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I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a marks of zero will be awarded.

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Introduction

This is the third individual coursework with forty (40) percentage of weightage. This project has been assigned to us students in-order to develop a better understanding of HTML, CSS and JavaScript. My project includes a portfolio website with five pages, a homepage with a navigation bar that guides the individual viewing the website into other four pages which are a CV, blog, a research page and a form. The CV basically is my bio-data, the blog page contains a short and descriptive information about the basic internet technologies and the impact it has made in my daily life. The research page is made in such a way that it displays the components that I used on my website for research purposes. As I am still learning about different components and technologies that are used to make a website, the design that I have come up with for my website might not be best but it still functions properly allowing the user to properly navigate from one page to another.

The primary aim and goal of my project is to portray my skills and understandings towards the topics like elements and tags of HTML such as title, meta, img, table, div, etc. and also to enhance my knowledge about in-line CSS, internal CSS and external CSS along with its various other functions and finally functions and codes of JavaScript. Another main goal of my project is to demonstrate the impacts of technology in our daily lives. For this project, I designed webpages using HTML codes first using sublime text and then added some features to the components of HTML using in-line, internal and external CSS to it later. I also added different JavaScript functions and features like pop-up box, prompt feature, changing component feature, and others.

The major goals and objective of this project are;

- To understand the basic technologies and its impacts in daily lives,
- To design a website using appropriate tools like HTML, CSS, JavaScript,
- To understand the structure of website and simple navigation principle of website,
- To understand the functioning of software like Sublime Text and Balsamiq,
- To completely understand the different tags of HTML, use of in-line, internal and external CSS along with the basics of JavaScript.

Discussion and Analysis

Selected Text Editor

Many text editor are easily available on the internet for free or a minimal cost. Some of the example of these text editor are; Visual Studio Code, Sublime text, Notepad+, Notepad++, and many more. Among all of these text editors I chose Sublime text as I was more familiar to this text editor and found it easy to use in compared to other text editor.

Sublime text made it easier for me to code each webpage for the development of this project or the website. This text editor created an environment where I could easily create a folder and files of HTML, CSS and JavaScript that made it easier and faster to work with. It also provides the user with parameter info and content assistant which reduces the work load on the user and makes it easier to use.

Tools Used While Developing Wireframe

A wireframe is a visual guide that represents the skeletal framework of a website. In general terms it can be defined as the design of the webpage, it shoes where the different elements are located within the page. A wireframe for a website can be made by using MS paint, software like draw.io, and balsamiq.com. Since, wireframes are the design/ layout of a particular webpage it can also be handmade but the handmade wireframes are not seen in most places because the above mentioned tools and software are easy to use and can easily be edited and corrected.

For the development of wireframe, I installed the software named Balsamiq Wireframe. I also visited the site named balsamiq.com for a quick guide. This application contains several ready-made shapes, text, bar, buttons and other required shapes that can be easily transformed into various sizes. So simply by the drag-drop feature available on this software we can easily make wireframe for our webpages.

Explanation of Contents

This project consists of a portfolio which is a website with a total five page which include a home page, a CV with personal details, a blog page that contains information about the development of Internet technologies and its impact on our daily lives, a research page which reflects the research done to develop this website and finally a form page to display the use of JavaScript in this project. A short description of each page of the website is given below;

Home page

This page contents a title page, a header, navigation bar, and a short text. A short description of each component of this page is given below;

- **Title**

The title bar of a webpage is the area which displays the name of the webpage. It is located in the top left of the webpage. Since the title bar keeps the information about the name of the website it was named "Home Page".

- **Header**

The header is the area which consists the overall content of this page. Header is defined inside the `<body>...</body>` tag. It consist of a background image, a greeting text with `<h2>...</h2>` heading which says WELCOME HERE, a navigation bar, and another couple of text which are displayed below. All of these mentioned contents were later modified by the help of CSS.

- **Background image**

Instead of giving some boring and casual background colour to the webpage, I decided to add some aesthetic plain background image which I downloaded from a website called pinterest.com. Using CSS, I decided the properties of the background image.

- **Navigation Bar**

The navigation bar consist of clickable names of every pages. It is placed on the top right corner of the webpage. For the navigation bar I used the anchor tag along with multiple CSS properties, I designed the navigation bar using different CSS features to make it more appealing than before.

- **Text**

Finally, at the centre of the webpage I added my name “Preksha Dahal” and a single line text which sums up my character. For my name I used the `<h1>...</h1>` tag and for another single line text i.e. “Just Another Enthusiast Learner” I used `<h4>...</h4>` tag. Later I used various CSS properties to make my webpage and the components look more attractive.

The wireframe of the Home page I designed and the actual home page are attached below;

- **Wireframe Design**

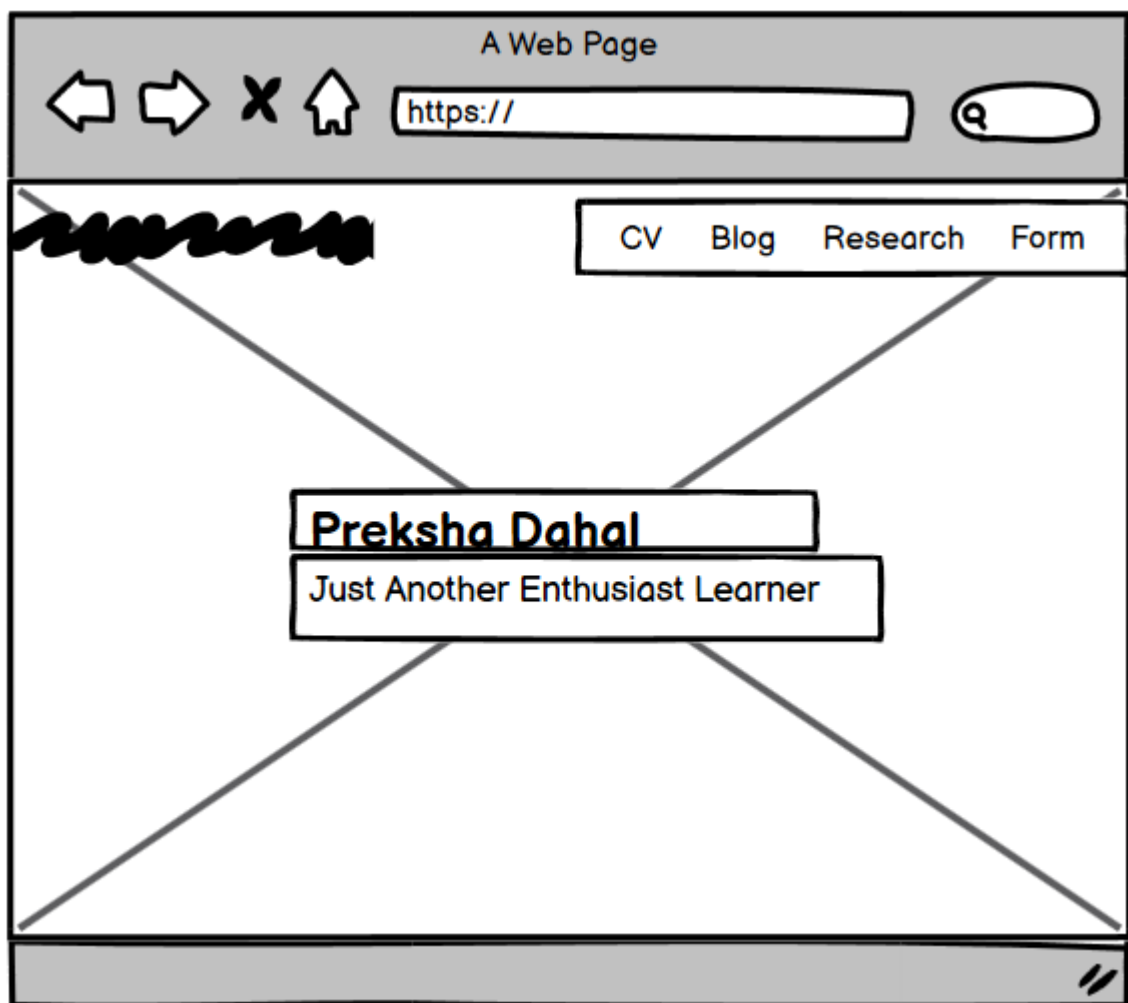


Figure 1: Wireframe for Homepage

- **Actual Homepage**



Figure 2: Actual Homepage Design

CV

This is the second page of the website which consists of a title, navigation bar, a paragraph about personal information, two tables that contain information about education obtained and other necessary personal information and lastly two small series of text with topics Achievements and Employment. A brief discussion of each of those components are given below;

- **Title**

The title bar of a webpage is the area which displays the name of the webpage. It is located in the top left of the webpage. Since the title bar keeps the information about the name of the website it was named "Home Page".

- **Navigation Bar**

The navigation bar consists of clickable names of every page. It is placed on the top right corner of the webpage and consists of Homepage, CV, Research and Forms option. Each button leads to their respective pages. For the navigation bar I used the anchor tag along with multiple CSS properties, I designed the bar using different CSS features to make it more appealing than before.

- **Personal Profile Statement**

This part of CV has a heading that says “Personal Profile Statement” with heading h2. Right after this statement there is a horizontal line drawn using `<hr/>`. After this horizontal line there is a series of paragraph that includes content related to the earlier mentioned heading.

- **Table of Personal Information**

This table consist information like D.O.B. and Nationality. The table is constructed by using tags like `<table>...</table>`, `<tr>...</tr>`, and `<th>...</th>`. Using inline CSS the table width was set to 20% and both the text and table were aligned to the left. An `<hr/>` tag was also used after the construction of the table. The information inside the table was properly displayed using `...` i.e. Ordered lists tag. Many other tags like `` and `<u>` were also used in this segment of webpage.

- **Achievements**

This part of CV has a heading that says “Achievements” with heading h2. Right after this statement there is a horizontal line drawn using `<hr/>`. After this horizontal line there are some line that includes content related to the achievements. `..` tags were also used in this step.

- **Employments**

This part of CV consists of a heading that says “Employments” with heading h2. Right after this statement there is a horizontal line drawn using `<hr/>`. After this horizontal line there are some line that includes content related to the achievements. `..` tags were also used in this step. After completion of this part another `<hr/>` tag was used to draw a horizontal line.

- **Table of Skills**

This table consist information about my skills. The table is constructed by using tags like `<table>...</table>`, `<tr>...</tr>`, and `<th>...</th>`. Using inline CSS the table width was set to 20% and both the text and table were aligned to the left. An `<hr/>` tag was also used after the construction of the table. The information inside the table was properly displayed using `...` i.e. Ordered lists tag. Many other tags like `` and `<u>` were also used in this segment of webpage.

The wireframe of the Home page I designed and the actual home page are attached below;

○ **Wireframe for CV**

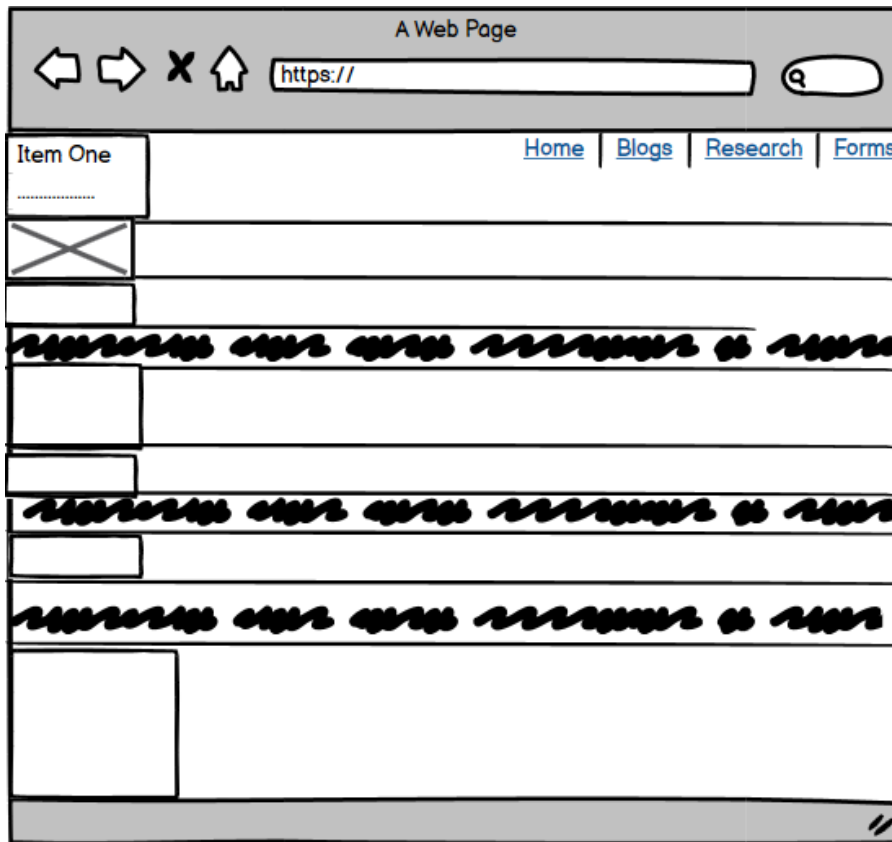


Figure 3: Wireframe for CV

○ **Actual CV**

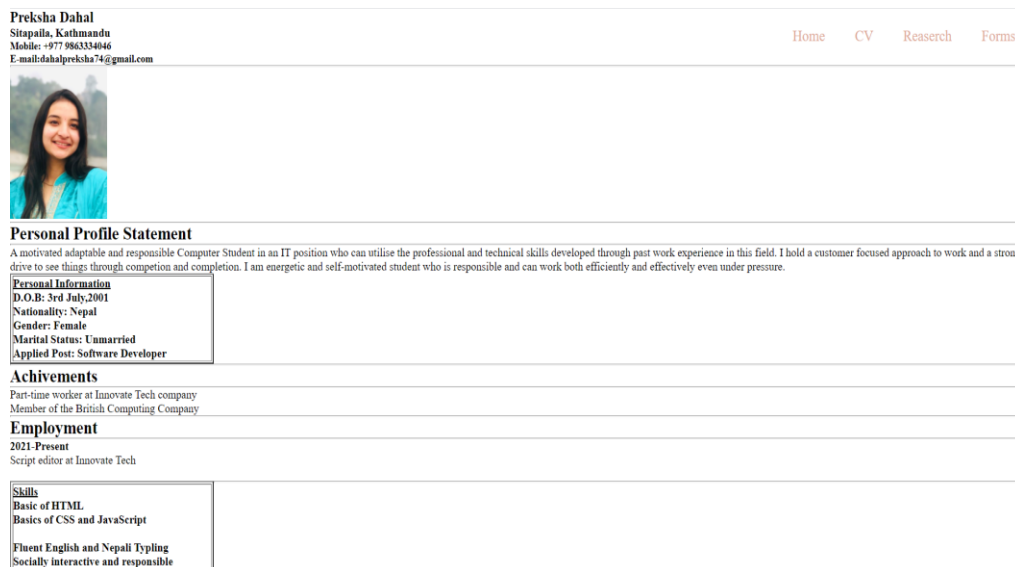


Figure 4: Actual CV page

Blog

This is the third page of the website which consists of a title, navigation bar, heading, a few paragraphs, a background image and a content changing element. A, brief discussion of each of those components are given below;

- **Title**

The title bar of a webpage is the area which displays the name of the webpage. It is located in the top left of the webpage. Since the title bar keeps the information about the name of the website it was named “Blog”.

- **Navigation Bar**

The navigation bar consist of clickable names of every pages. It is placed on the top right corner of the webpage and consists of Homepage, CV, Research and Forms option. Each button leads to their respective pages. For the navigation bar I used the anchor tag along with multiple CSS properties, I designed the bar using different CSS features to make it more appealing than before.

- **Heading**

The header is made by using the <h1> tag and it says “Impact made by Internet and its technology in our daily lives”. Then I changed various its various properties to make the heading look more attractive by using the CSS properties.

- **Text contents**

There are a total four paragraphs inside the body. The paragraphs are kept inside the tag<p>...</p>. All the four paragraphs are placed into a same paragraph as they contain same features like font size, font family and other properties which are manages with the help of CSS.

- **Content changing element**

At the end of this page a content changing attribute is added using the getElementById feature of JavaScript which changes the style of the content and its colour into blue when clicked in the “Change Styles” button.

The wireframe of the Blog page I designed and the actual home page are attached below;

- Wireframe for Blog page

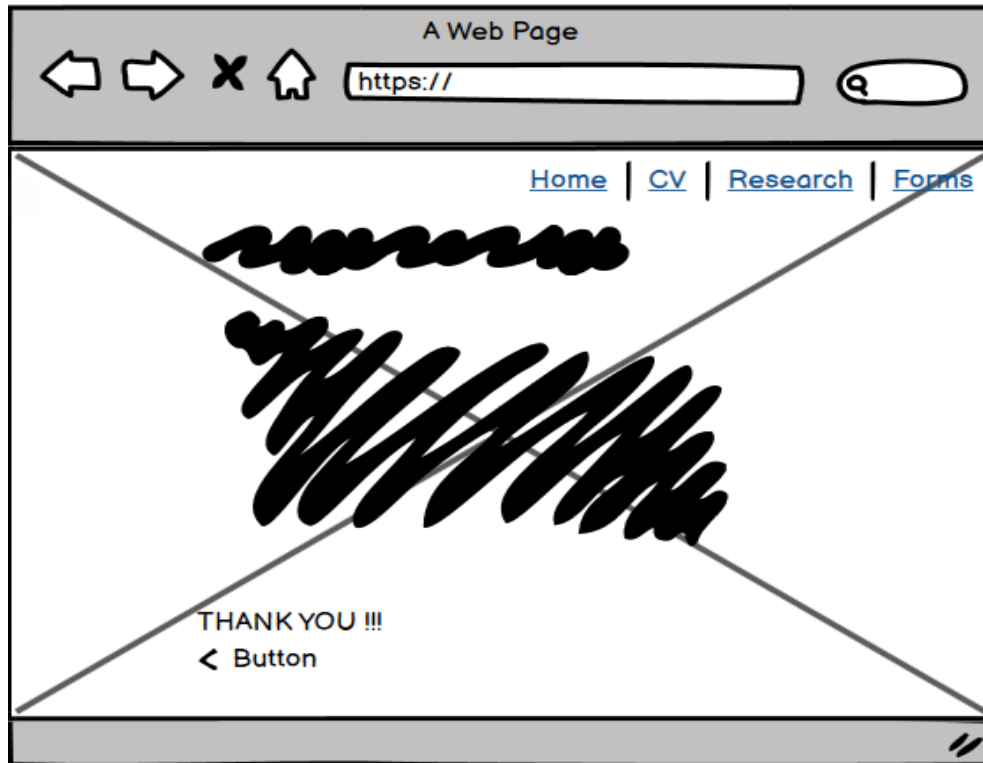


Figure 5: Wireframe of Blogs

- Actual Blog page

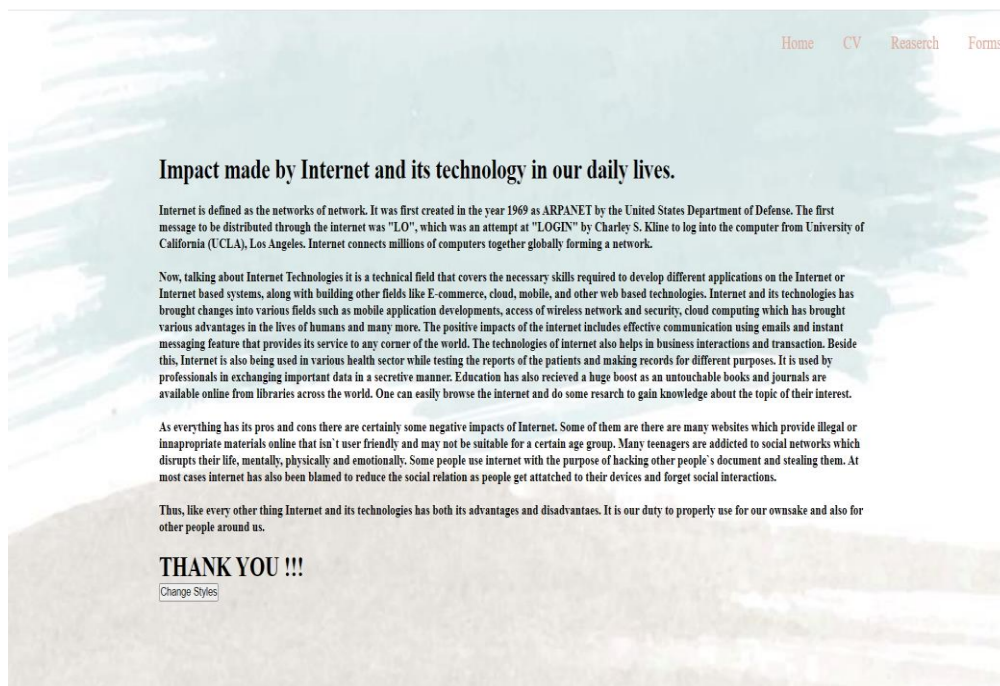


Figure 6: Actual blog page

Research

This is the fourth page of the website which consists of a title, navigation bar, short paragraph and a few images. A, brief discussion of each of those components are given below;

- **Title**

The title bar of a webpage is the area which displays the name of the webpage. It is located in the top left of the webpage. Since the title bar keeps the information about the name of the website it was named “Research”.

- **Navigation Bar**

The navigation bar consist of clickable names of every pages. It is placed on the top right corner of the webpage and consists of Homepage, CV, Blogs and Forms option. Each button leads to their respective pages. For the navigation bar I used the anchor tag along with multiple CSS properties, I designed the navigation bar using different CSS features to make it more appealing than before.

- **Paragraph**

In this page total two paragraphs has been applies. One is right after the navigation bar and another is at the end of the webpage. The additional features like font-style and font-page has been used in external CSS.

- **Images**

There are total three images used in this page each of different height and width. The height and width of each of the image is defined in the HTML. Other properties like align and padding has also been used to properly design this webpage.

The wireframe of the Blog page I designed and the actual home page are attached below;

- Wireframe for Blog page

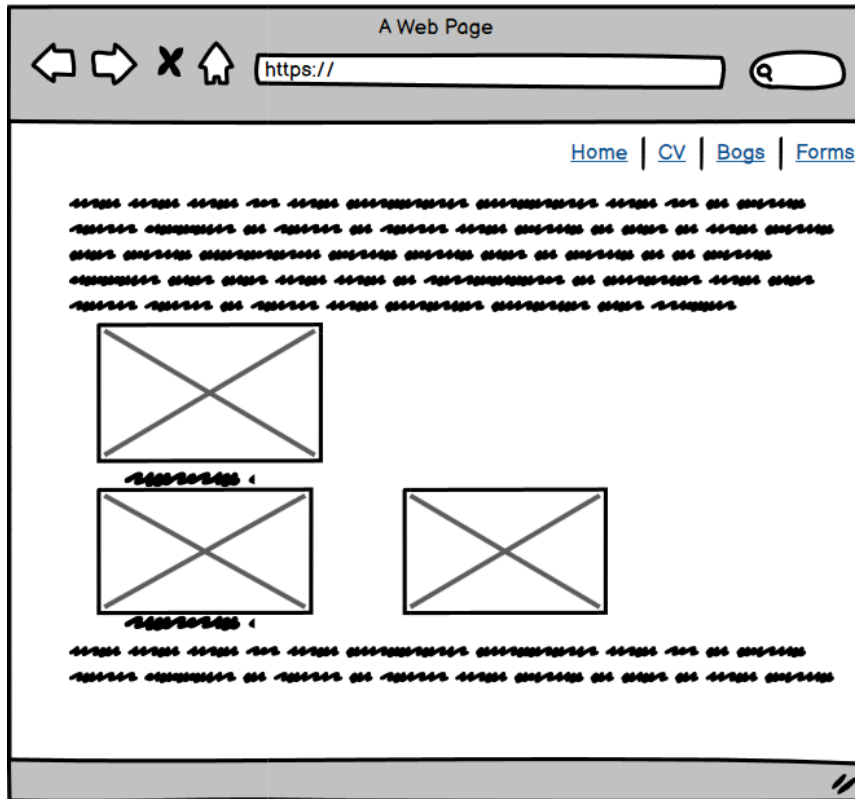


Figure 7: Wireframe of Research page

- Actual Research page

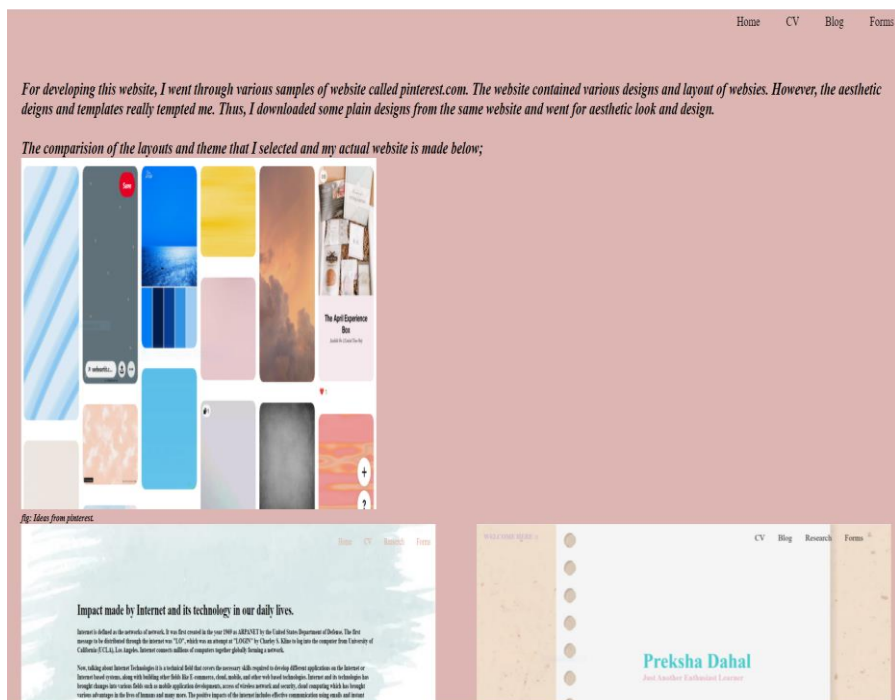


Figure 8: Actual Research page

Forms

This is the fifth and the final page of the website which consists of a title, navigation bar, a pop-up feature, a form to be filled and. A, brief discussion of each of those components are given below;

- **Title**

The title bar of a webpage is the area which displays the name of the webpage. It is located in the top left of the webpage. Since the title bar keeps the information about the name of the website it was named “Forms”.

- **Navigation Bar**

The navigation bar consist of clickable names of every pages. It is placed on the top right corner of the webpage and consists of Homepage, CV, Blogs and Forms option. Each button leads to their respective pages. For the navigation bar I used the anchor tag along with multiple CSS properties, I designed the navigation bar using different CSS features to make it more appealing than before.

- **Pop-up feature**

This feature is added to the website by using alert function of JavaScript. This features also uses `<script>...</script>` feature to use the JavaScript.

- **A form**

This is the interesting part of the website. Here is a form which asks details about the person who visited the website.

The wireframe of the Blog page I designed and the actual home page are attached below;

- **Wireframe for Form page**

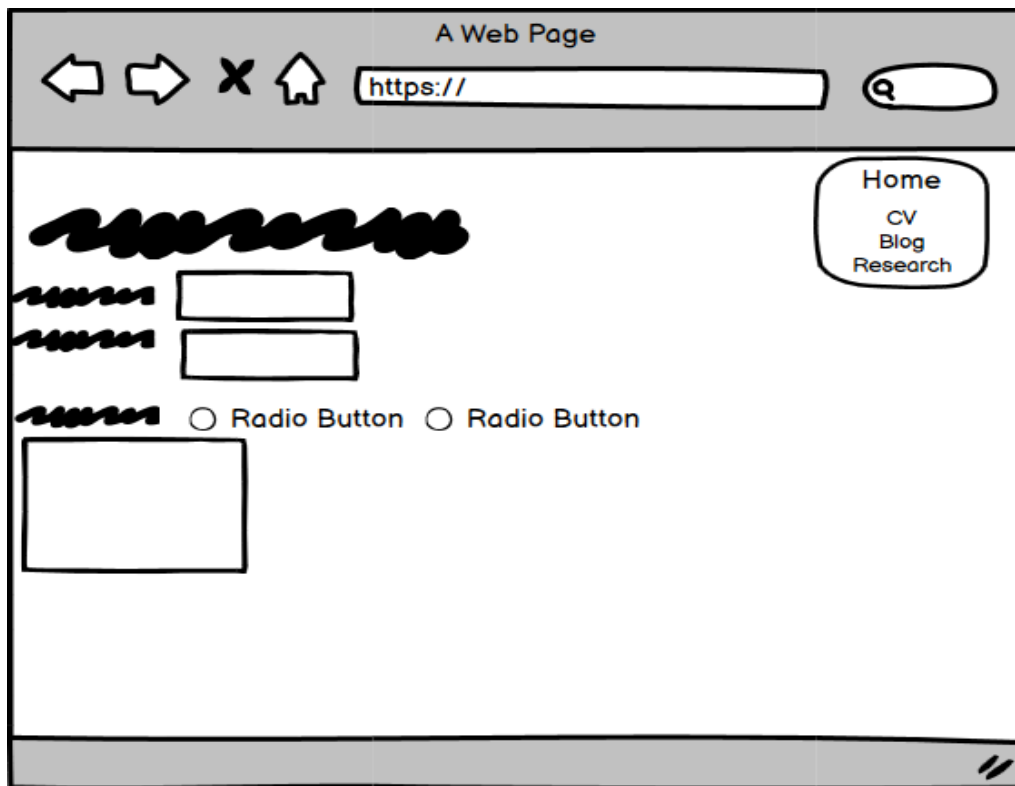


Figure 9: Wireframe of Form

- **Actual Form page**

Form Validation

First Name :

Last Name :

Genders: ☐ Male ☒ Female

Message:

Home
CV
Blog
Research

Figure 10: Actual Form page

Testing

Test: 1

Objective	To check if the pop-up feature of JavaScript work properly or not by checking the pop-ups
Action	While designing the form page a JavaScript function named " <i>alter</i> " was used to make a pop-up box.
Expected Result	While navigating the form page a box with a message appears into the screen that says "Hello Visitor, Welcome to this page 😊"
Actual Result	The pop-up successfully appeared right after navigating the form page.
Test Result	The test was successful.

Table 3: TEST 1 [Pop-ups]

```
<script type="text/javascript">
    alert("Hello Visitor,Hope you have a wonderfull day :)"); /*
    This statement basically displays a pop-up box*/
</script>
```

Figure 11: Code using alert

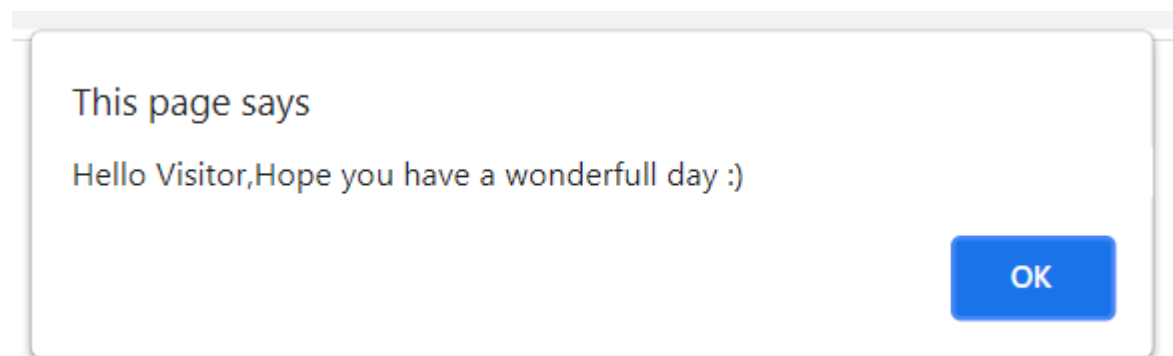


Figure 12: Pop-up feature

Test: 2

Objective	To check if the content changing element functions properly or not.
Action	The code sh
Expected Result	While navigating the form page a box with a message appears into the screen that says “Hello Visitor, Welcome to this page ☺”
Actual Result	The pop-up successfully appeared right after navigating the form page.
Test Result	The test was successful.

Table 4: Test: 2 [Content changing]

```

<h1 id="button">THANK YOU !!!</h1>
<button onclick="change()">Change Styles</button> <!--Adding Changing content to the website.-->
<script type="text/javascript"> /** Use of internal JavaScript*/
    function change(){
        var element = document.getElementById("button");
        element.innerHTML = "THE END!!!";
        element.style.color = "Blue";
    }
</script>

```

Figure 13: Code demonstrating the use content changing

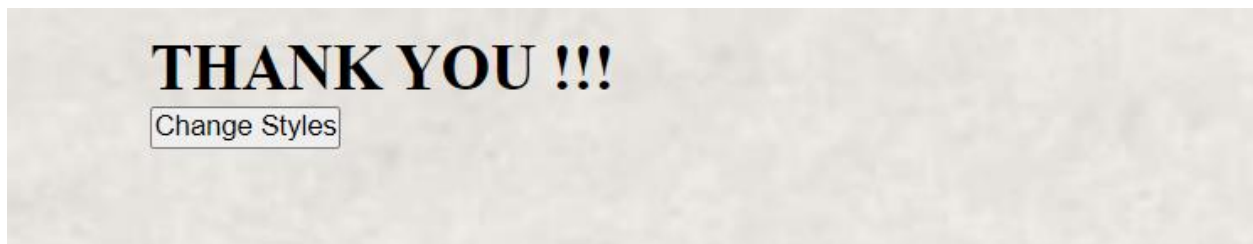


Figure 14: Before pressing the "Change Style" button

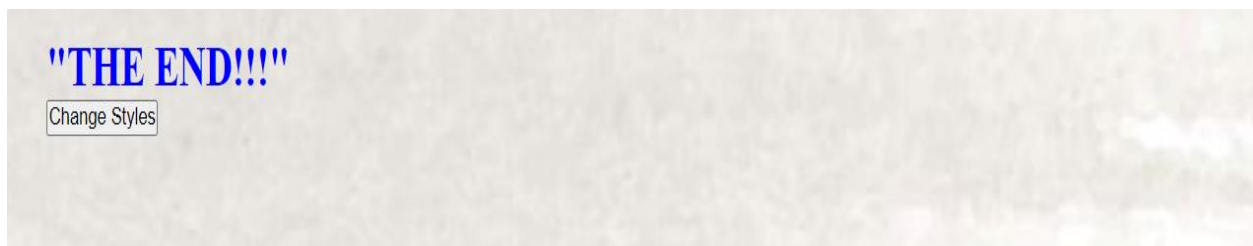


Figure 15: After pressing the "Change Styles" button

Test: 3

Objective	To check if the text in the forms can be added properly or not.
Action	A form was created using <form>...</form> to keep record of individuals.
Expected Result	The form should be able to accept the text properly.
Actual Result	The form was able to accept the text properly.
Test Result	The test was successful.

Table 3: Test 3 [Form Submission checking]

```

<h1 style="color: #000;">Form Validation</h1>
<form name="Validationform" onsubmit="validation()"><br></br>
  <b>First Name : </b> <input type="text" name="fname"><br><br>
  <b>Last Name : </b><input type="text" name="lname"><br><br>
  <b>Gender:</b><input type="radio" name="gender" value="male">
  Male
  <input type="radio" name="gender" value="female" checked>
  Female<br><br>

  <b> Message:</b><br>
  <textarea name="message" placeholder="enter message" cols="40"
  rows="20"></textarea><br>
  <input type="Submit" name="" value="Submit">
  </br>
</form>

```

Figure 16: Action taken to make the form

Form Validation

First Name :

Last Name :

Gender: ☐ Male ☒ Female

Message:

Hello

Figure 17: Result of the code written to make a form

Test: 4

Objective	To check if the background images are inserted properly or not.
Action	Code was written in the Html using and source was specified.
Expected Result	An image should be displayed with the specified properties.
Actual Result	The background image was successfully displayed with the specified properties.
Test Result	The test was successful.

Table 4: Test 4[Test for background image]

```
<hr/>
```

Figure 18: Code for adding image

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Figure 19: The result of Test: 4

Test: 5

Objective	To check if the text in the forms can be added properly or not.
Action	A form was created using <form>...</form> to keep record of individuals.
Expected Result	The form should be able to accept the text properly.
Actual Result	The form was able to accept the text properly.
Test Result	The test was successful.

Table 5: Test: 5[To check the functioning of Navigation area]

```
<ul>
  <li><a href="Home Page.html">Home</li></a>
  <li><a href="CV.html">CV</li></a>
  <li><a href="Blog.html">Blog</li></a>
  <li><a href="Forms and Contacts.html">Forms</li></a>
</ul>
```

Figure 20: Code for adding the navigation bar

```
ul{
  font-size: 25px;
  float: right; /*To display the links on the right side of the page*/
  list-style-type: none;
  margin-top: 25px;
}

ul li{
  display: inline-block; /*To display the links side by side*/
}

ul li a{
  text-decoration: none; /*Defining the properties of navigation bar*/
  color: #000;
  padding: 5px 20px;
  border: 1px solid #000 transparent;
  transition: 0.6s ease;
}
```

Figure 21: CSS code of Navigation bar

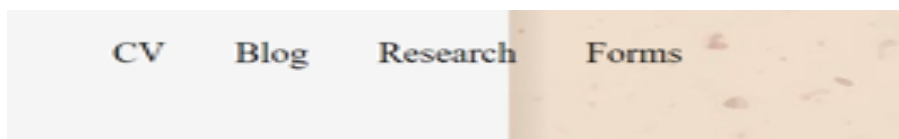


Figure 22: Navigation Bar

Conclusion

In this coursework, I have made a website (portfolio) with five pages that includes a homepage, CV, Blogs, Research and a form. Each page in the website has a navigation bar and can be properly navigated. I studied the lecture slides properly and did some research about the codes in websites like w3schools, and researchgate.

Though there were many other application that could be used for writing the codes, I used the application named Sublime text as it was the one I was more familiar with and for constructing the wireframe, I used an application named Balsamiq Wireframes. I also tried covering all the tags and properties in the codes.