Bisht, 2013)These are:

  i. Title tag
     It declares what the page's title is.

  ii. Meta tag
      It contains additional information about the page.

  iii. Image tag
       It defines a image in an HTML page.

  iv. Table tag
      It defines a table in a HTML page.

  v. Div tag
     It defines a division or a section in an HTML document.

  vi. Form tag
      It defines a form in a HTML page.

- **CSS**

  CSS is a language that describes the style of an HTML document. CSS is used to style and layout web pages — for example, to alter the font, color, size and spacing of your content, split it into multiple columns, or add animations and other decorative features. CSS enhances the basic structure by giving it proper styling, formatting. It describes how HTML elements should be displayed. CSS Style rules define how the content on the web page is formatted and displayed.

There are three style rules that is also required for the completion of the project. (mdnwebdocs-bot, 2019)They are:

A. External style sheets
External style sheets are kept in a separate file.

B. Internal style sheets
Internal style sheets are defined between the <head> tag.

C. Inline styles
Inline styles are attached to a specific element rather than across the whole page.

- **JavaScript**
JavaScript is a cross-platform, object-oriented scripting language used for making interactive webpages (e.g. having complex animations, clickable buttons, popup menus, etc.). JavaScript controls the behavior of different elements, adds programming logic to the web pages. JavaScript is used to get information about a user's computer (ex: browser type), perform tasks on user's computer, and react to events (ex: page loads, user clicks). JS can easily change the content of HTML elements and their CSS properties. (device25, 2019)

We were given this project on 22nd week and to be submitted on week 28. We were to develop a website which should contain five webpages. First, I went through the lecture slides and researched different website for the references. After taking references I made wireframes to make a rough design of the website. Then, I went through different videos on designing and animating the website. We were to make blog page, cv page, research page and form page. We went through different videos for developing these pages. We were to include external, internal and inline css, JavaScript with different tags . I went through w3 school for the reference for JavaScript. I meet with tutors to help me out with problems I had. Finally, after weeks of research and with the help of you tube videos, websites and tutor I was able to make a well-designed website.

- **Tools**
Tools like SublimeText3, Balsamiq were used for the completion of database. Sublime Text Editor is a full featured editor for editing code base. Balsamiq is a platform for making wireframes. I used these tools as I fell ease using them and fell comfortable doing work on it.

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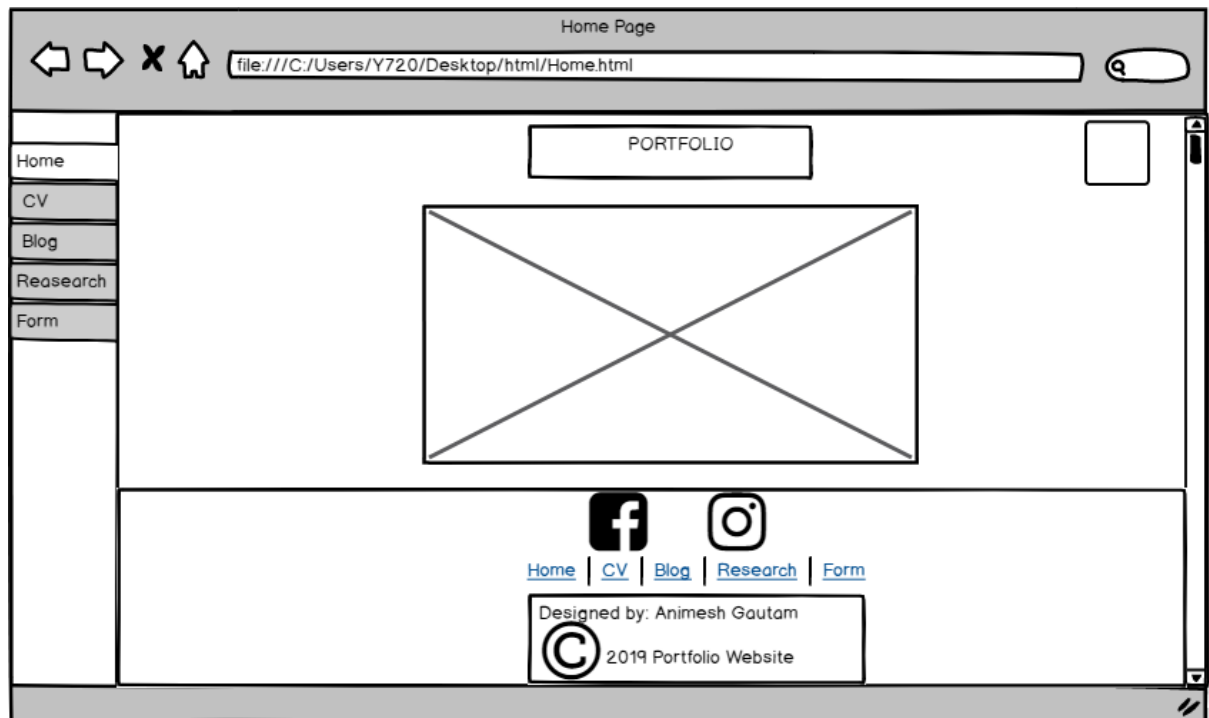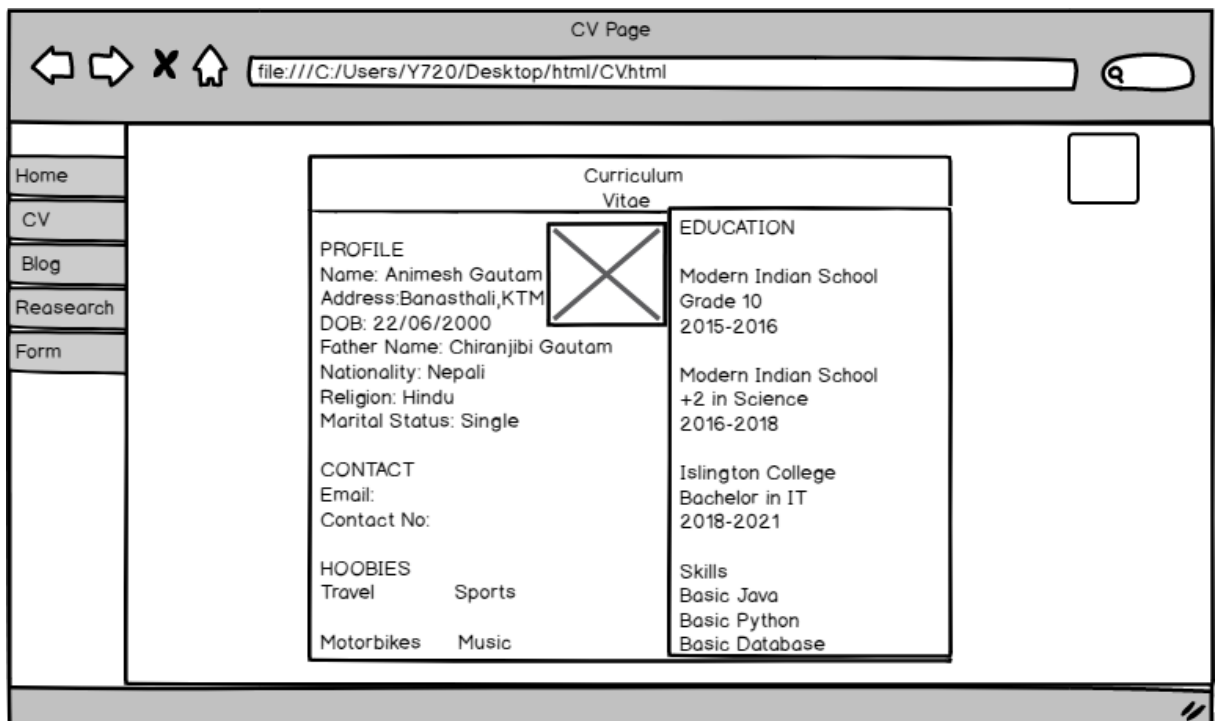
- **Wireframes**
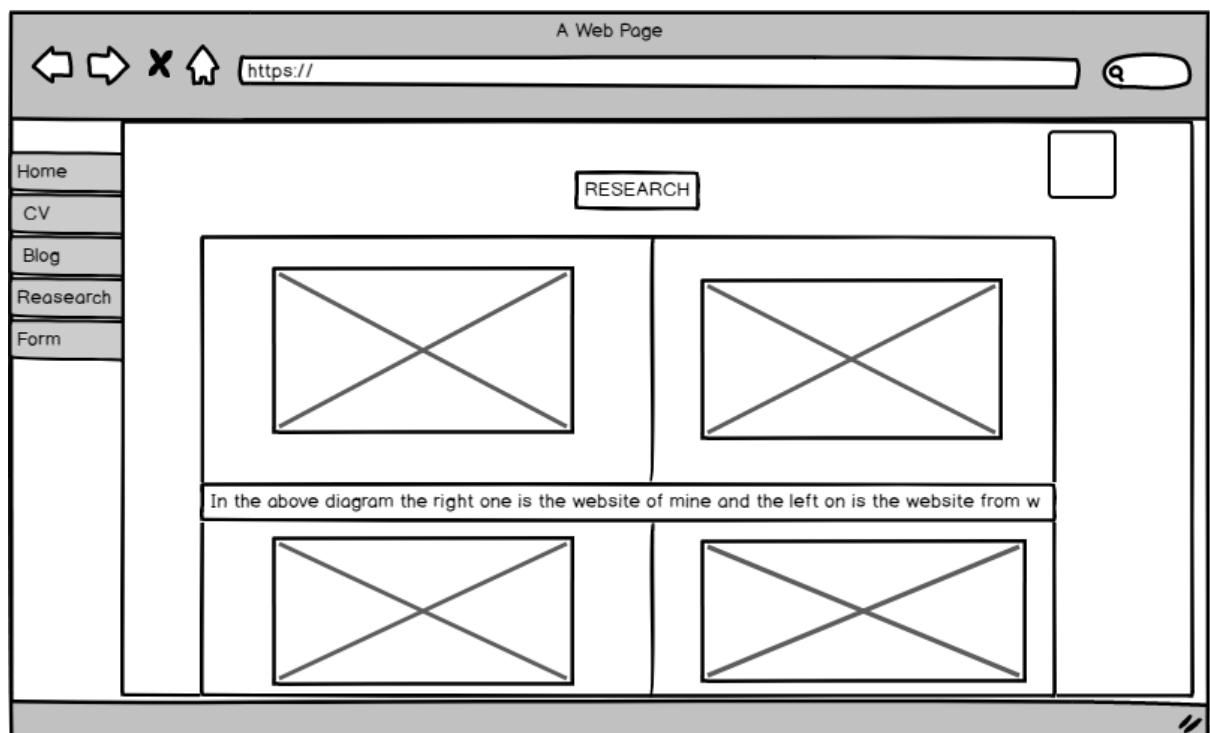
Figure 1-Home Page

Figure 2-CV Page

Figure 3-Blog Page

Blog Page

file:///C:/Users/Y720/Desktop/html/Blog.html

Home
CV
Blog
Reasearch
Form

BLOG

Technology
Published on May9,2019

What is Technology?   18:04:40
Technology refers to methods, systems, and devices which are the result of scientific knowledge being used for practical purposes. The term 'Technology" is wide, and everyone has their way of understanding its meaning. We use technology to accomplish various tasks in our daily lives. We use technology to extend our abilities, making people the most crucial part of any technological system. Technology is also an application of science used to solve problems. But it is vital to know that technology and science are different subjects which work hand-in-hand to accomplish specific tasks or solve problems. We apply technology in almost everything we do in our daily lives; we use technology at work, we use technology for communication, transportation, learning, manufacturing, securing data, scaling businesses and so much more. Technology is human knowledge which involves tools, materials, and systems. The application of technology typically results in products. If technology is well applied, it benefits humans, but the opposite is true, if used for malicious reasons.

How technology has affected students in their daily lives.

Figure 4-Research Page

A Web Page

https://

Home
CV
Blog
Reasearch
Form

RESEARCH

In the above diagram the right one is the website of mine and the left on is the website from w

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Figure 5-Form Page

- **Screenshots**

Figure 6-Home

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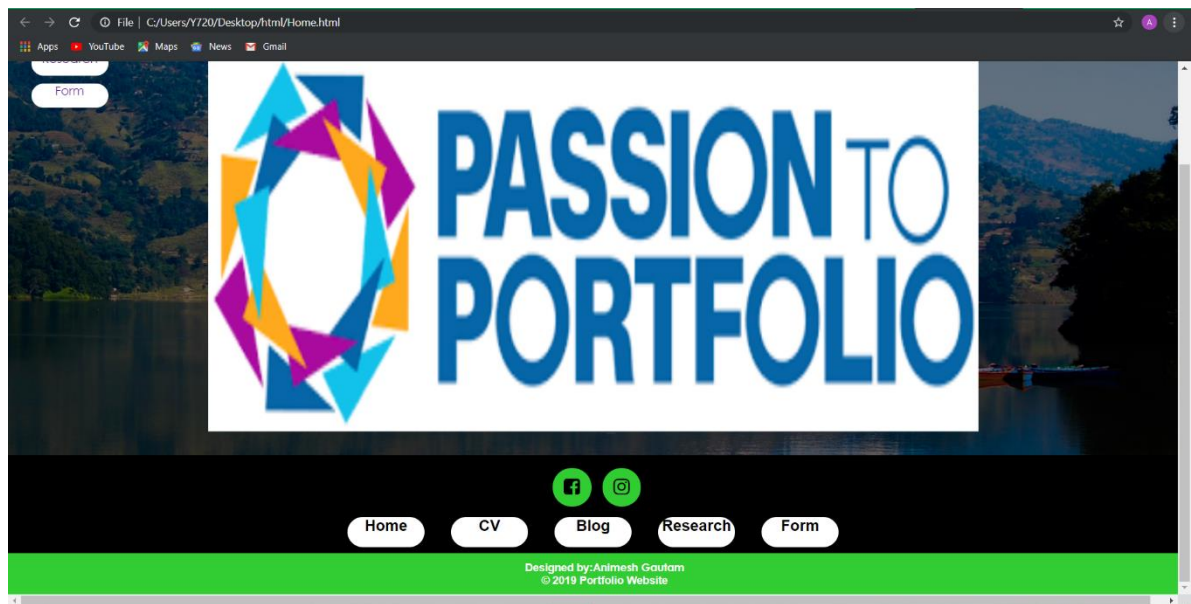
Figure 7-Footer

Figure 8-CV

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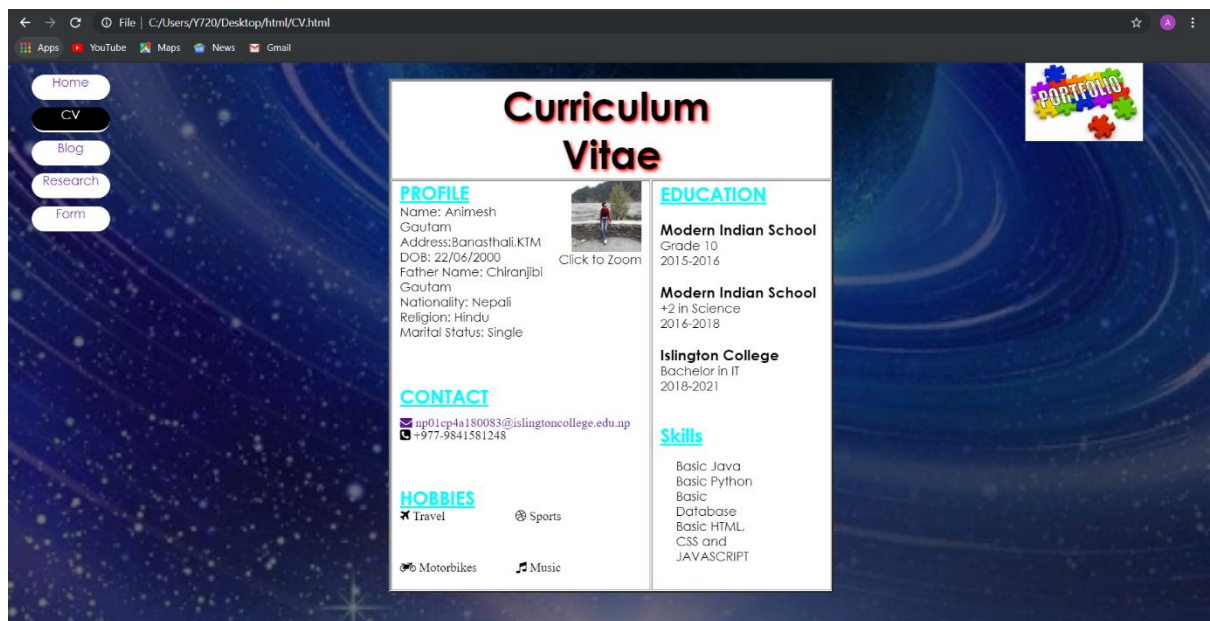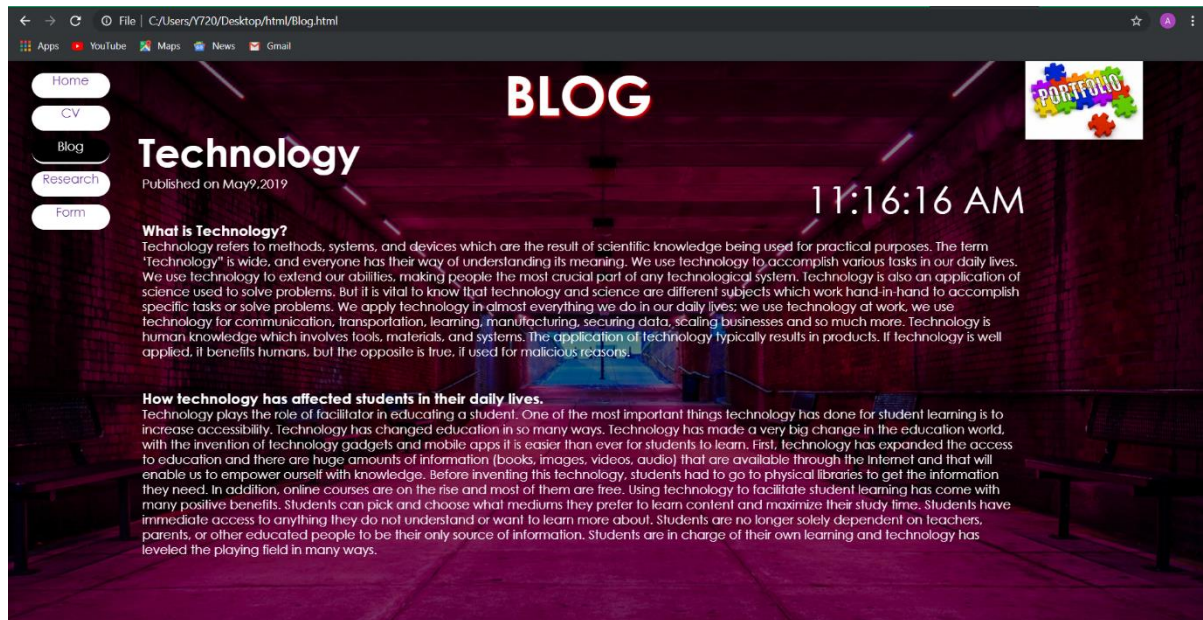
Figure 9-Blog

Figure 10-Research

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Figure 11-Form

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Testing

Test 1

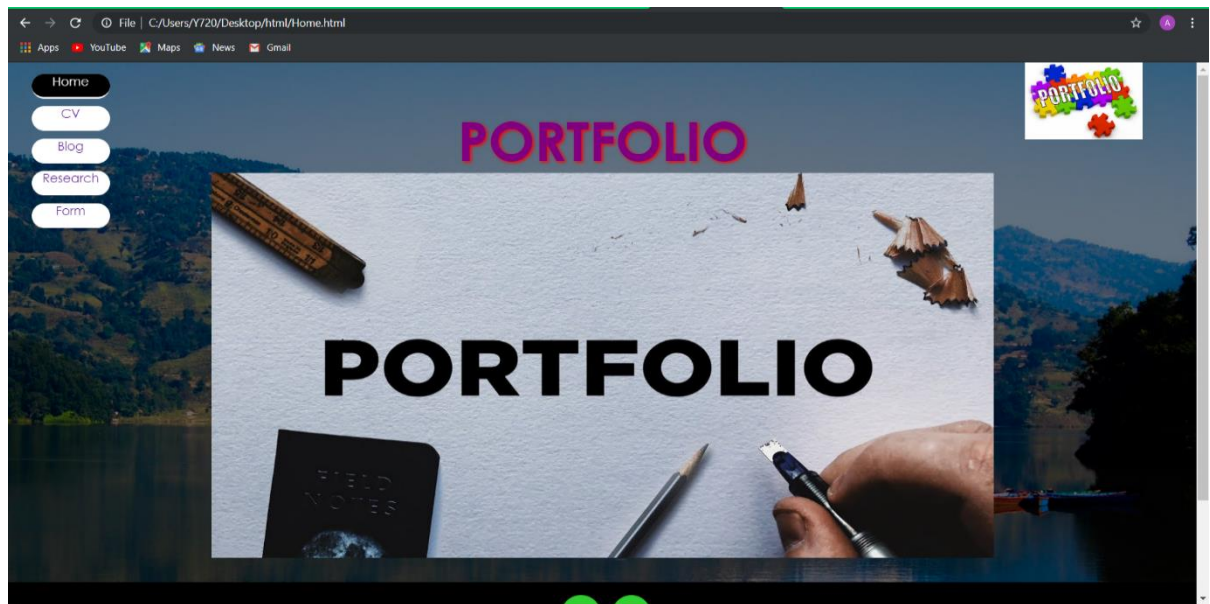| Test No	1
Action	Checking whether the color of heading changes or not
Expected result	Change in the color of heading in a certain time interval without click
Actual result	Color changes
Test result	Pass

Table 1-Test1

Figure 12- Heading color 1

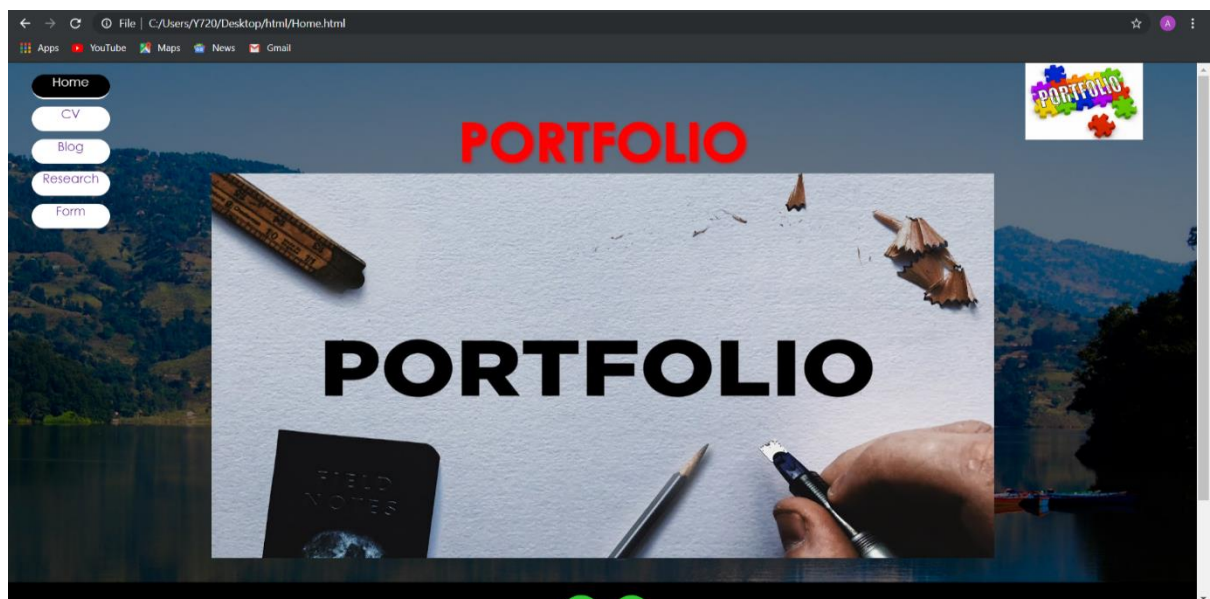*Figure 13-Heading color 2*

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```
<script>

    var time = 1000;
    function changeColor(){
        var x = document.getElementById('heading');
        if(x.style.color =="white"){
            x.style.color="red";
        }
        else if (x.style.color =="red"){
            x.style.color="black";
        }
        else if (x.style.color =="black"){
            x.style.color="purple";
        }
        else{
            x.style.color="white";
        }
        setTimeout("changeColor()", time);
    }
    changeColor();


</script>
```

Figure 14-Code for heading color change

Test 2

Test No	2
Action	
Expected result	Image change in a certain time interval without click
Actual result	Image changes
Test result	Pass

Table 2-Test 2

Figure 15-Image slider 1

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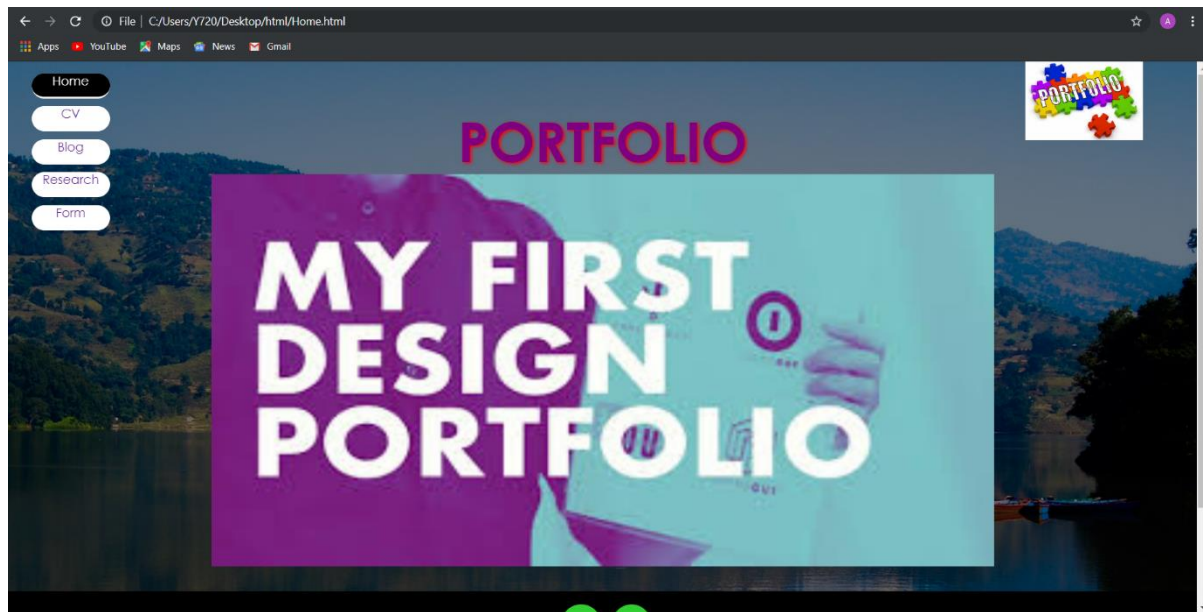
Figure 16-Image slider 2

```
<script>
    var i = 0;
    var images = [];
    var time1 = 2000;
    images[0] = 'image1.jpg';
    images[1] = 'image2.jpg';
    images[2] = 'image3.jpg';

    function changeImg(){
        document.slide.src = images[i];

        if (i < images.length - 1) {
            i++;
        }else{
            i=0;
        }
        setTimeout("changeImg()", time1);
    }
    changeImg();


</script>
```

Figure 17-Code for Image slider

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Test 3

Test No	3
Action	Clicking the picture in CV webpage
Expected result	Image pop up on click
Actual result	Pops up image when clicked
Test result	Pass

Table 3-Test 3

Figure 18- CV Test

Figure 19-Image Popup

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```
<table border="2" align="center" width="70%"  style="background-color:white  ;">
<th colspan="2"><h1 style="color: black;
font-size: 50px;text-shadow: 2px 2px 4px red;">Curriculum <br/> Vitae</h1></th>



<tr >

    <section >
        <article>

            <td>
                <div  class="popup" onclick="myFunction()"><img src="images.jpg" style=" width:90px;height:90px
                    ;  padding-right: 10px;"><p style="padding-right: 10px;">Click to Zoom</p>
                    <span class="popuptext" id="myPopup"><img src="images.jpg" style=" width:400px;height:300px
                        ;"></span>
                </div>
                <div class="data">
                <h2 ><ins>PROFILE</ins></h2>
                <p>Name: Animesh Gautam</p>
                <p>Address:Banasthali,KTM</p>
                <p>DOB: 22/06/2000</p>
```
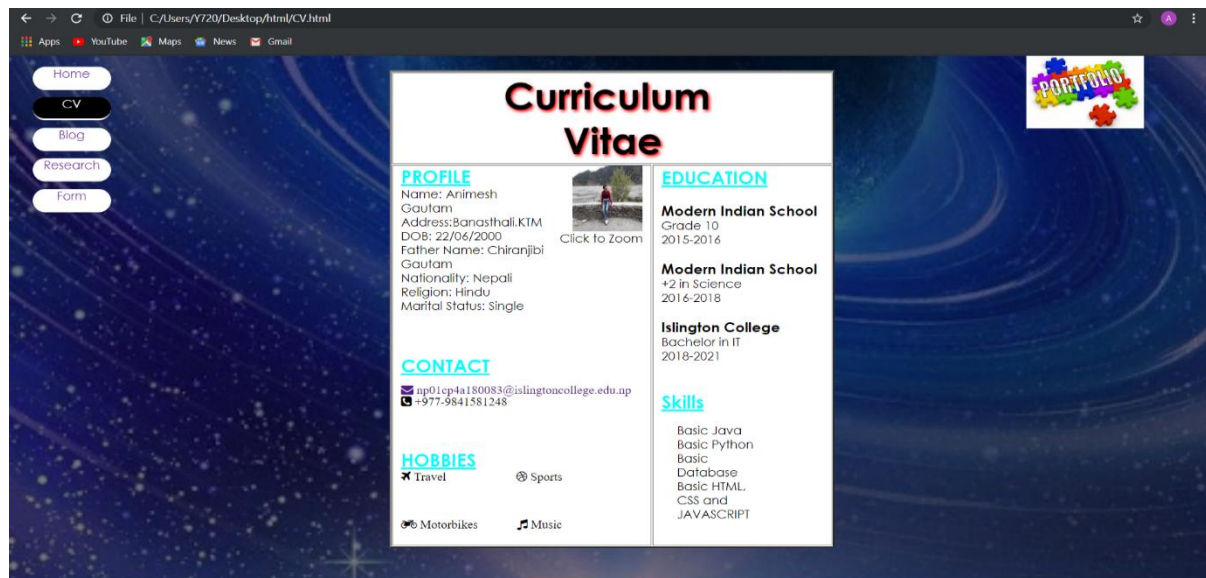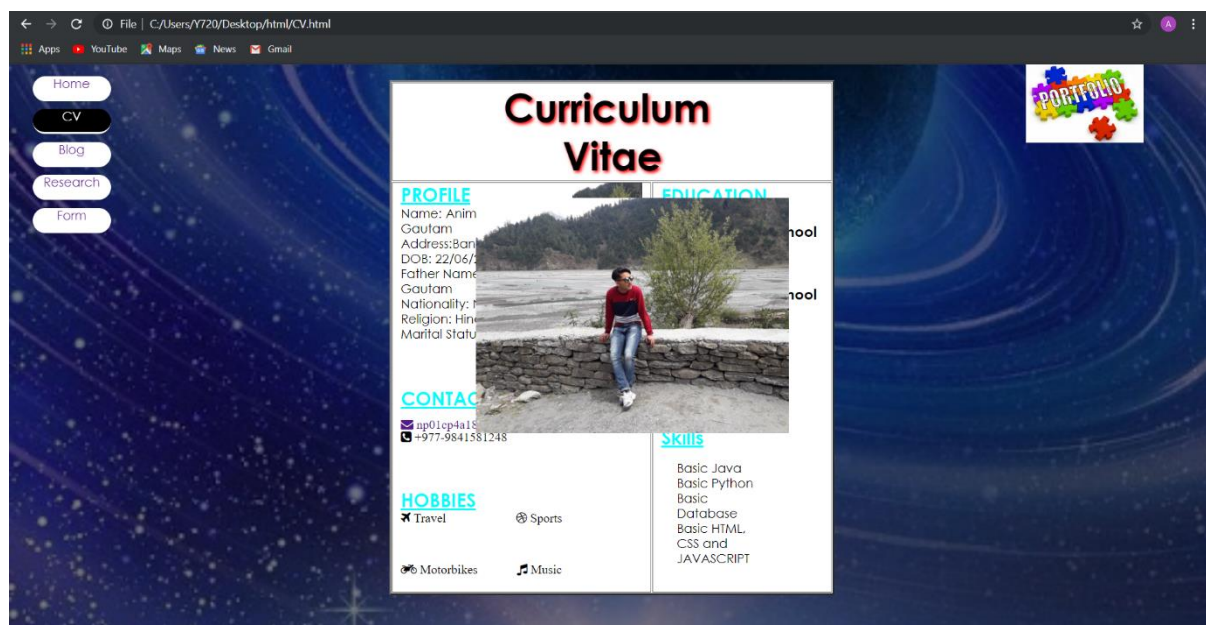
Figure 20-Code for Image popup 1

```
            </section>

        </tr>




</table>

</div>
</div>
</header>
<script>
        function myFunction() {
    var popup = document.getElementById("myPopup");
    popup.classList.toggle("show");
}
    </script>
</body>
```

Figure 21-Code for Image Popup 2

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Test 4

Test No	4
Action	Checking whether the time is shown or not in Blog webpage
Expected result	Time show
Actual result	Shows time
Test result	Pass

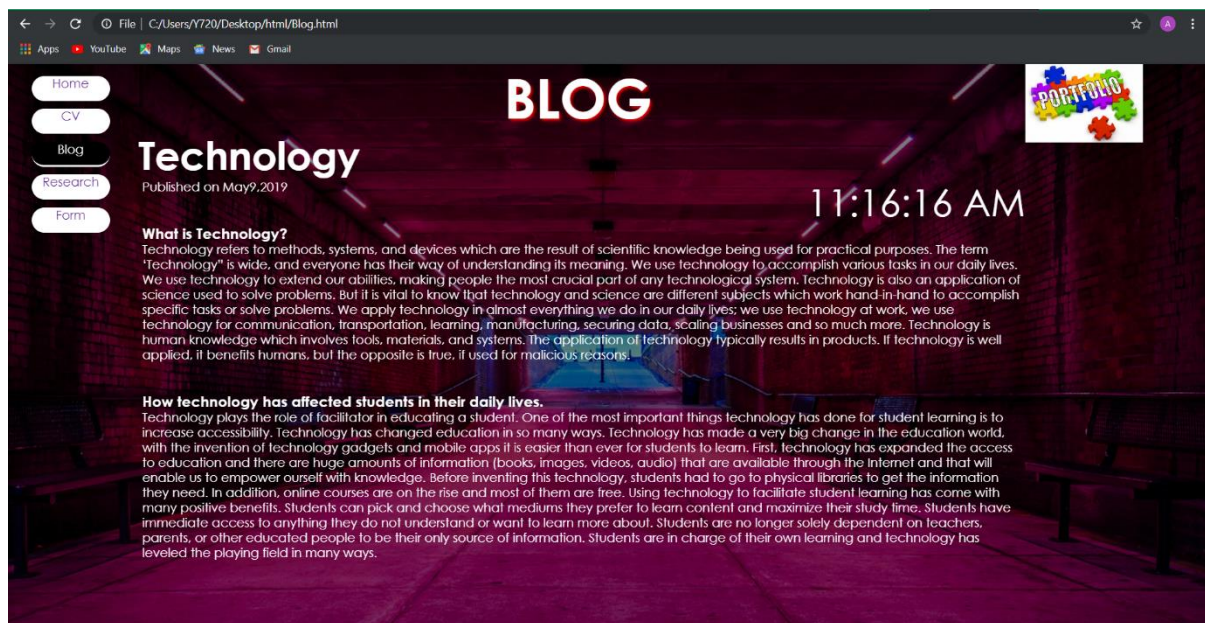*Table 4-Test 4*

Figure 22-Time show


```
<script>
    function time(){
    var date= new Date();
    document.getElementById("demo").innerHTML= date.toLocaleTimeString().fontsize(10);
}
var sec= setInterval(time,1000);
</script>
```

Figure 23-Code for Time show

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Test 5

| Test No	5
Action	Clicking send button when text fields are empty and when all text field are filled in Form webpage.
Expected result	Error message pop up when fields are empty and successful message pop up when fields are filled.
Actual result	Message pops up showing error when fields are empty and successful message pops up when fields are filled.
Test result	Pass

Table 5-Test 5
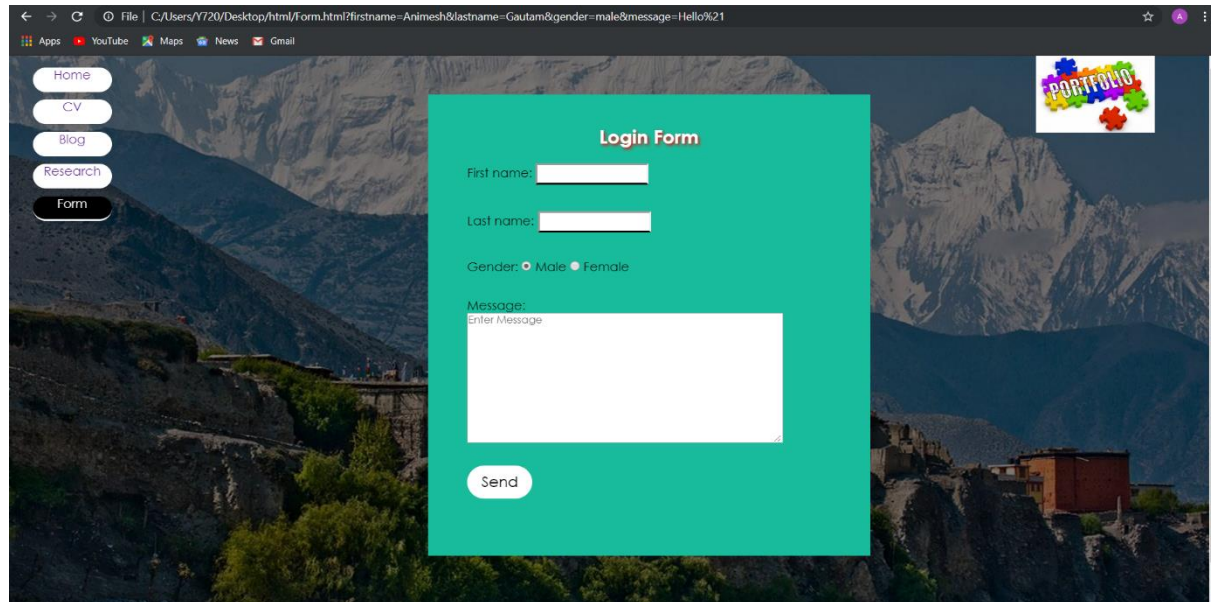
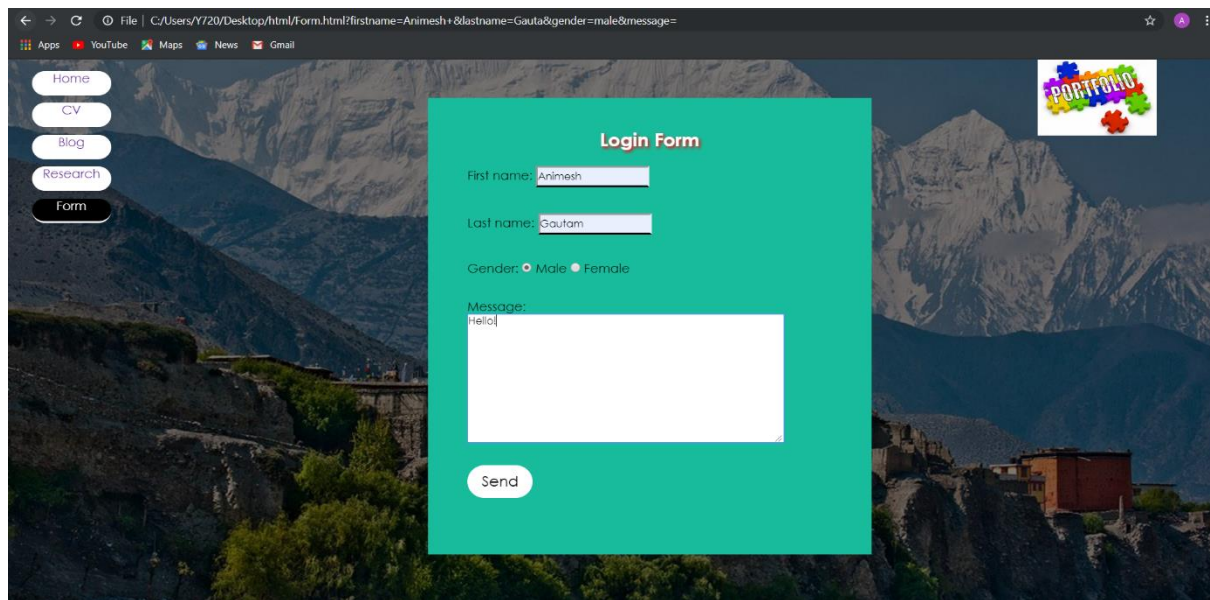*Figure 24- Login Test*
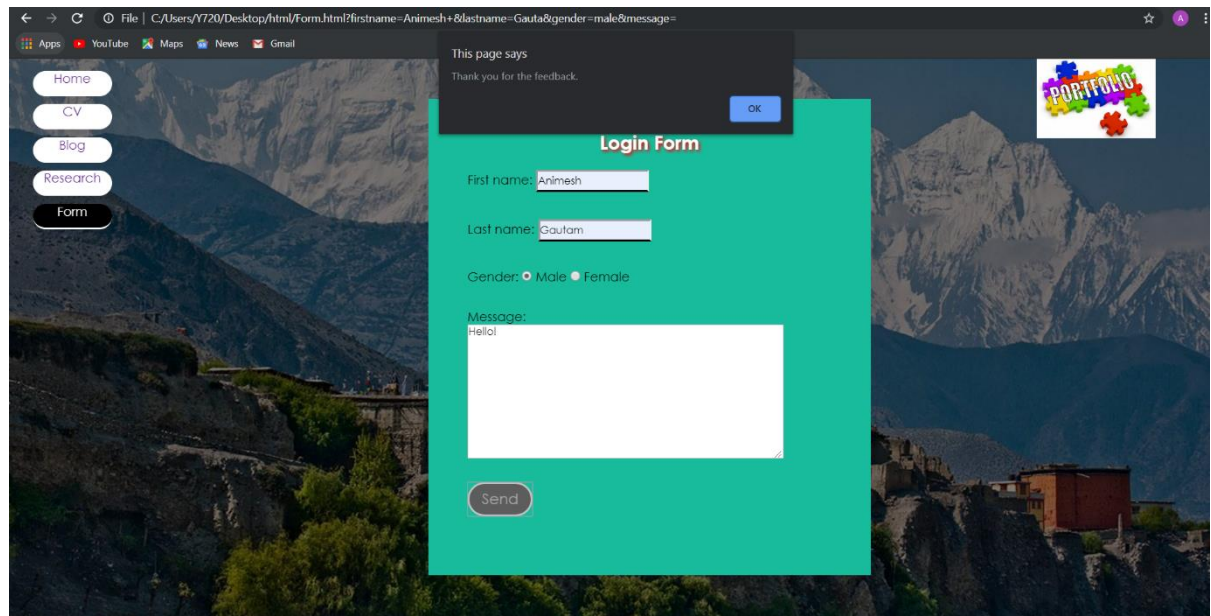
Figure 25-Error Message Popup

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Figure 26-Inputing data
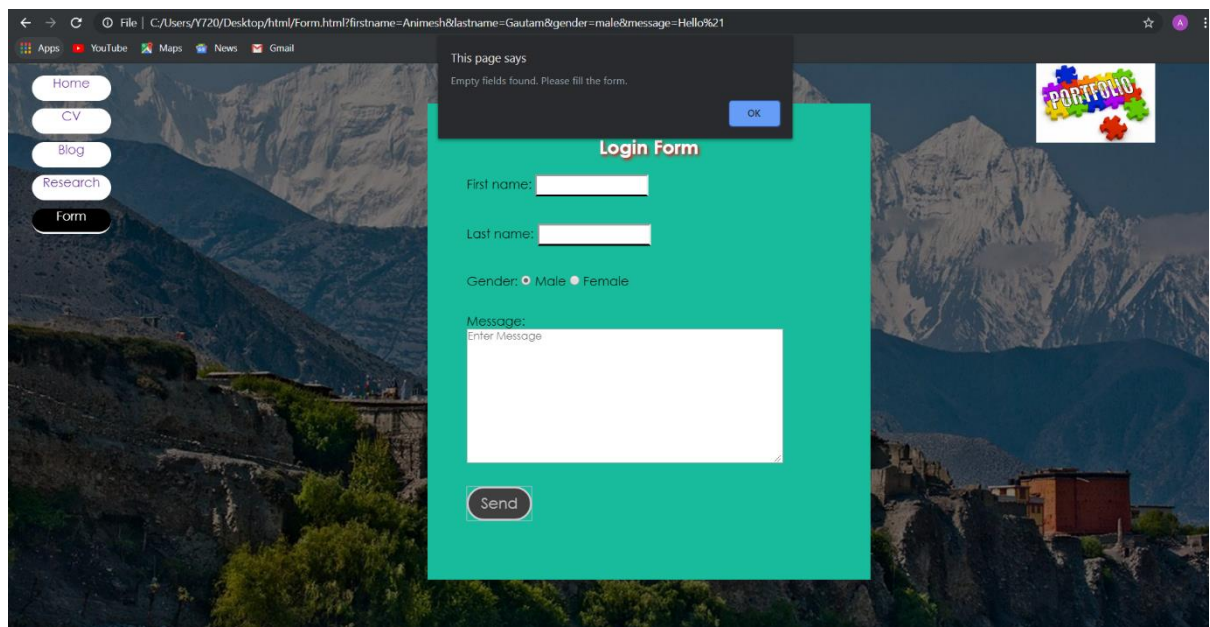

Figure 27-Successful Message Popup

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```
<script>
    function validateForm() {
        var fname = document.forms["messageForm"]["firstname"].value;
        var lname = document.forms["messageForm"]["lastname"].value;
        var gender = document.forms["messageForm"]["gender"].value;
        var message = document.forms["messageForm"]["message"].value;

        if (fname == "" || lname == "" || message == ""){
            alert("Empty fields found. Please fill the form.");
        }
        else {
            alert("Thank you for the feedback.");
        }
    }
</script>
```

Figure 28_Code for Popup Message

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Conclusion

In conclusion, developing website involve a huge step of management process. I made 5 webpages which are Home page, CV page, Blog page, Research page, form page. I made one external css, 5 internal css, and 5 inline css. 5 java script were also included which were for color change, image slider, popup message, time show, and image popup. CSS were used for the designing the webpages. I did a lot of research for the reference of website. I went through lot of videos for developing the website. Help from other websites, tutors were taken. By doing a lot of research and going through many videos I was able to understand the working of different tags, function, and the working of html code. By completing this project, I gained more confidence regarding html, css, and java script. I can now develop a well-designed, responsive, and more interactive. Our objective was to understand the basic Internet technologies, understand the structure of the web sites, simple navigation principles, develop a website so that we can get ideas that can be helpful for our future needs. Now, I have a more clear conception regarding webpages and website and understood the working and can make others understand too. Our goals are that these basic knowledge which we learned are to be sharpened for future use. We should be able to make a well-designed , structured and animated website which might help us in internship, jobs and others filed in upcoming days. This project was all to understand the basic knowledge of html, css and java script which will help me in the development of website of higher classes. After the completion of this project, now I can further learn on those topic without facing major difficulties. I hope this project might help me in the future in any field.

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[Accessed 10 May 2019].

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