LONDON METROPOLITAN UNIVERSITY

islington college
(इस्लिङ्टन कलेज)

Module Code & Module Title

CC4057NI Introduction to Information Systems

Assessment Weightage & Type

40% Individual Coursework

Year and Semester

2021-2022 Spring

Student Name: Aadesh Gyawali

Group: L1C10

London Met ID: 20048793

College ID: NP01CP4S10260

Assignment Due Date: May 28, 2021

Assignment Submission Date: May 30, 2021

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.

Table of Contents

1. Introduction 1
1.1. Introduction to Project 1
1.2 Goals and objectives 2
1.3. About HTML, CSS and JAVASCRIPT 2
2. Discussion and Analysis 3
2.1 Selected Text Editor 3
2.2. Use of text editor 3
2.3. Tool used for Wireframe 3
3. Project Pages 4
3.1. Home page 4
3.2 Blog Page 7
3.2. Research Page 10
3.4. CV page 15
3.5. Contact page 18
4. Testing 21
4.1. Test 1 21
4.2. Test 2 22
4.3. Test 3 24
4.4. Test 4 26
4.5. Test 5 28
6. Conclusion 30
6.1. Task in coursework 30
6.2. Research and Findings 30
References 31

List of Figures

Figure 1 Wireframe of Home page 5
Figure 2 Screen shot of Home Page 6
Figure 3 3 Wireframe of Blog 8
Figure 4 Screenshot of Blog page 9
Figure 5 Wireframe of Research 11
Figure 6 Screenshot of Research Page 14
Figure 7 Wireframe of CV 16
Figure 8 Screenshot of CV page 17
Figure 9 Wireframe of Contact 19
Figure 10 Screenshot of contact page 20
Figure 11 The hover property in the navigation bar 21
Figure 12 Output of External links 23
Figure 13 Form validation in the contact section made with JavaScript 25
Figure 14 Output of internal links 27
Figure 15 Working of clock made with JavaScript 29

List of Tables

Table 1 To check the hover property in the navigation bar 21
Table 2 To check external link of the website 22
Table 3 To check the form validation in the contact section made with JavaScript. 24
Table 4 To check internal and external link of the website. 26
Table 5 To check working of the clock made with JavaScript. 28

1. Introduction

1.1. Introduction to Project

More about the project. The portfolio website has many features only possible with the help of HTML, CSS and JavaScript. The project consists of navigation bar. The navigation bar allows user to navigate all of the webpages in side of the website. The website contains a footer section for storing the copyright and links to the social media accounts of the developer. Most of the content is inside of the main tag. The main tag holds images, color, tables, division, text, etc. As per the coursework requirement we need to have meta, img, table, div and form. These tags have been used throughout the coursework wherever necessary. Suitable comments and proper nesting structures have been given in the code. CSS has been used for editing and enhancing various elements of the HTML document. External CSS, Internal CSS and Inline CSS have been used during formatting the layout of the website. The topic of margin, padding, alignment, etc. make a website that contains CSS so much superior than that website without CSS. Thus CSS is so popular in web development and in improving the layout of the website. The Project contains JavaScript to make the website more interactive, control the behavior of the elements. The form validation is made with the help of JavaScript. Suitable message is given if the data field is empty else a thank you message is appeared as a top op. Image slider is also made with the help of java script. The JavaScript dynamically changes the content of the website. All of the above action improve the content layout and interface of the website by using HTML, CSS and JavaScript.

1.2 Goals and objectives

The project consist of realistic and achievable goals and objective. The main goals of this project are:-

- A simple website containing good content, good layout using HTML and CSS.
- Interactive features, behavior of different elements by JavaScript.
- Well Structures code with suitable comments.
- Proper use of HTML tags such as title, meta, img, table, div, form.
- Proper use of External CSS, Internal CSS and Inline CSS.
- Presence of basic elements of HTML documents.
- Storage of files in proper folder structure.

The objective of this project is:-

To make a portfolio website of good content, good layout, interactive by using HTML, CSS and JavaScript.

1.3. About HTML, CSS and JAVASCRIPT

HTML, CSS and JavaScript is used for the web development. HTML provides the basic structure of our website. The browser renders the content of the page form the HTML document. CSS is used for editing and enhancing various elements of the HTML document. The layout of multiple pages of our website can be edited by a single CSS file. JavaScript is used to make the website more interactive, control the behavior of different elements. The project of website portfolio consists of all three components i.e. HTML, CSS and JavaScript. These three components are used to improve the content, layout and the control of different elements.

2. Discussion and Analysis

2.1 Selected Text Editor

In this Project Visual Studio Code was selected as a text editor. Visual Studio Code (famously known as VS Code) is a free open source text editor by Microsoft. VS Code is available for Windows, Linux, and macOS. Although the editor is relatively lightweight, it includes some powerful features that have made VS Code one of the most popular development environment tools in recent times.

2.2. Use of text editor

Visual Studio Code is a streamlined code editor with support for development operations like debugging, task running, and version control. It aims to provide just the tools a developer needs for a quick code-build-debug cycle and leaves more complex workflows to fuller featured IDEs, such as Visual Studio IDE.

2.3. Tool used for Wireframe

The tool used for wireframe was Balsamiq. Balsamiq Wireframes is a user interface design tool for creating wireframes (sometimes called mockups or low-fidelity prototypes). You can use it to generate digital sketches of your idea or concept for an application or website, to facilitate discussion and understanding before any code is written. The completed wireframes can be used for user testing, clarifying your vision, getting feedback from stakeholders, or getting approval to start development.

3. Project Pages

3.1. Home page

The Home page is the starting page of our website. It contains a header, main division and a footer. The navigation bar has link of Home Page, CV, Research, Blog and Contact. The navigation has hover effect and active effect. Padding, color, margin has been styled with CSS. The main section the Home page contains a background image. The main section welcome the user to the site and provide name. And with the help of JavaScript current time is provided to the user. The main section the Home page contains a background image. Above clock there is a button link which transfer you to the cv page which contain the information about me. The home page also contain the real time clock which also shows its day or night time.

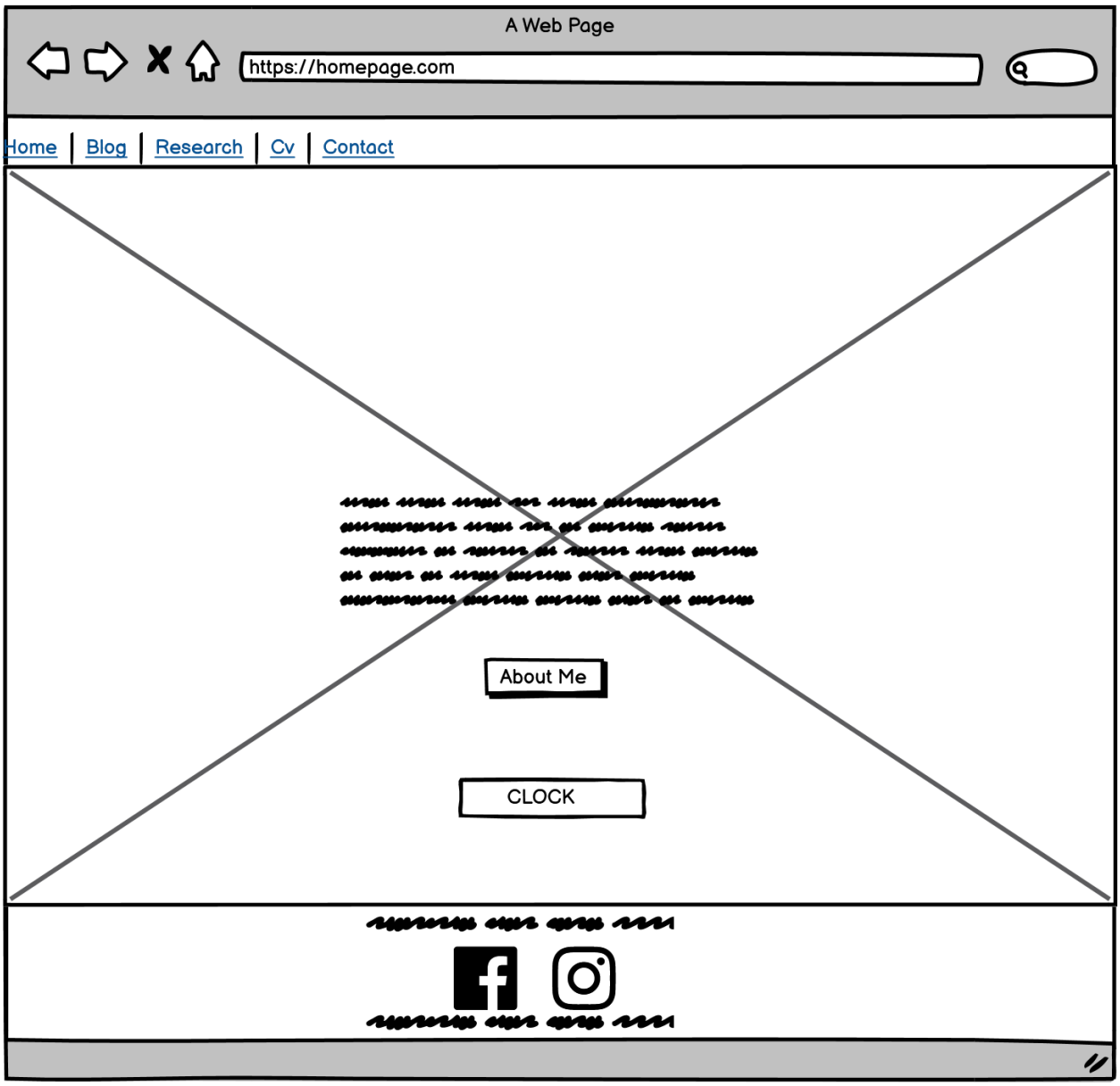


Figure 1 Wireframe of Home page

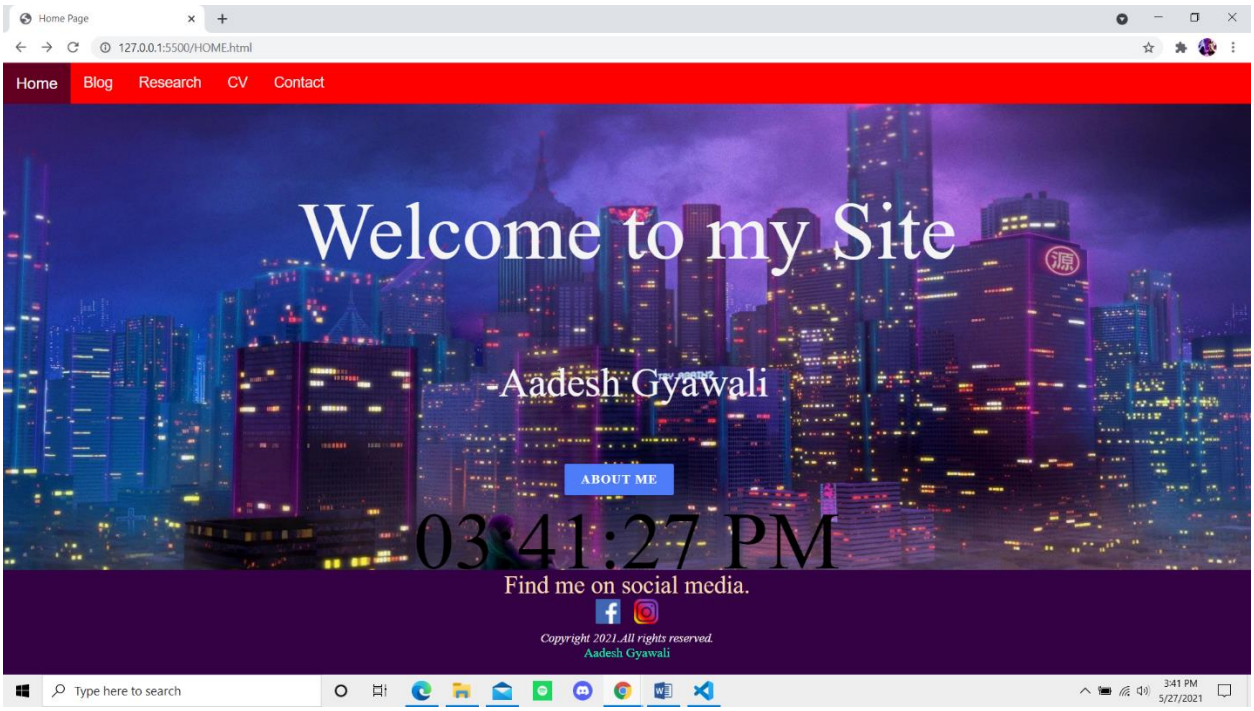


Figure 2 Screen shot of Home Page

3.2 Blog Page

The blog page contain the short description about Internet Technology. The header section contains the name and the navigation bar. This page contain three column. Each column contain the information about the internet technology. The top column contain the definition about what is internet technology. The second column contain the information about the Advantage of internet technology. The Third column contain the Disadvantage of the internet technology and effects. This all contain in the milled section. This page does not contain the background image. The background is occupied by the column section the background color is gray.

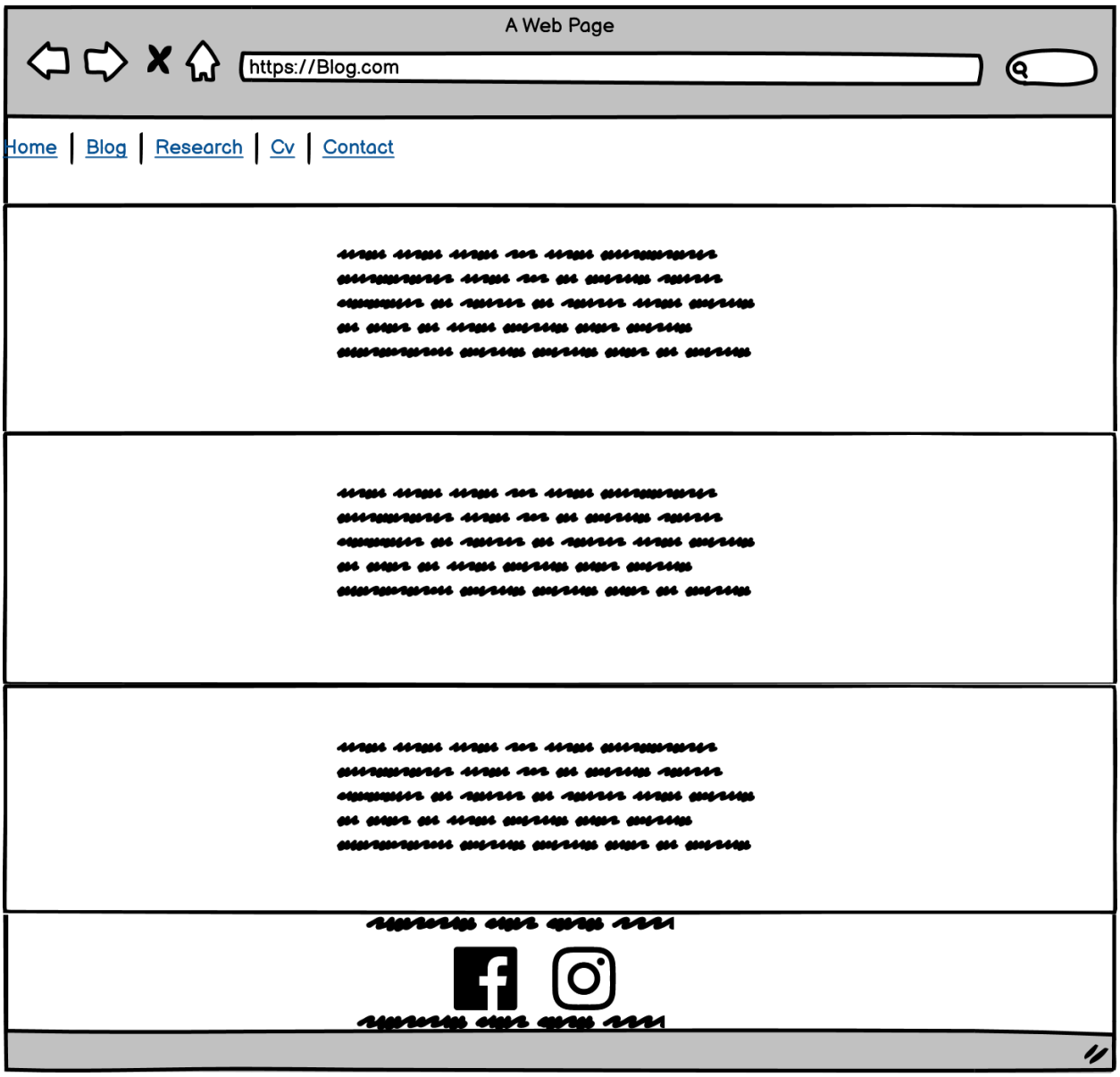


Figure 3 3 Wireframe of Blog

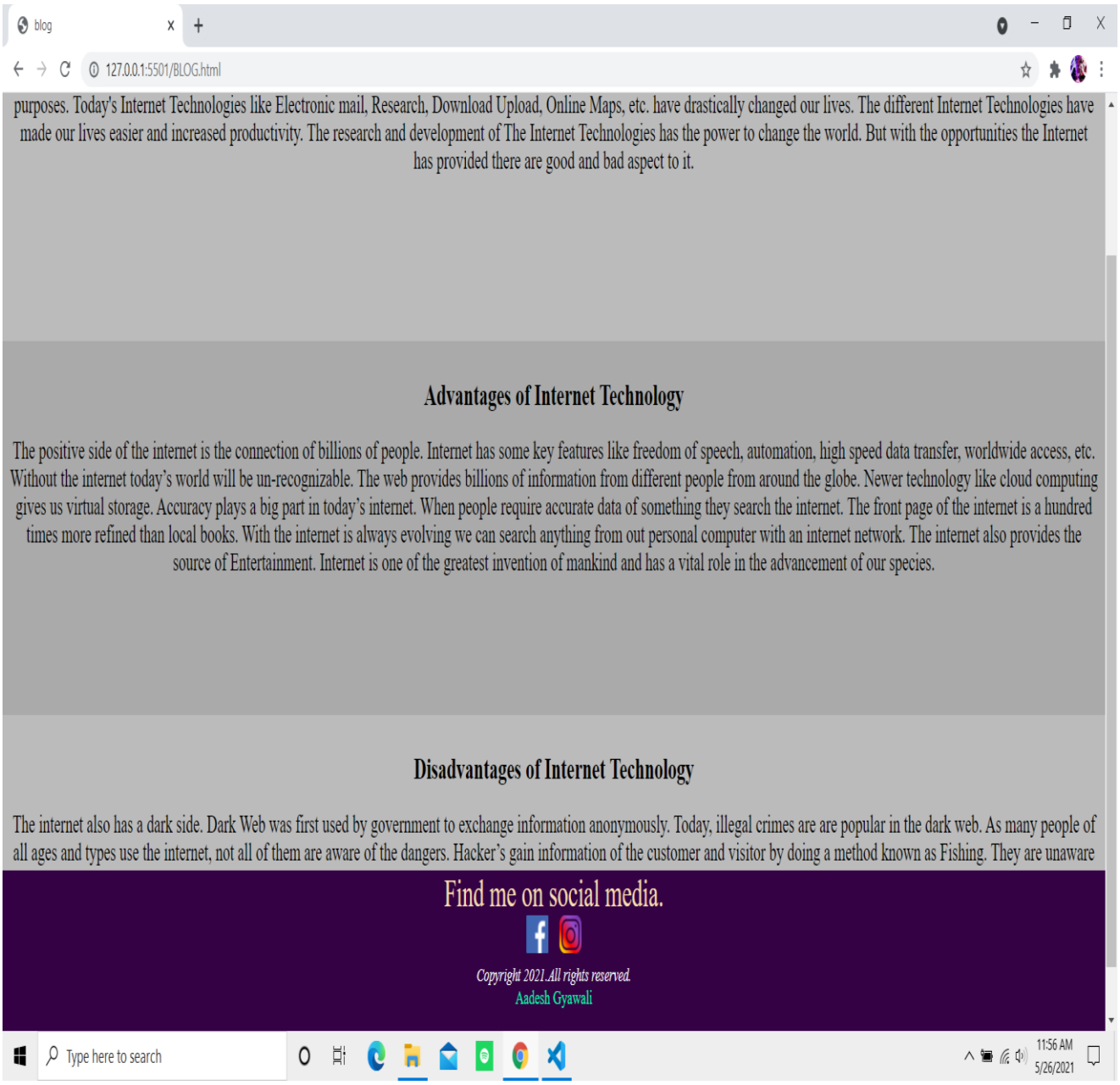


Figure 4 Screenshot of Blog page

3.2. Research Page

The research section contains the research done while developing the website. The research section contains 5 division. The actual result and expected result is displayed in the website. A background image is given in the body tag. The web site contains a header for navigation. The hover effect and active effect is seen in the navigation bar. The footer section contains the Social media link and copyright.

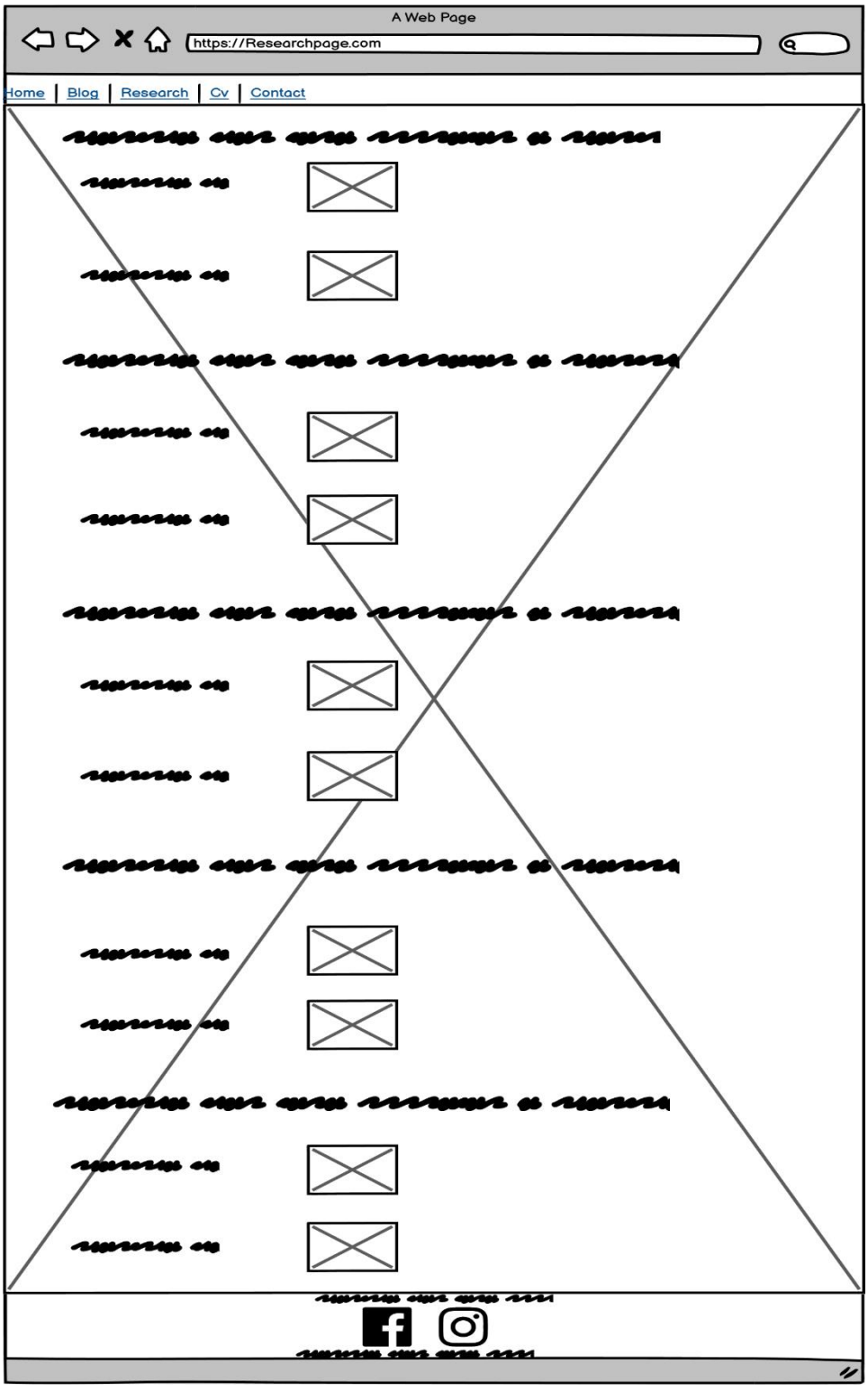
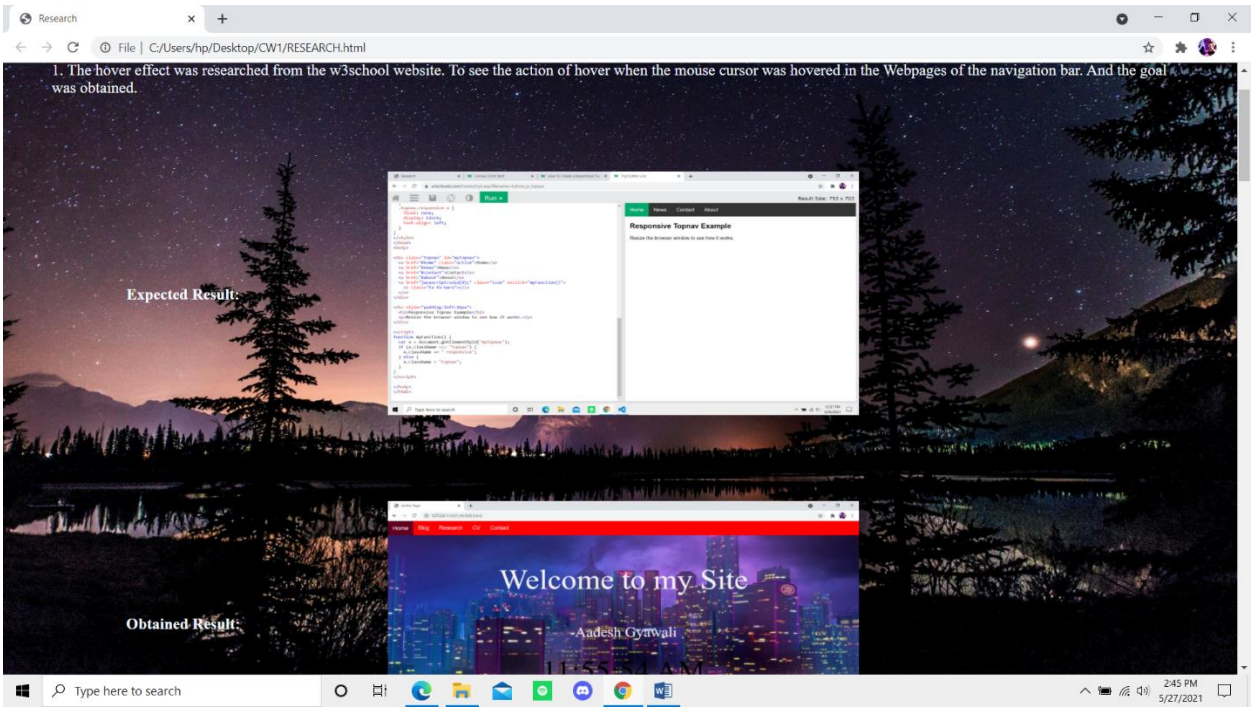
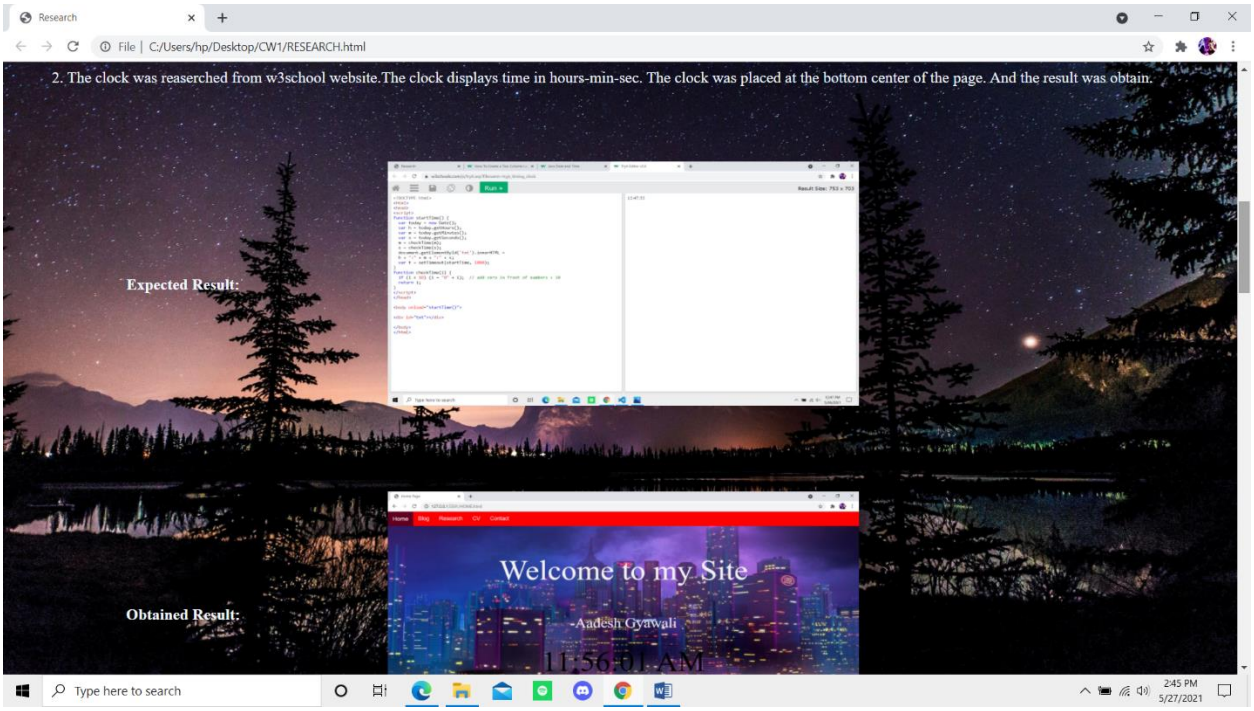
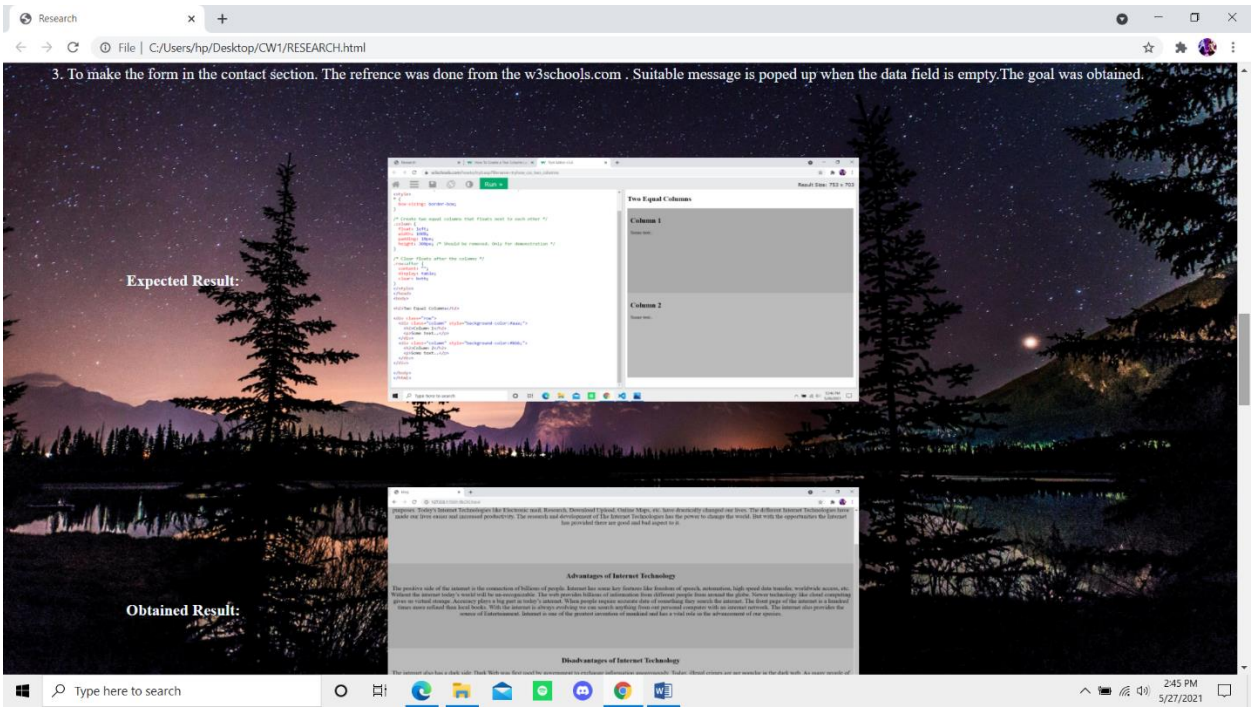
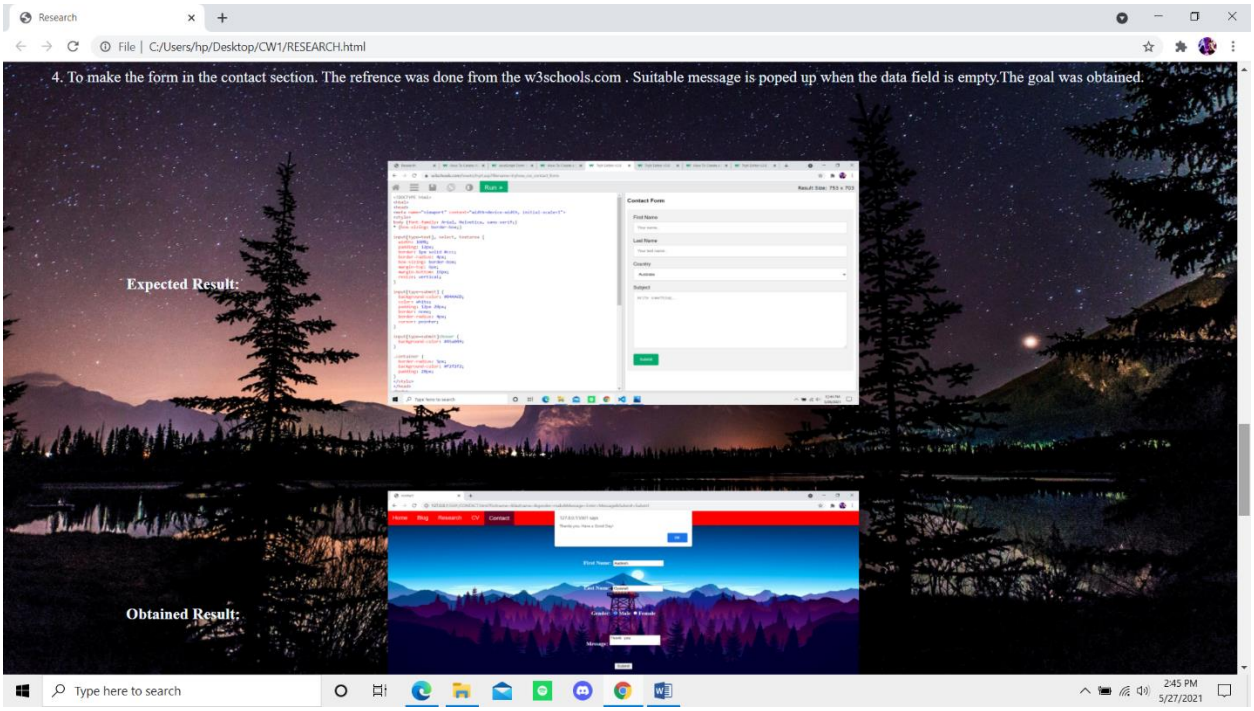


Figure 5 Wireframe of Research


Research
File | C:/Users/hp/Desktop/CW1/RESEARCH.html
1. The hover effect was researched from the w3school website. To see the action of hover when the mouse cursor was hovered in the Webpages of the navigation bar. And the goal was obtained.
Expected Result:
Responsive Topnav Example
Obtained Result:
Welcome to my Site
-Aadesh Gyawali
Type here to search
2:45 PM
5/27/2021


Research
File | C:/Users/hp/Desktop/CW1/RESEARCH.html
2. The clock was reaserched from w3school website.The clock displays time in hours-min-sec. The clock was placed at the bottom center of the page. And the result was obtain.
Expected Result:
Obtained Result:
Welcome to my Site
-Aadesh Gyawali
11:56:01 AM
Type here to search
2:45 PM
5/27/2021


Research
File | C:/Users/hp/Desktop/CW1/RESEARCH.html
3. To make the form in the contact section. The refrence was done from the w3schools.com . Suitable message is poped up when the data field is empty.The goal was obtained.
Expected Result:
Obtained Result:
Type here to search
2:45 PM
5/27/2021


Research
File | C:/Users/hp/Desktop/CW1/RESEARCH.html
4. To make the form in the contact section. The refrence was done from the w3schools.com . Suitable message is poped up when the data field is empty.The goal was obtained.
Expected Result:
Obtained Result:
Type here to search
2:45 PM
5/27/2021

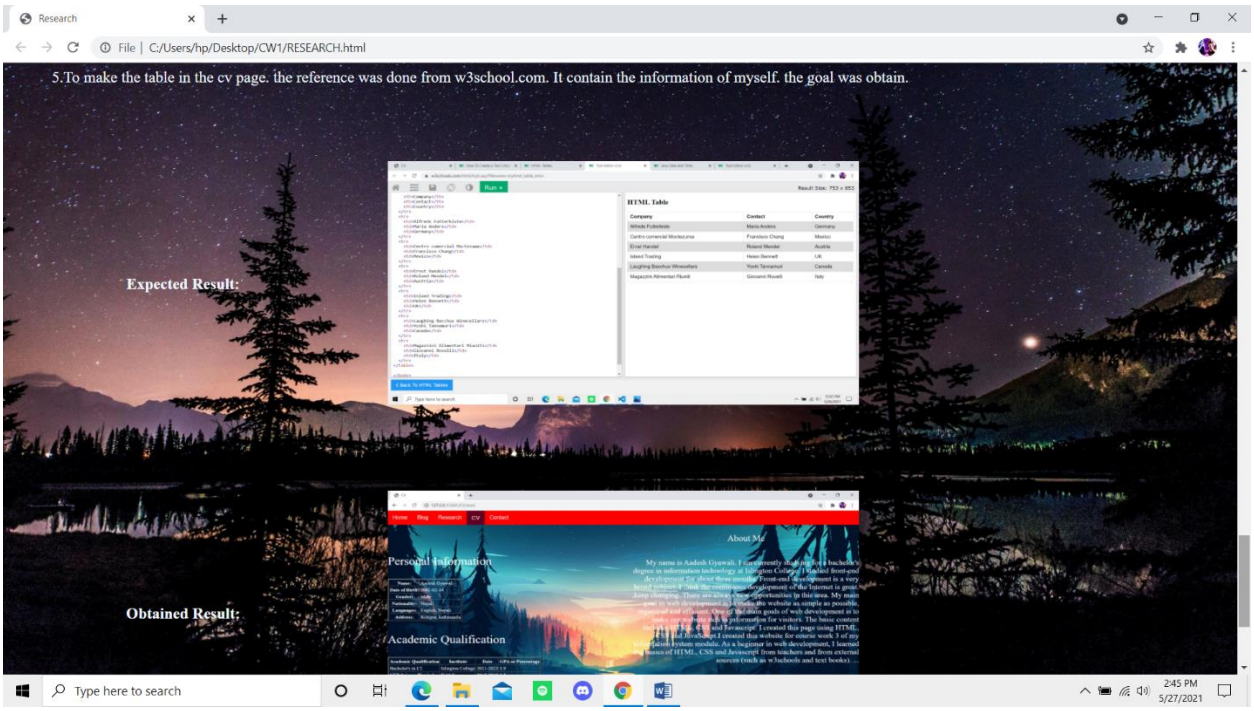


Figure 6 Screenshot of Research Page

3.4. CV page

The CV (Curriculum Vitae) page also contain navigation bar at the top of the page. It is provided with different back ground. In the top left it contain the personal information and bottom left it contain the academic information of the user. And also right side of the screen it contain the information about the user detail. In this page the information of academic qualification and personal information in the table. Back ground image is given in the body tag. The image occupies the whole web page.

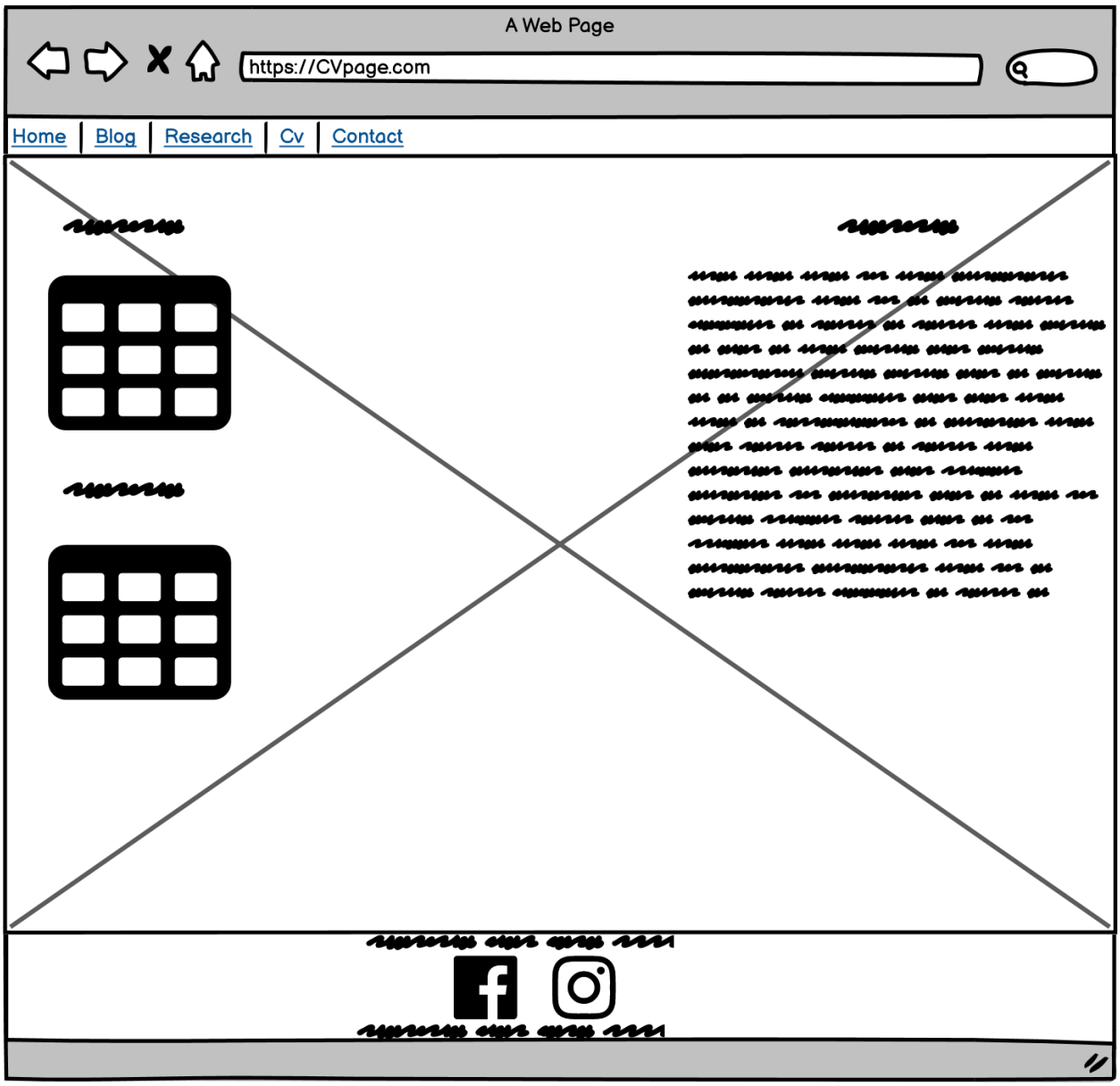


Figure 7 Wireframe of CV

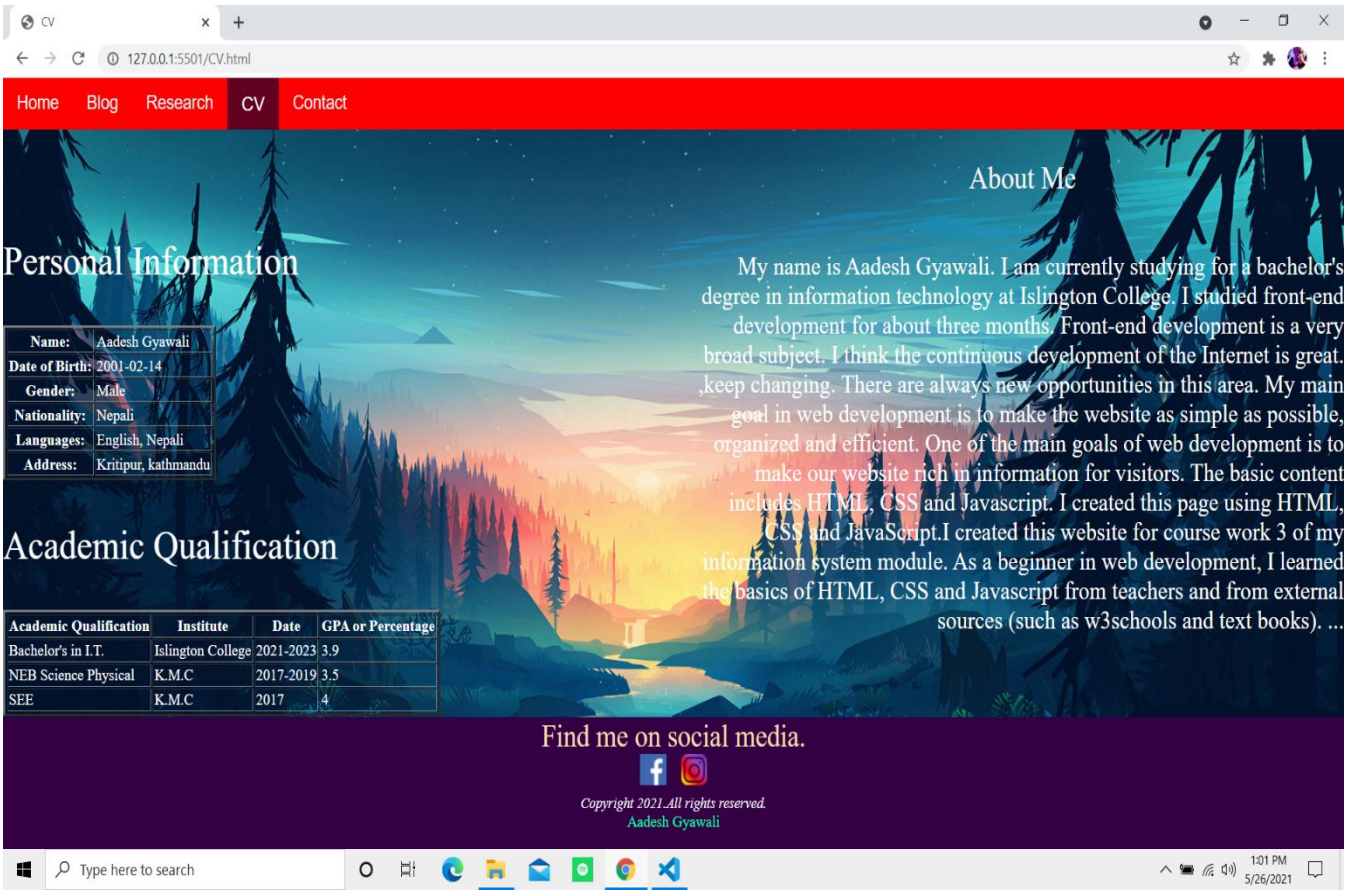


Figure 8 Screenshot of CV page

3.5. Contact page

The back ground image is given in the body tag. The header section contains a navigation bar. The navigation bar contains active and hover properties. The contact section has a form. The form outline was made with CSS. The form validation was done with the help of JS. The form shows a top op if the data field is left empty. Various data fields is filled. The form also has a radio button for male and female choices. The submit button gives the input data field to the server. The footer section contains the copyright and the external link.

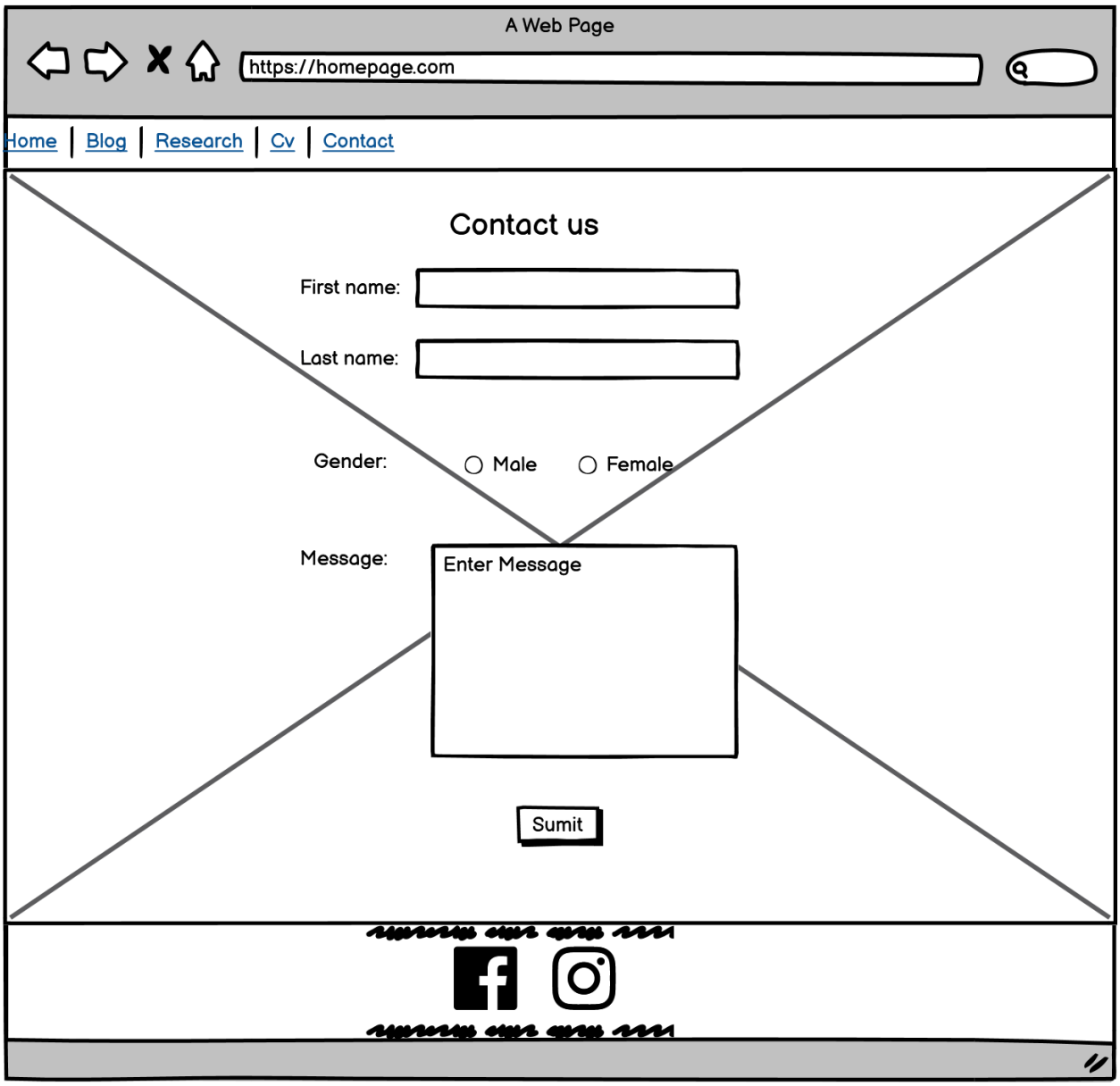


Figure 9 Wireframe of Contact

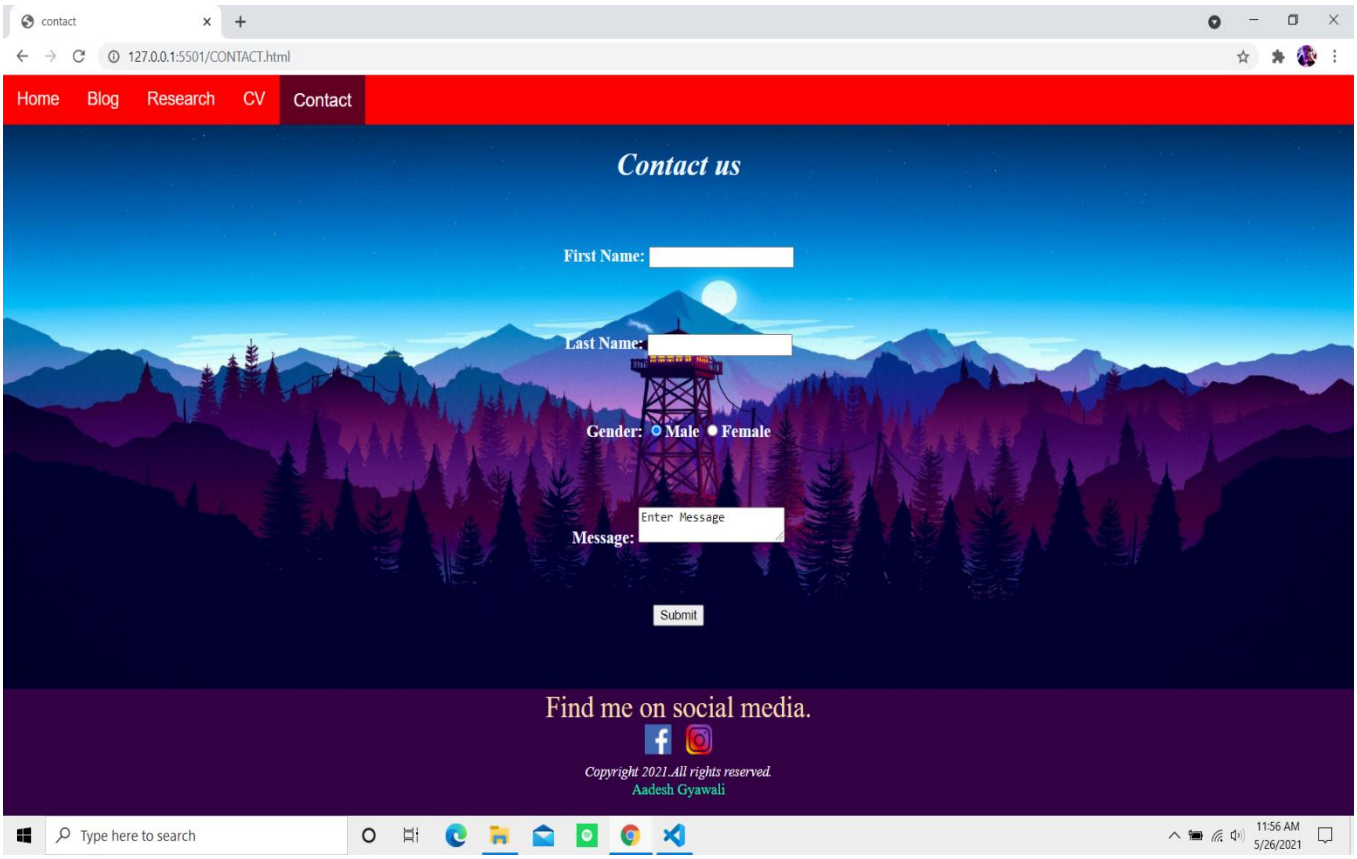


Figure 10 Screenshot of contact page

4. Testing

Various Tests were given to the website. Each test has an objective, expected result, actual result, actions and conclusions.

4.1. Test 1

Test No	1
Objective	To check the hover property in the navigation bar
Action	• The mouse cursor was placed in one of the page link in the Navigation bar.
Expected Result	Hover Effect from the change in Background color
Actual Result	Change in back ground color
Conclusion	Hence the test was successful

Table 1 To check the hover property in the navigation bar

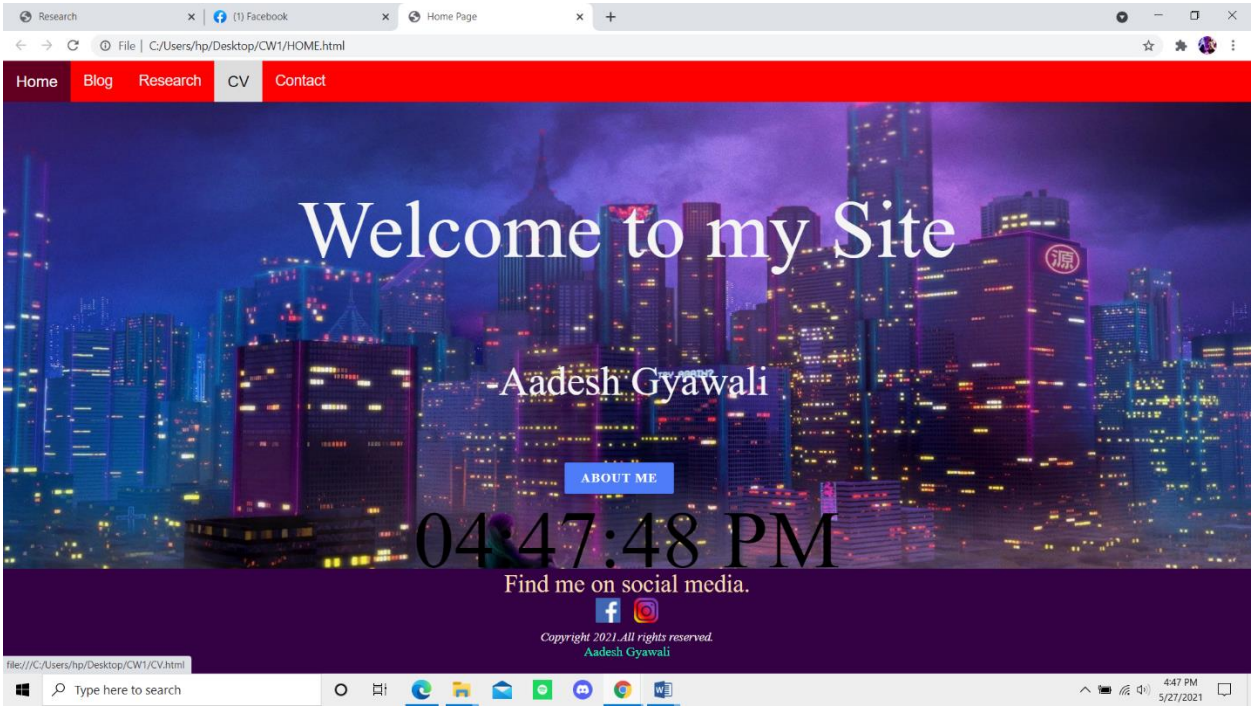
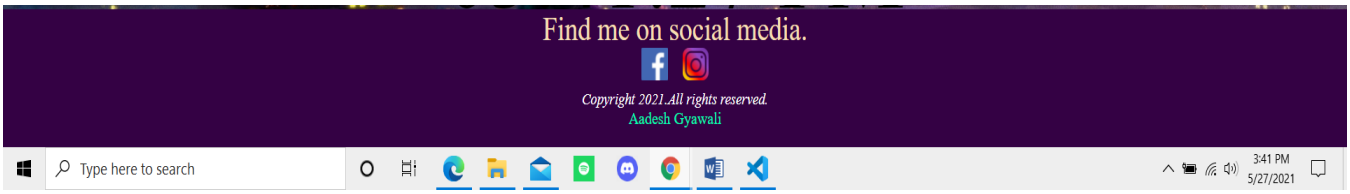


Figure 11 The hover property in the navigation bar

4.2. Test 2

Test No	2
Objective	To check external link of the website.
Action	• The external link in the footer section of social media sites was clicked.
Expected Result	The external link direct the user to external site.
Actual Result	The external link directed the user to the social media page when button was clicked.
Conclusion	External link was successful.

Table 2 To check external link of the website.



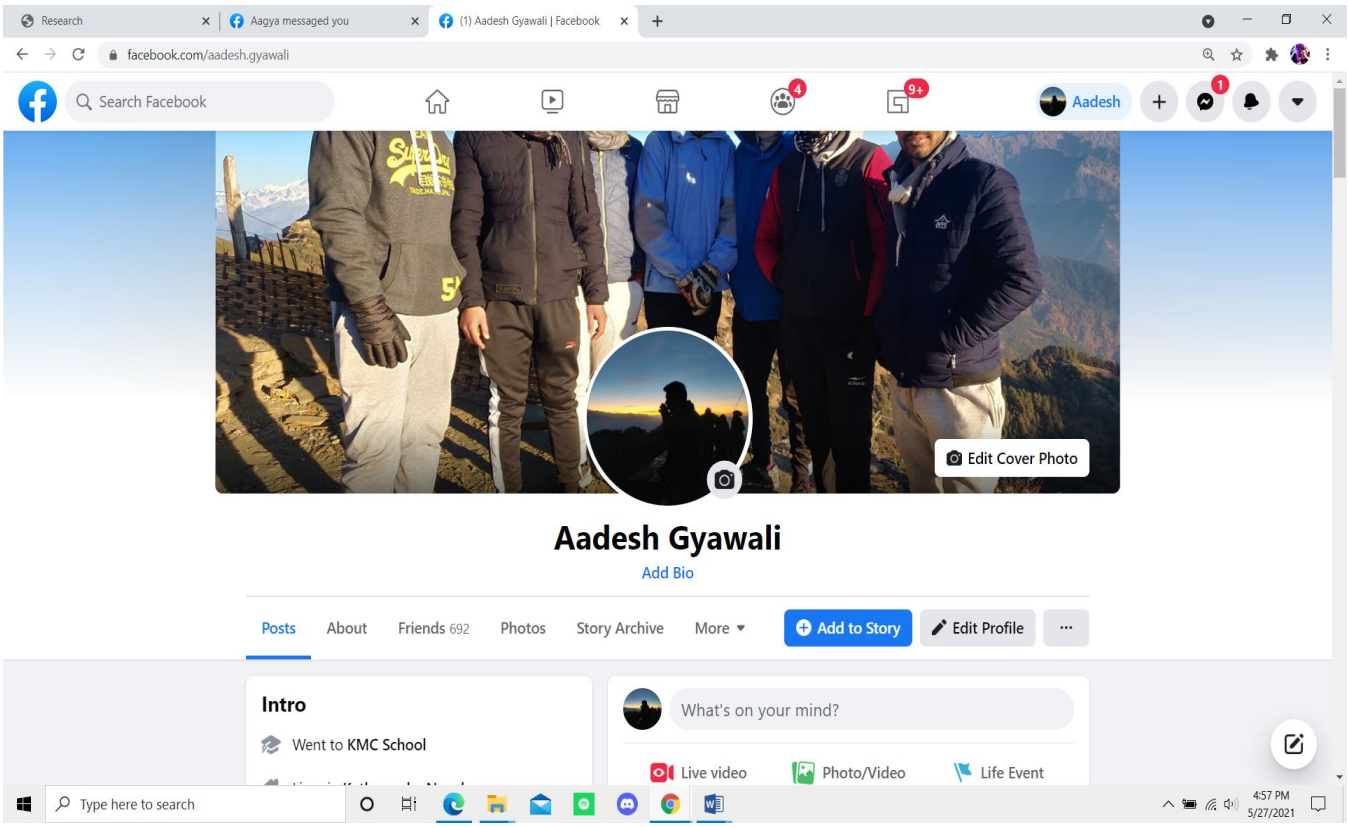


Figure 12 Output of External links

4.3. Test 3

Test No	3
Objective	To check the form validation in the contact section made with JavaScript.
Action	• A data field in the form was left empty. • All the data fields were filled
Expected Result	Error Message to be top op when a data field is left empty and a thank you message when all the data fields were filled.
Actual Result	Error message was top open when a data field was left empty and a thank you message when all the data fields were filled
Conclusion	The form validation of the contact section is valid.

Table 3 To check the form validation in the contact section made with JavaScript.

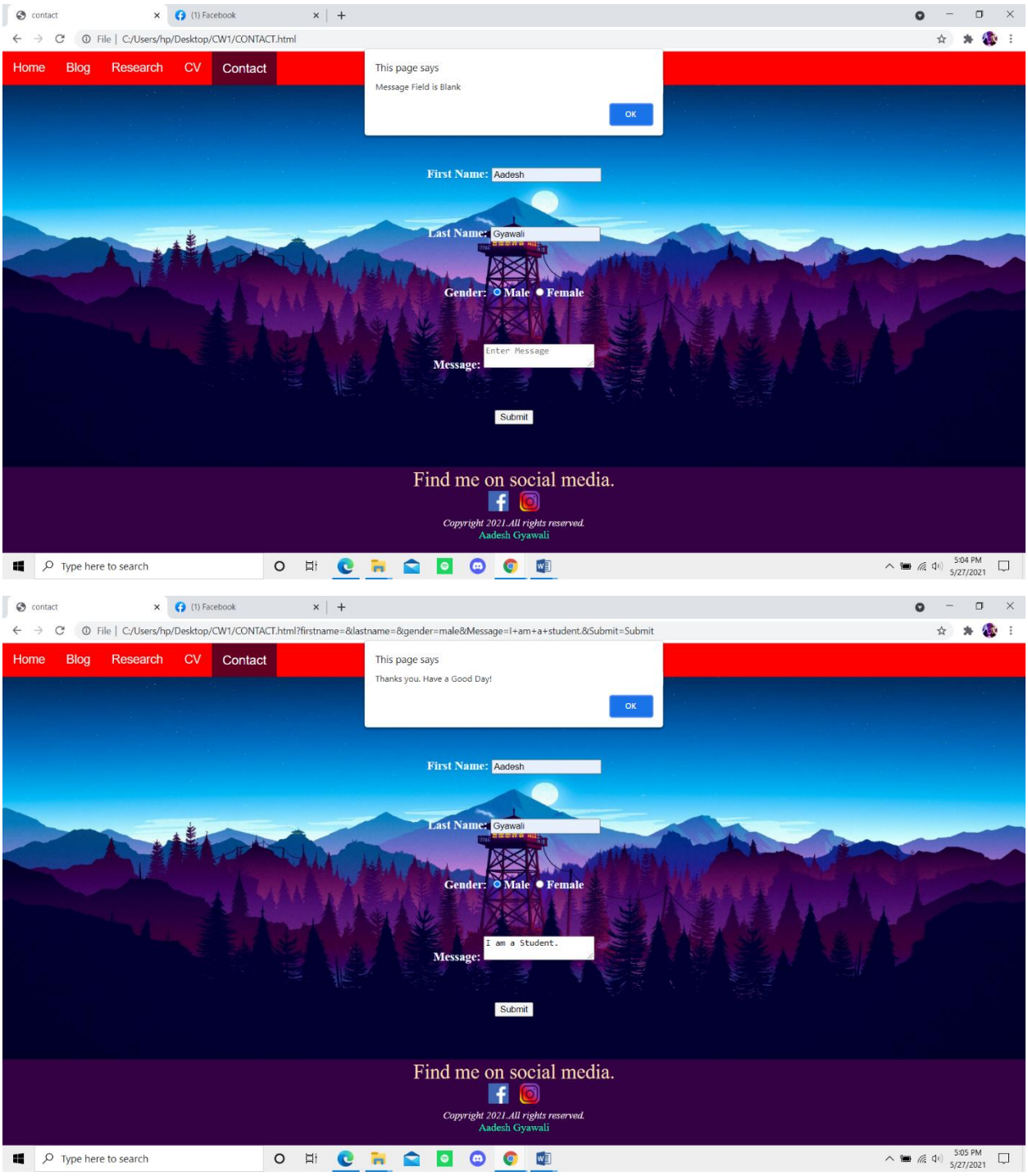
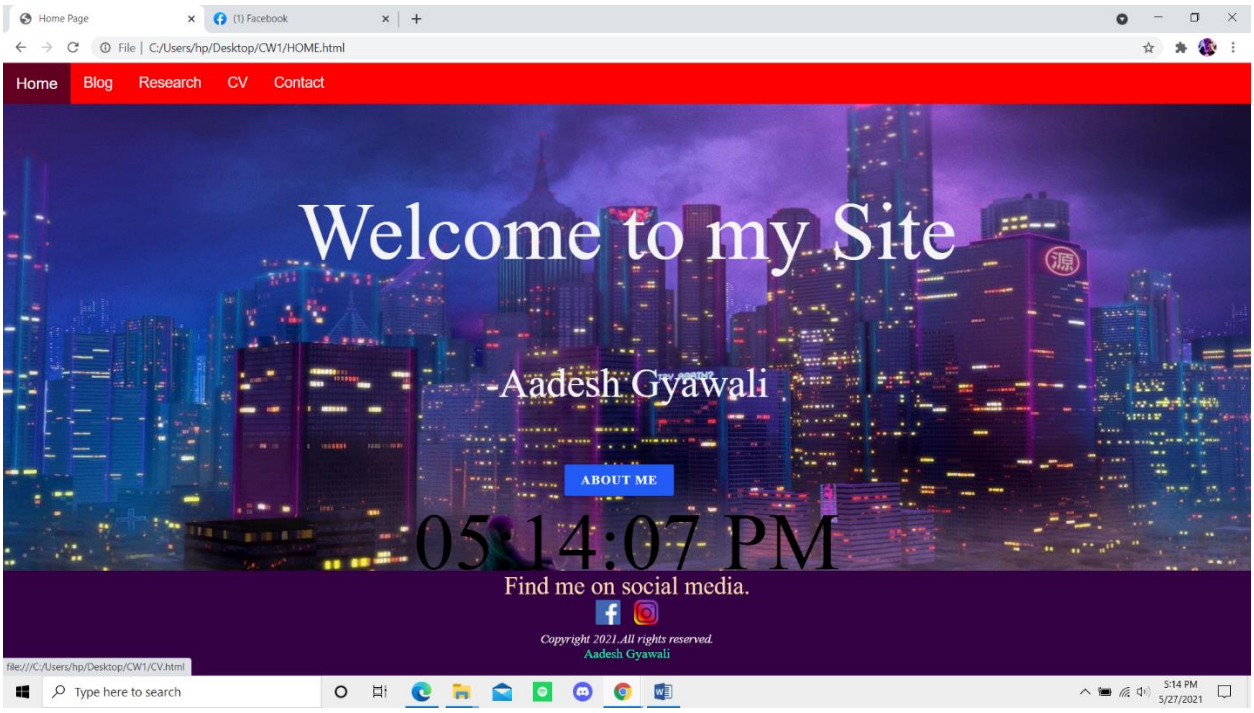


Figure 13 Form validation in the contact section made with JavaScript

4.4. Test 4

Test No	2
Objective	To check internal link of the website.
Action	• The internal link in the home page as About Me button which take us to the cv page on click.
Expected Result	The internal link direct the user to the CV page.
Actual Result	The internal link directed the user to the CV page when button was clicked.
Conclusion	Internal link was successful.

Table 4 To check internal and external link of the website.



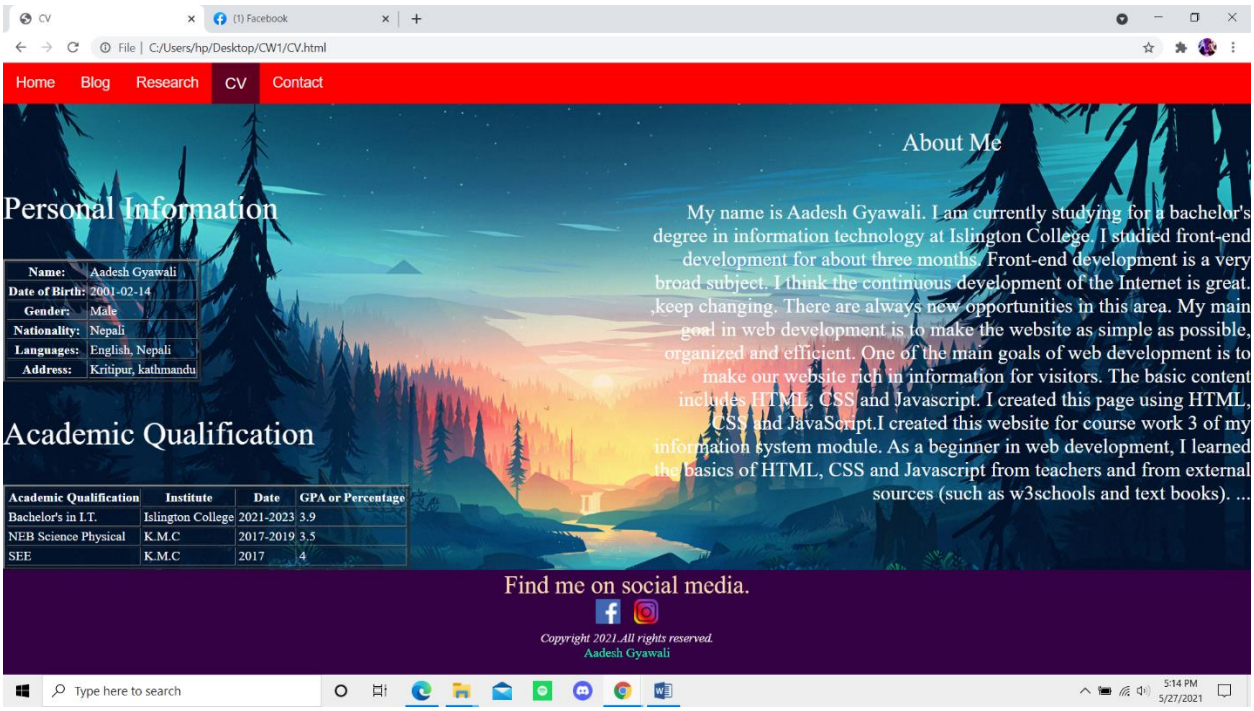


Figure 14 Output of internal links

4.5. Test 5

Test No	1
Objective	To check working of the clock in the home page made with JavaScript.
Action	• The time was observed
Expected Result	The time to be accurate and to update every second.
Actual Result	The time was accurate and was updated every second.
Conclusion	The clock is working properly.

Table 5 To check working of the clock made with JavaScript.

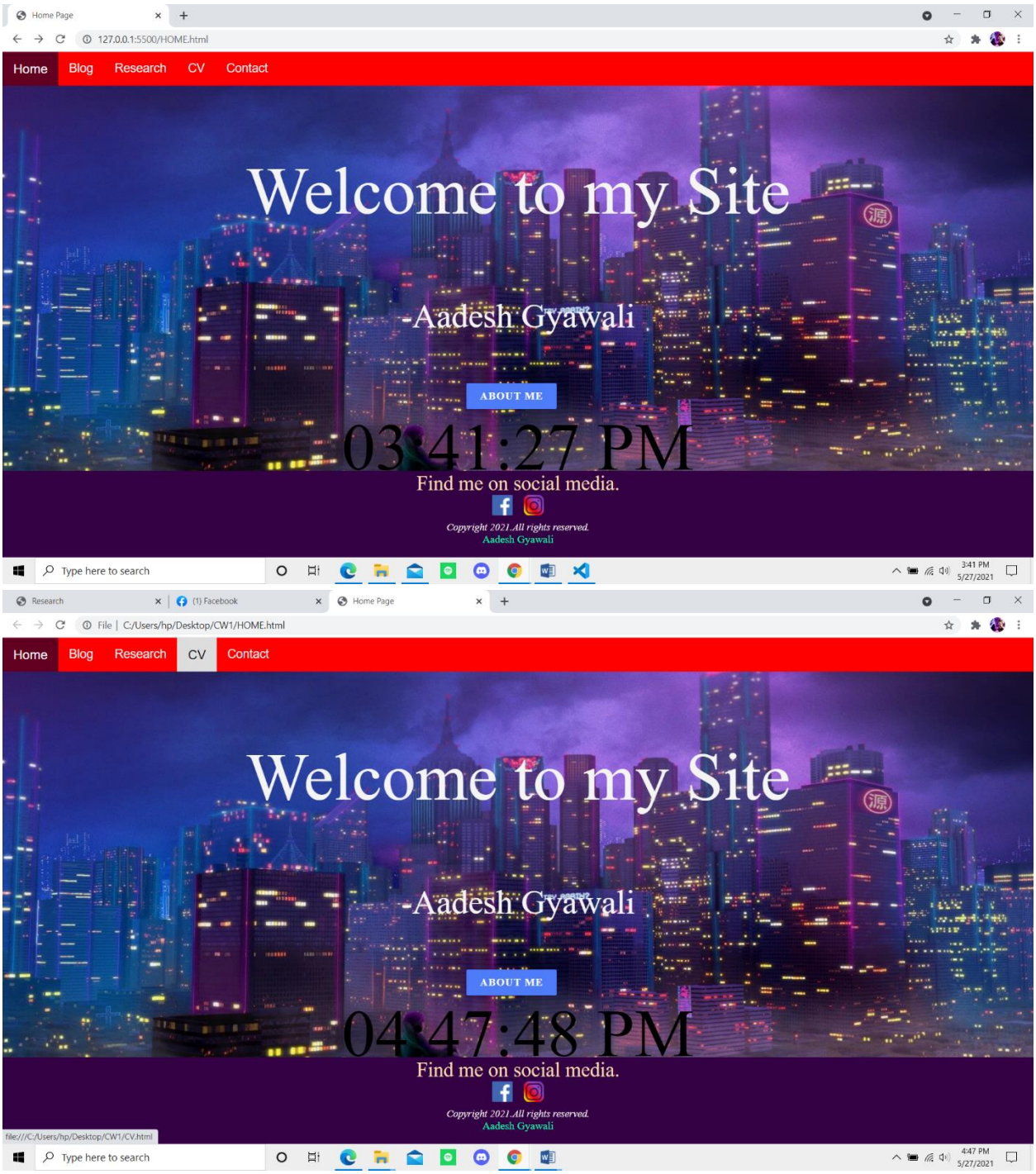


Figure 15 Working of clock made with JavaScript

6. Conclusion

6.1. Task in coursework

This coursework consist the portfolio website made with HTML, CSS, JavaScript. The HTML provide the skeleton structure of the website, CSS is to style the layout and styling of the elements, JavaScript was used to interact and control the element the behavior of various elements. The given project for developing website consist of 5 web pages. Which include home page, Blog page, Research page, CV page, Contact page. Since the pages are link with each other which make it easier to navigate through different pages. With the help of the VS code it help to wright inside HTML file. Again with the help of CSS the content was change and with the help of JavaScript the webpage was interactive or user friendly. The external CSS contained classes and id with specific styles for specific tags. 2 java script was used in this project. A clock, form validation developed with Java Script.

6.2. Research and Findings

A lot of research was done during this project. Sources like w3schools, tutorials point, Stack Overflow were used for research purposes. Research of hover effect and active effect was done from the w3schools website. The time clock was also made using JavaScript the clock updates it’s time every second and gives the accurate time. The form validation was used using javas script. Whenever a data field is empty an error message is displayed, when all data fields are filled there is a thank you message. These are the basic research that was done in this project. After this project and research which increase my knowledge in the topic HTML, CSS and JavaScript.

References

w3school, 2021. *w3schools.com/cssref/sel_hover.asp.* [Online]
Available at: https://www.w3schools.com/cssref/sel_hover.asp
[Accessed 28 May 2021].
w3school, 2021. *w3schools.com/html/html_forms.asp.* [Online]
Available at: https://www.w3schools.com/html/html_forms.asp
[Accessed 28 May 2021].
W3school, 2021. *w3schools.com/js/js_dates.asp.* [Online]
Available at: https://www.w3schools.com/js/js_dates.asp
[Accessed 28 may 2021].