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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 mark of zero will be awarded.

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Introduction

Web development is the building and maintenance of websites; it's the work that happens behind the scenes to make a website look great, work fast and perform well with a seamless user experience. Web developers, do this by using a variety of coding languages. The languages they use depends on the types of tasks they are performing and the platforms on which they are working. Web development skills are in high demand worldwide and well paid too – making development a great career option. It is one of the easiest accessible higher paid fields as you do not need a traditional university degree to become qualified. The field of web development is generally broken down into front-end (the user-facing side) and back-end (the server side). Let's delve into the details.

A front-end dev takes care of layout, design and interactivity using HTML, CSS and JavaScript. They take an idea from the drawing board and turn it into reality. What you see and what you use, such as the visual aspect of the website, the drop-down menus and the text, are all brought together by the front-end dev, who writes a series of programmes to bind and structure the elements, make them look good and add interactivity. These programmes are run through a browser.

The backend developer engineers what is going on behind the scenes. This is where the data is stored, and without this data, there would be no frontend. The backend of the web consists of the server that hosts the website, an application for running it and a database to contain the data. The backend dev uses computer programmes to ensure that the server, the application and the database run smoothly together. This type of dev needs to analyse what a company's needs are and provide efficient programming solutions. To do all this amazing stuff they use a variety of server-side languages, like PHP, Ruby, Python and Java. (marionletendart, 2018)

Web technology:

Web Technology is essential today because Internet has become the number one source to information, and many of the traditional software

applications have become Web Applications. Web Applications have become more powerful and can fully replace desktop application in most situations. That's why you need to know basic Web Programming, including HTML, CSS and JavaScript. (HBlog, n.d.)

We know that computer systems don't communicate with each other the way human does. Instead, it calls for codes, or directions. These binary codes and instructions permit computer systems to system wanted information. Every second, billions of ones and zeros are processed on the way to offer with the information you need. The methods through which computer systems communicate with each other via the usage of markup languages and multimedia programs is referred to as web technology.

HTML:

HTML (Hypertext Markup Language) is the most basic building block of the Web. It defines the meaning and structure of web content. Other technologies besides HTML are generally used to describe a web page's appearance/presentation (CSS) or functionality/behaviour (JavaScript). (MDN Web Docs, n.d.)



Figure 1 Logo of HTML

CSS:

Cascading Style Sheets, fondly referred to as CSS, is a simply designed language intended to simplify the process of making web pages

presentable. CSS allows you to apply styles to web pages. More importantly, CSS enables you to do this independent of the HTML that makes up each web page. (GeeksforGeeks, n.d.)



Figure 2 Logo of CSS

Java Script:

JavaScript is a very powerful client-side scripting language. JavaScript is used mainly for enhancing the interaction of a user with the webpage. In other words, you can make your webpage livelier and more interactive, with the help of JavaScript. JavaScript is also being used widely in game development and Mobile application development. (Guru99, 2021)



Figure 3 Logo of Java Script

Sublime text:

Sublime Text Editor is a full featured Text editor for editing local files or a code base. It includes various features for editing code base which helps

developers to keep track of changes. Various features that are supported by Sublime are as follows –

- Syntax Highlight
- Auto Indentation
- File Type Recognition
- Sidebar with files of mentioned directory
- Macros
- Plug-in and Packages (tutorialspoint, n.d.)



Sublime Text

Figure 4 Figure of Sublime Text

Web site design, specification and implementation of the website

Home:

Home is the first page of my website. It includes a navigation bar that is linked with the other pages of the website and homepage includes an image background with a textual content and photo in the centre of the webpage. This web page was designed by using HTML and linking the CSS with the HTML. Different attributes were used along with comment in HTML and use of external CSS and inline CSS along with the comment is used in the CSS.

CV:

CV is the second page of my website. It includes a background image and a navigation bar and also information is written in a box. Similar to the Home page it was also designed by using HTML and linking CSS with the HTML. Different attributes were used along with comment in HTML and use of external CSS and inline CSS along with the comment is used in the CSS.

Blog:

Blog is the second page of my website. It includes a background image and a navigation bar and also the impact of information technology in day-to-day life of every individual is written. Similar to the Home page it was also designed by using HTML and linking CSS with the HTML. Different attributes were used along with comment in HTML and use of external CSS and inline CSS along with the comment is used in the CSS.

Research:

Research is the second page of my website. It includes a background image and a navigation bar and also the source from where I researched about creating my website is written. Similar to the Home page it was also designed by using HTML and linking CSS with the HTML. Different attributes were used along with comment in HTML and use of external CSS and inline CSS along with the comment is used in the CSS.

Contact:

Contact is the last page of my website. It includes a navigation bar and it is the most advanced and complicated page. It was also designed by using HTML, linking CSS with the HTML and Java Script comments with if function and also a pop-up feature is included in the page. Different attributes were used along with comment in HTML and use of external CSS and inline CSS along with the comment is used in the CSS.

Goals and Objectives

The main objective of this course is to provide students with an understanding of technology and internet. Through this coursework, we were required to develop a website which will help us collect and analyse the various impacts of technology on our daily life. When designing the website appropriate tools and technologies are used. And also, java script language was used on web page. On the form of portfolio this website is designed.

This website contains five web pages that are homepage, blogs page, cv page, work page and contact page. Each page is linked with each other. These web sites are designed in Sublime Text by the use of HTML, CSS and JavaScript. The blog section consists of the articles explaining the effect of technology in our day by day lives. The research section consists of the webpages from where I actually have taken reference of my website. The Contact section contains the form validation that is made with HTML, CSS and JavaScript. It improves interaction with different present web sites. It allows to make the website extra accessible.

Wireframe

Wireframing is a practice used by UX designers which allows them to define and plan the information hierarchy of their design for a website, app, or product. This process focuses on how the designer or client wants the user to process information on a site. (Allabarton, 2021)

Home page:

This is the first page of my web site. Here I have inserted navigation bar, background image and inserted my photo in middle and written small information about me.

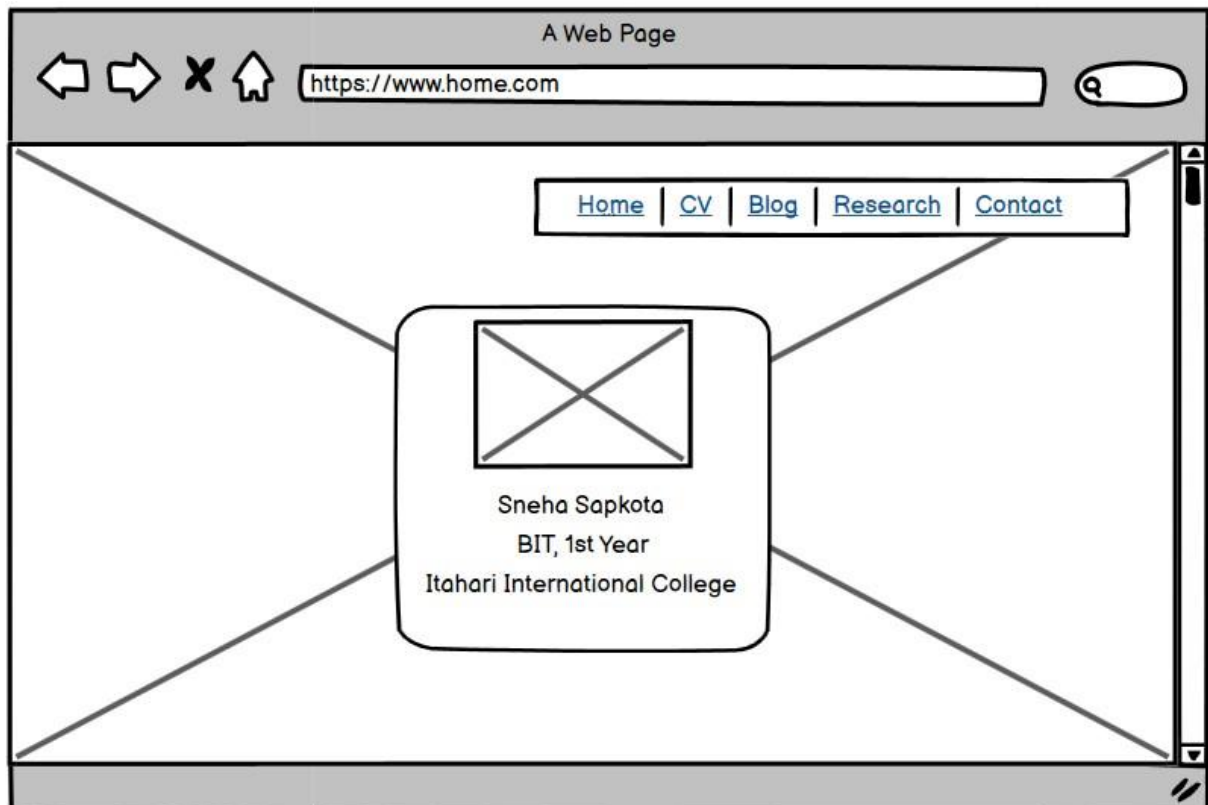


Figure 5 Wireframe of Home page

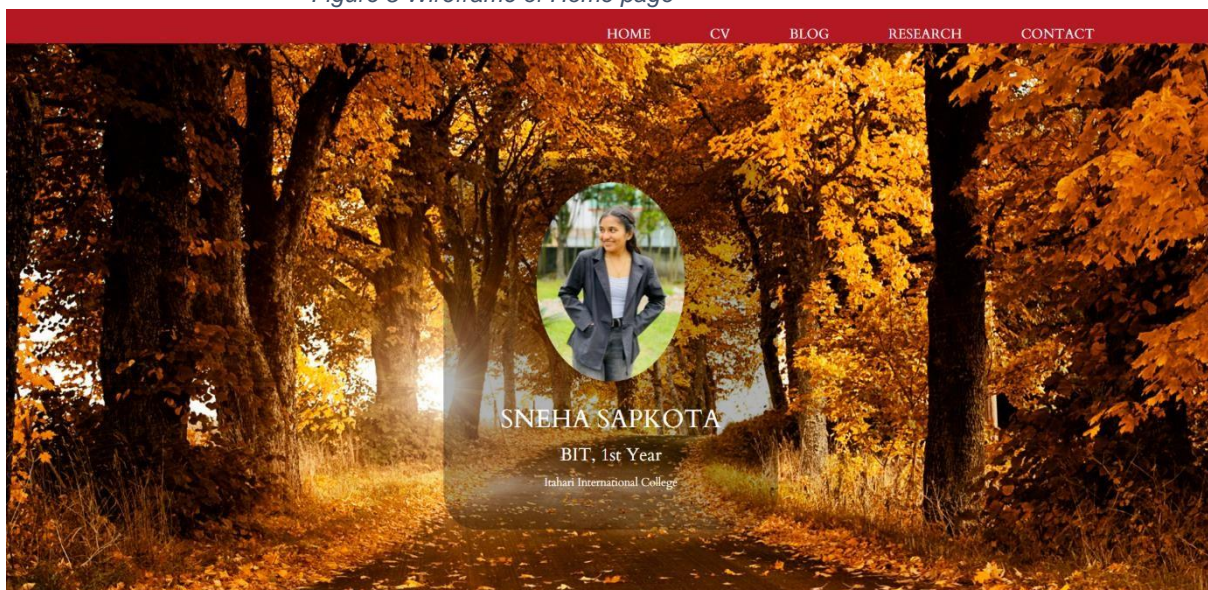


Figure 6 Website of Home page

CV page:

This is the second page of my website. Here I have inserted navigation bar, background image and inserted my photo in left corner and written information about me on middle.

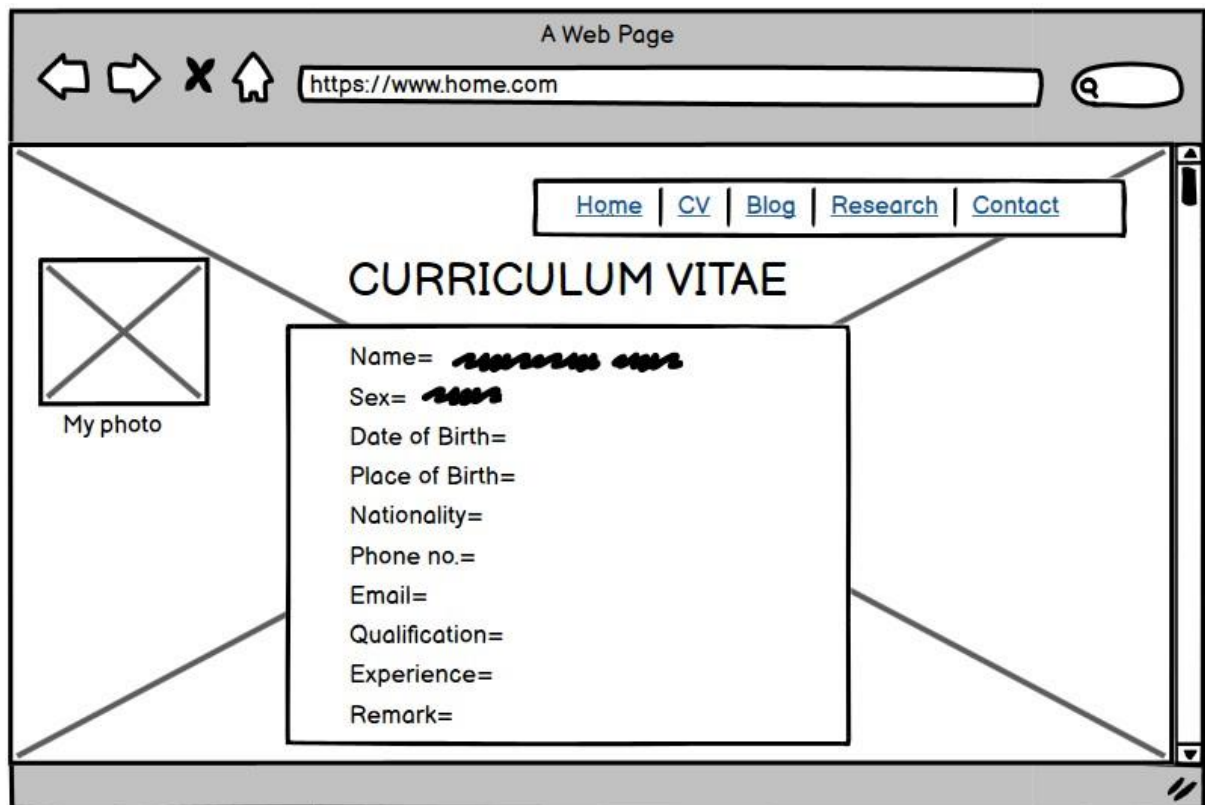


Figure 7 Wireframe of CV page

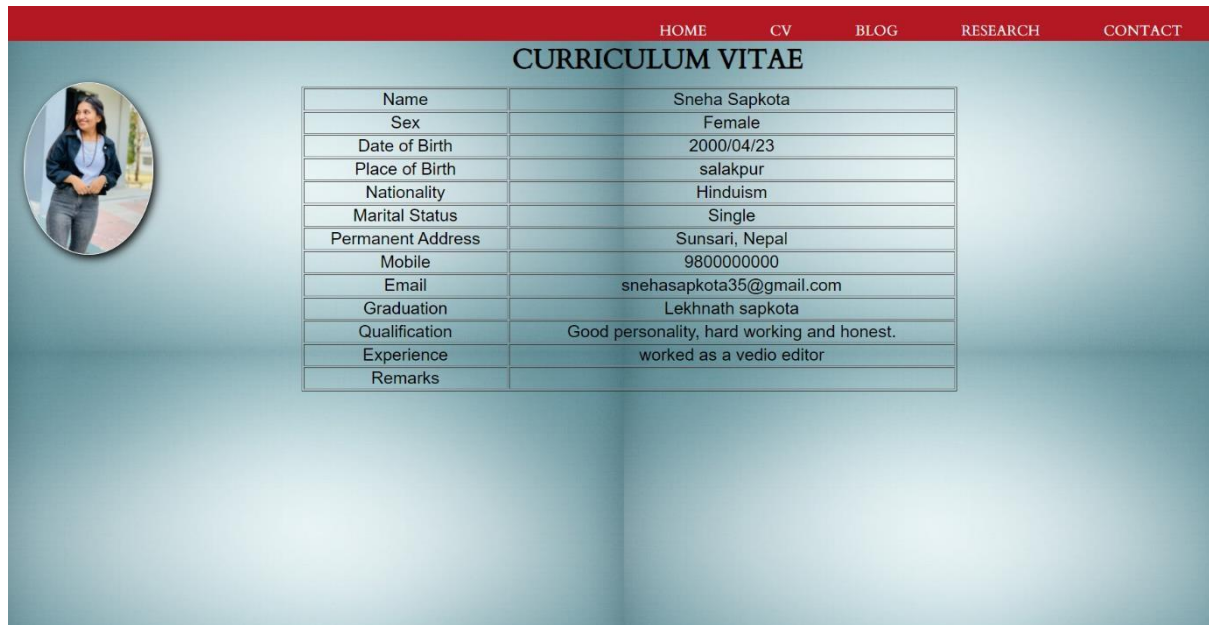


Figure 8 Website of CV page

Blog page:

This is the third page of my web site. Here I have inserted navigation bar, background image. It consists of big tittle as the heading portion and block of text as the paragraph portion. Here, a paragraph is written about the “Technology in everyday life” is written on the middle.

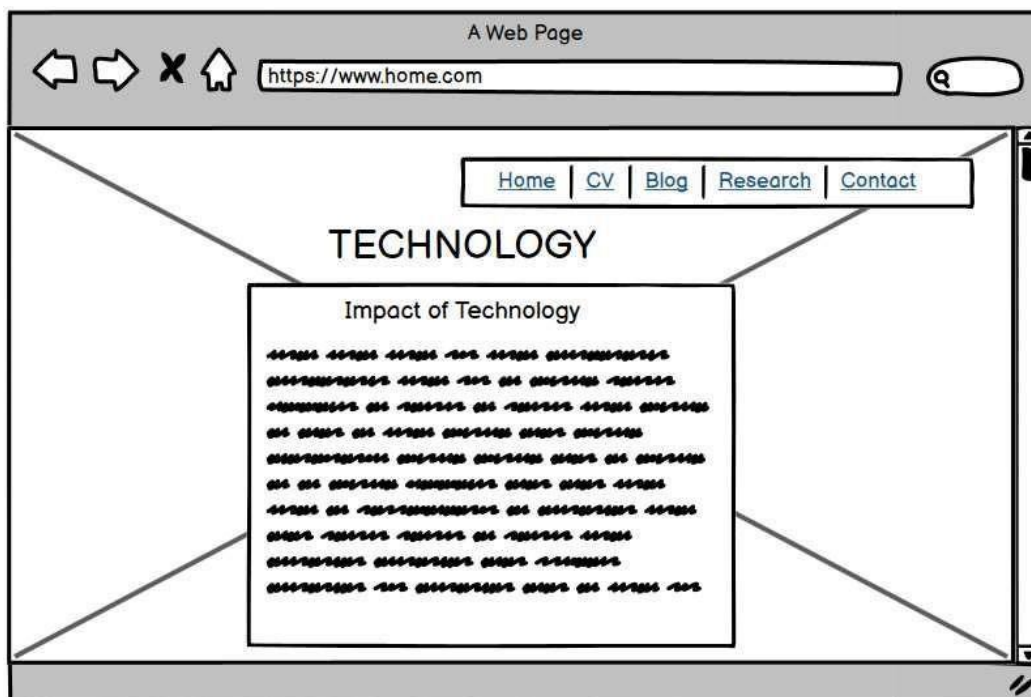


Figure 9 Wireframe of Blog page



Figure 10 Website of Blog page

Research page:

This is the fourth page of my web site. Here I have inserted navigation bar, background image. I have shown the pages I have researched.

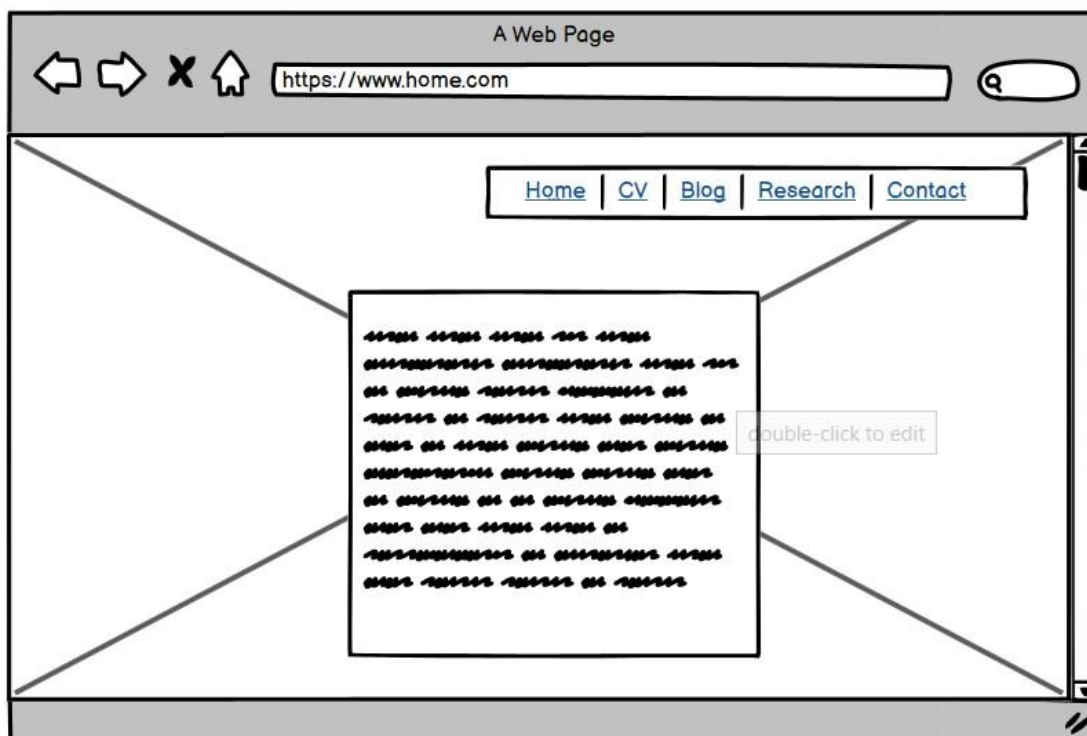


Figure 11 Wireframe of Research page

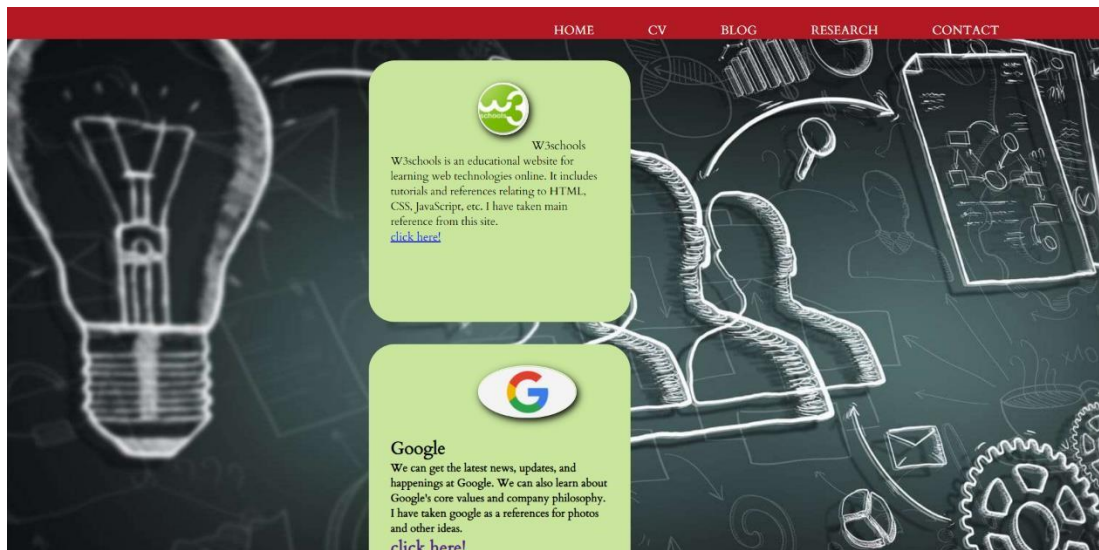


Figure 12 Website of Research page

Contact page:

This is the last page of my web site. Here I have inserted navigation bar, background. It is a form which can be helpful for any queries.

Figure 13 Wireframe of Contact page

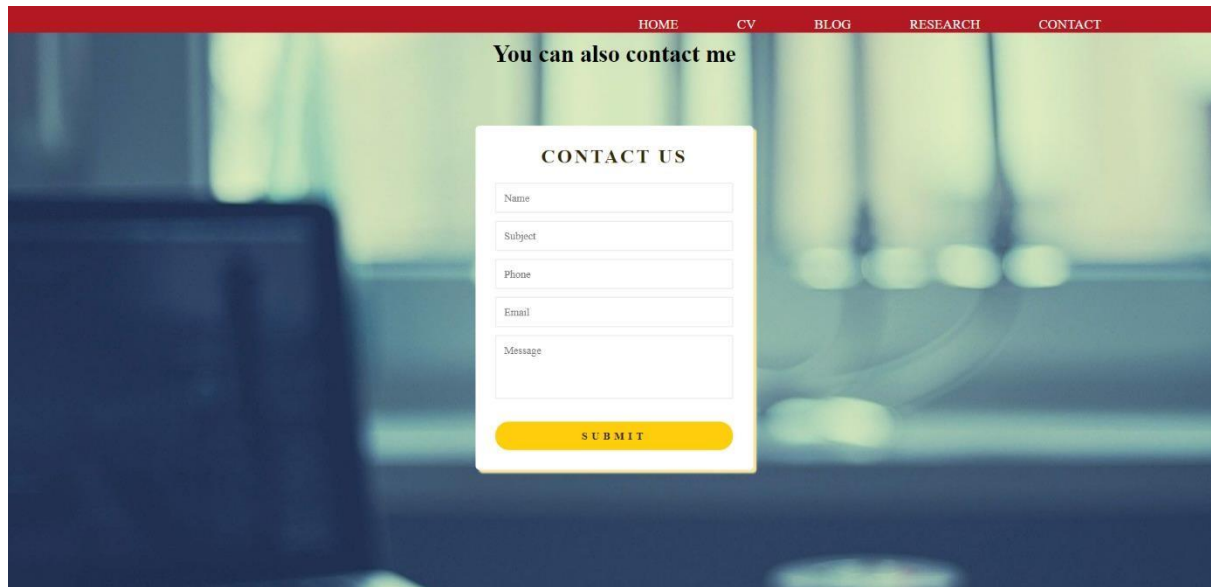


Figure 14 Website of Contact page

Testing

Test 1

OBJECTIVE	Checking whether navigation bar run or not.
ACTION	Click on blog button.
EXPECTED RESULT	When user clicked on blog button, blog page opens.
ACTUAL RESULT	Blog page opened when blog button is clicked.
CONCLUSION	Test was failed.

Table 1 Testing navigation bar

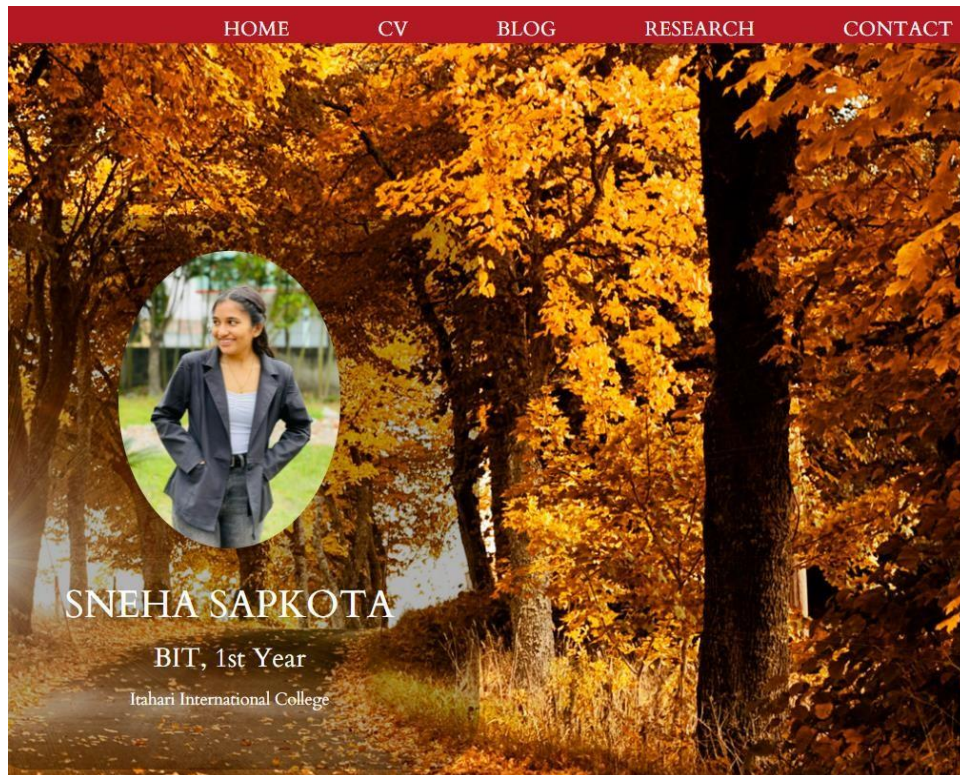


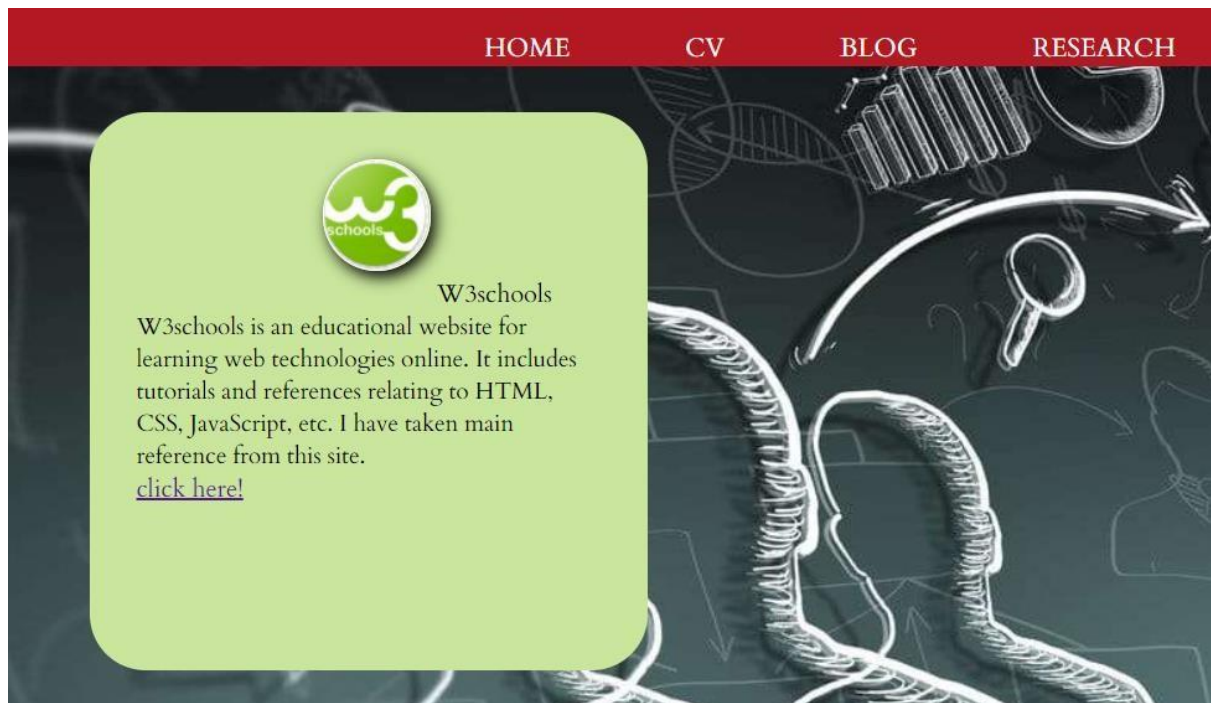
Figure 15 Clicking on Blog page



Figure 16 Opening of Blog page

Test 2

OBJECTIVE	Checking whether the research page website works or not.
ACTION	While clicking on click here its website should open
EXPECTED RESULT	Website will open.
ACTUAL RESULT	Website is opened.
CONCLUSION	Test was failed.

Table 2 Testing website*Figure 17 Clicking on click here*

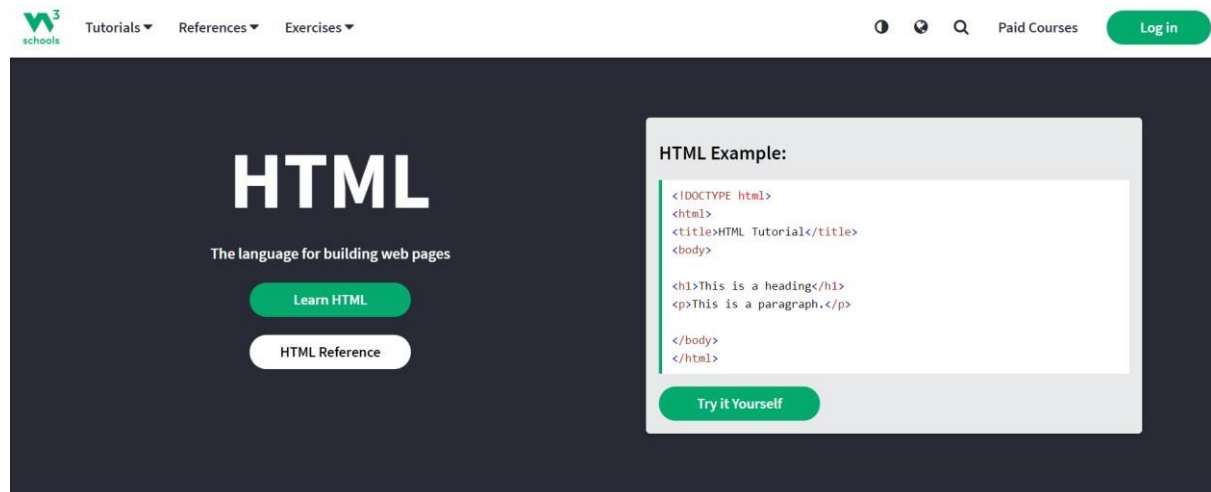


Figure 18 opening website

Test 3

OBJECTIVE	Check Whether the hover effect works or not.
ACTION	Cursor was taken to the home bar.
EXPECTED RESULT	Hover effect slide from left to right.
ACTUAL RESULT	Hover effect was seen sliding from left to right.
CONCLUSION	Test was failed.

Table 3 Testing hover effect

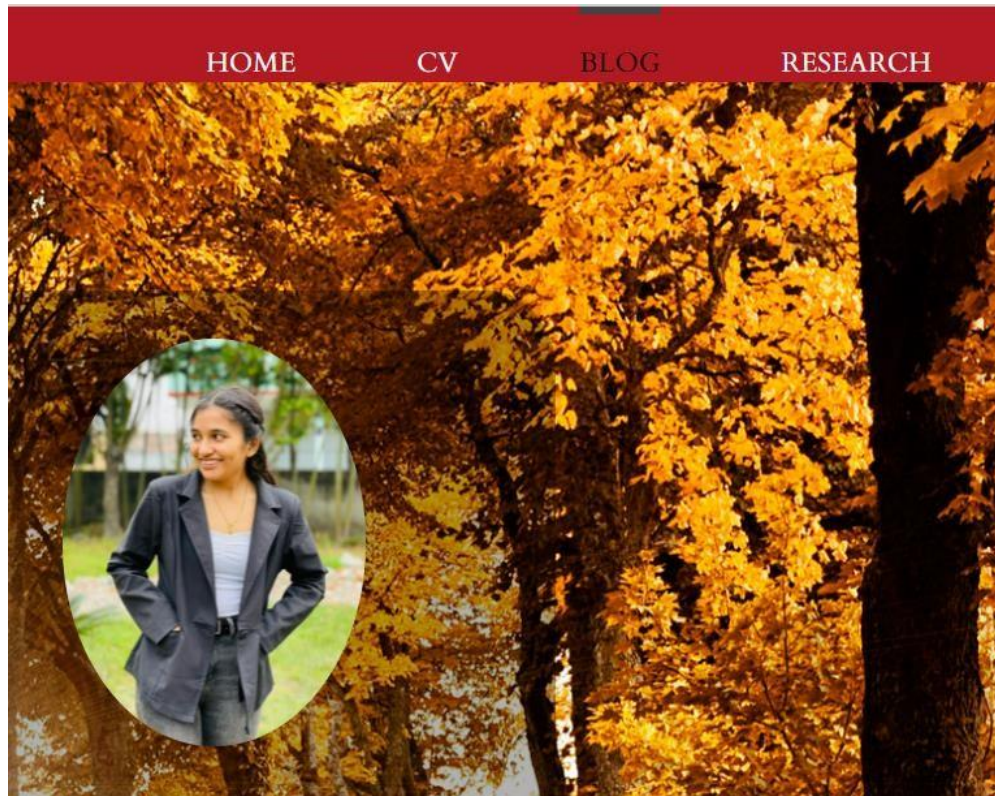


Figure 19 Working of Hover effect

Test 4

OBJECTIVE	Check Whether the display occur or not.
ACTION	While entering the name, display occur.
EXPECTED RESULT	Display will occur.
ACTUAL RESULT	Display occurs.
CONCLUSION	Test was failed.

Table 4 Testing display

The image displays a web page with a red navigation bar at the top containing the links: HOME, CV, BLOG, RESEARCH, and CONTACT. Below the navigation bar, the text "You can also contact me" is displayed. The main content area features a white contact form titled "CONTACT US". The form includes five input fields: "Name", "Subject", "Phone", "Email", and "Message". At the bottom of the form is a yellow "SUBMIT" button. The background of the page is a blurred image of a person's legs.

HOME CV BLOG RESEARCH CONTACT

You can also contact me

CONTACT US

Name

Subject

Phone

Email

Message

SUBMIT

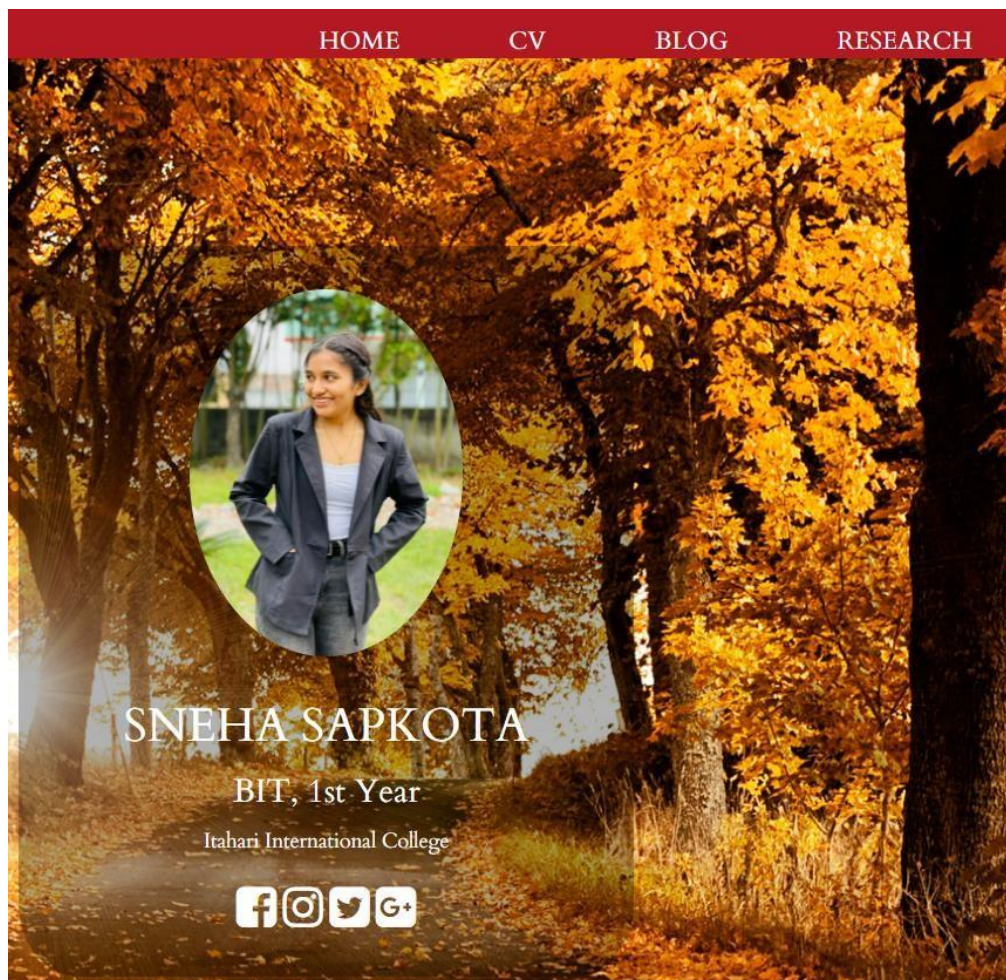
Figure 20 Testing display

The image shows a web page with a red navigation bar at the top containing the links: HOME, CV, BLOG, RESEARCH, and CONTACT. Below the navigation bar, the text "You can also contact me" is displayed. The main content area features a white contact form titled "CONTACT US". The form includes a "Name" dropdown menu with the following options: "Saved data", "Alina Gurung", "Manika Gurung", and "Sneha Sapkota". Below the name dropdown is a "Message" text input field. At the bottom of the form is a yellow "SUBMIT" button. The background of the page is a blurred image of a person's legs.

Figure 21 Result of display

Test 5

OBJECTIVE	Check Whether the link button opens or not.
ACTION	Clicked on the Facebook logo in home page.
EXPECTED RESULT	Facebook page will open.
ACTUAL RESULT	Facebook page opened.
CONCLUSION	Test was failed.

Table 5 Testing link button*Figure 22 Clicking on Instagram logo*

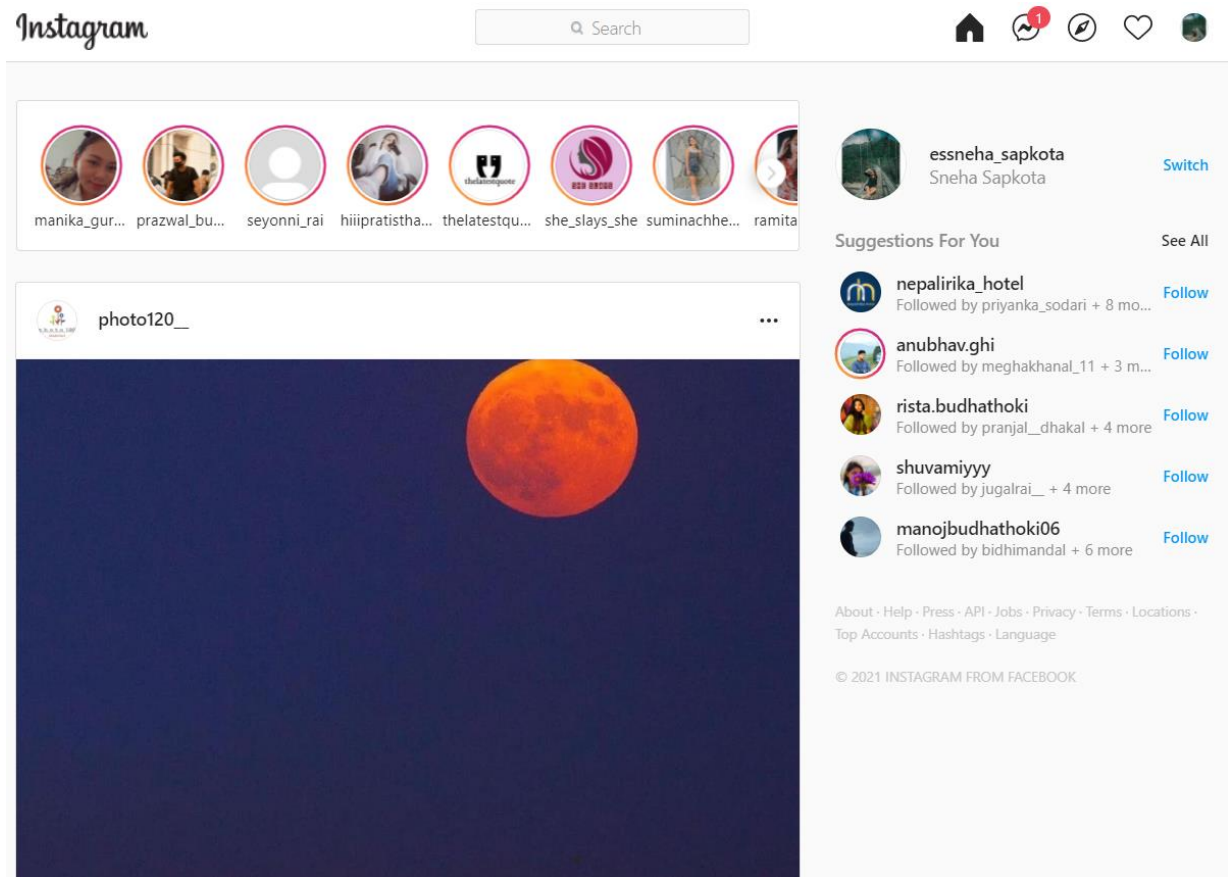


Figure 23 Instagram page opened

Conclusion

As this is our final coursework. The project has been performed/completed successfully in the predefined time frame. The time period while performing

this project was one of the major learning phases. All of the task that were predefined in the assignment have been thoroughly performed and well documented and presented in this report. As it was tough task to build web pages. It was possible to successfully perform the project only due to constant hard work effort and research capabilities. It was only due to such things that a web pages have been developed in this short time frame to learn and develop the system. the knowledge and skills required for the development of this project have been gathered from various sources and materials.

The coursework has been performed by a vast research and regular hard work in all of the areas that needed to be covered and were predefined. The completeness of the module itself and the materials provided by in addition to the support from respective module leader also played a huge role in submitting the project in given time frame. The development phase of the project felt like working on a real-world project as most of the elements and activities used were from the real world and real-world scenarios were also predefined in the coursework. The completion of this project provided a clear view of HTML, CSS and Java script. After performing this project one can make web pages easily.

At the end, after my continuous effort and struggle, finally I completed my coursework. This Coursework taught me lots of lesson about the time management, efforts and struggle, hard work. I became familiar with the techniques about how we can implement our thoughts and ideas in designing a website. I came to know that without any effort and struggle nothing can be done. I got a nice lesson from this coursework about self-dependency, time management and hard work.

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