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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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1. Introduction

In this project, we are told to make a portfolio website of at least 5 pages in which I have included CV, blogs, name, research and contact. I have entirely created these website using various components HTML, CSS3 and JavaScript. To complete my webpages I have used Visual Studio Code which is a powerful code editor. The main goal of this project is to build a responsive portfolio website utilising CSS and JavaScript.

In have project I have properly used html tags and as well as semantics elements which provides proper explanation to the context of HTML.I have used various types of HTML such as title, mega, img, table, div and form etc. I also have properly utilised CSS properties for my images, for my text, for my display etc. In this project I have used internal, inline and external CSS. In this project, I have implemented both types of JavaScript which is external JSS and internal to make my project responsive and helpful. Here Attributes and comments are utilized properly. Likewise, all the codes are formatted and structured well.

Brief Explanation of use of HyperText Markup Language (HTML) in my project:

We all know that HTML is not a programming language but it is a markup language which gives proper structure to text. So I have used HTML language to give proper formatting to my text and it must be used properly. In this project I have used all the basic structures of HTML documents which includes tags such as head tag, title tag, body tag etc. I have also used semantics elements because it helps to organise my webpages. I have used meta tags to contain the additional information for my pages. All the formatting tags for texts are used in my project such as bold text, marked text, Italic text etc. I have also utilised HTML List properly using the unordered list and tables are also made using the table tag along with tags such as table header tag , table data tag etc. I have imported picture for the background for all the webpages using image source as link. It can be done with anchor tag. I have provided the link for my navigation bars as well.

Brief Explanation of use of Cascading Style Sheets (CSS) in my project:

In this project I have utilised CSS language to give style for my HTML document. During my research I have found that Style sheets work like templates. I have properly implemented selector and declaration feature in my website. In selector html tags is used and in declaration property and value is used. In my project I have properly used Inline CSS, Internal CSS and External CSS. I have mostly used inline CSS for my heading with property such as colour, size etc. I have used Internal CSS within a page inside the head tag and external CSS is used in separate file with .css extension. Various property such as colour, size, width, background-position, margins and padding have been used. Feature of Classes and ID is used. While doing this project I properly understood that Classes can be used multiple times but id are unique and one ID can only be used for one elements.

Brief Explanation of use of JavaScript (JS) in my project:

In this project I have used java script to make my website responsive and interactive. Since, it is a interpreted language, not compiled it integrates with its HTML/CSS content. To make my project responsive using JSS firstly, Variables, logical operators are being used. Here if /else statement is used to bring pop up alert message. External JavaScript is used to pop up alert message and Internal JavaScript is used for button click sound feature. Function with parameter is used for performing various feature in my project.

In all my web pages I have utilised Attributes and comments properly.

2. Discussion and Analysis

2.1 About Visual Code Studio Text Editor:

Visual Studio Code is a lightweight but powerful source code editor. It Enables additional languages, themes, debuggers, commands, and more. I have used its various extensions such as LiveServer, Colour Picker and Beautify etc. Among all Live Server is the best because it helps to launch a local development server to enable live reload features for static and dynamic pages. VS code editor has helped me to complete my code fast because it suggests me the various option such as tags, CSS properties, values etc. With support for hundreds of languages, It has helped me to write my code with productive feature such as syntax highlighting, bracket-matching, auto-indentation, box-selection, and more.

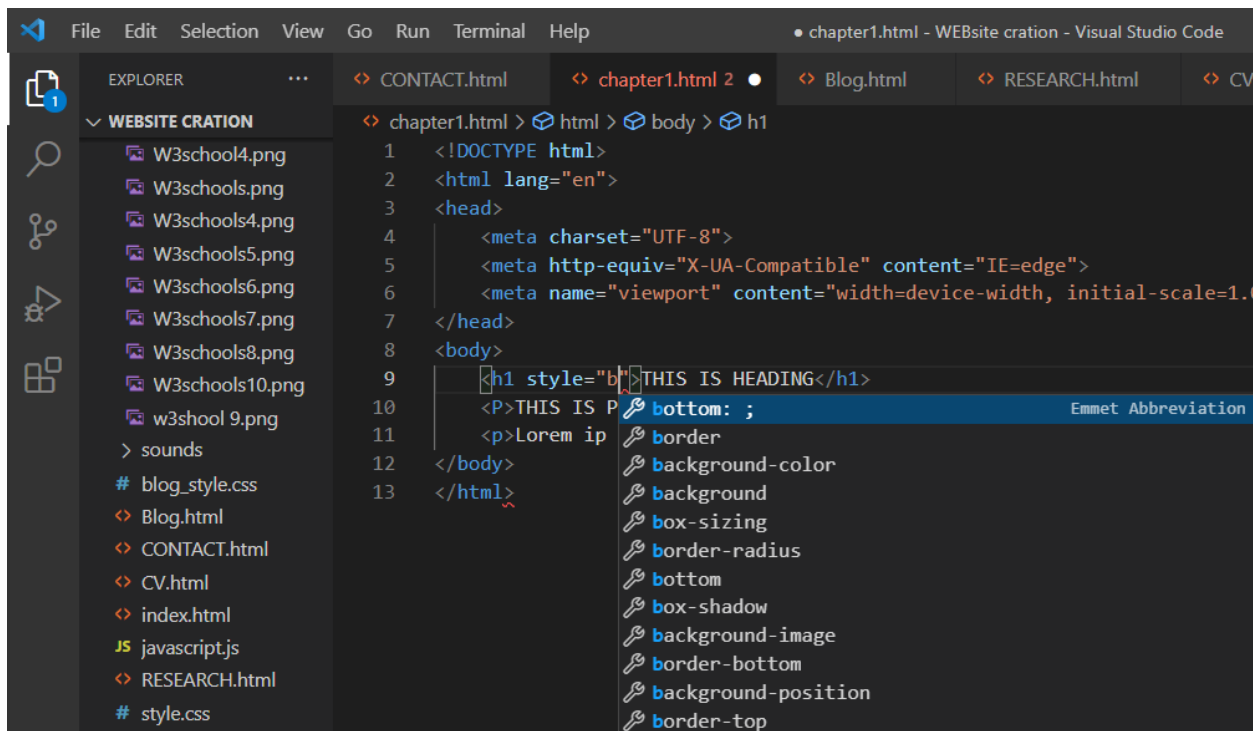


Figure 1 : Screenshots OF VS CODE Editor

2.2 Tool used while developing wireframe:

Balsamiq Wireframes

Balsamiq Wireframes is a graphical user interface website wireframe builder application. It allows the designer to arrange pre-built widgets using a drag-and-drop editor. It is the wireframe creating tools which helps us to give proper vision of our website in short period of time. I have used it to generate idea and vision for my webpage. It an application which facilitate discussion and understanding before any code is written. It provides various option for drag and drop such as media, text, containers etc. I have used this wireframes for testing and clarifying my vision.

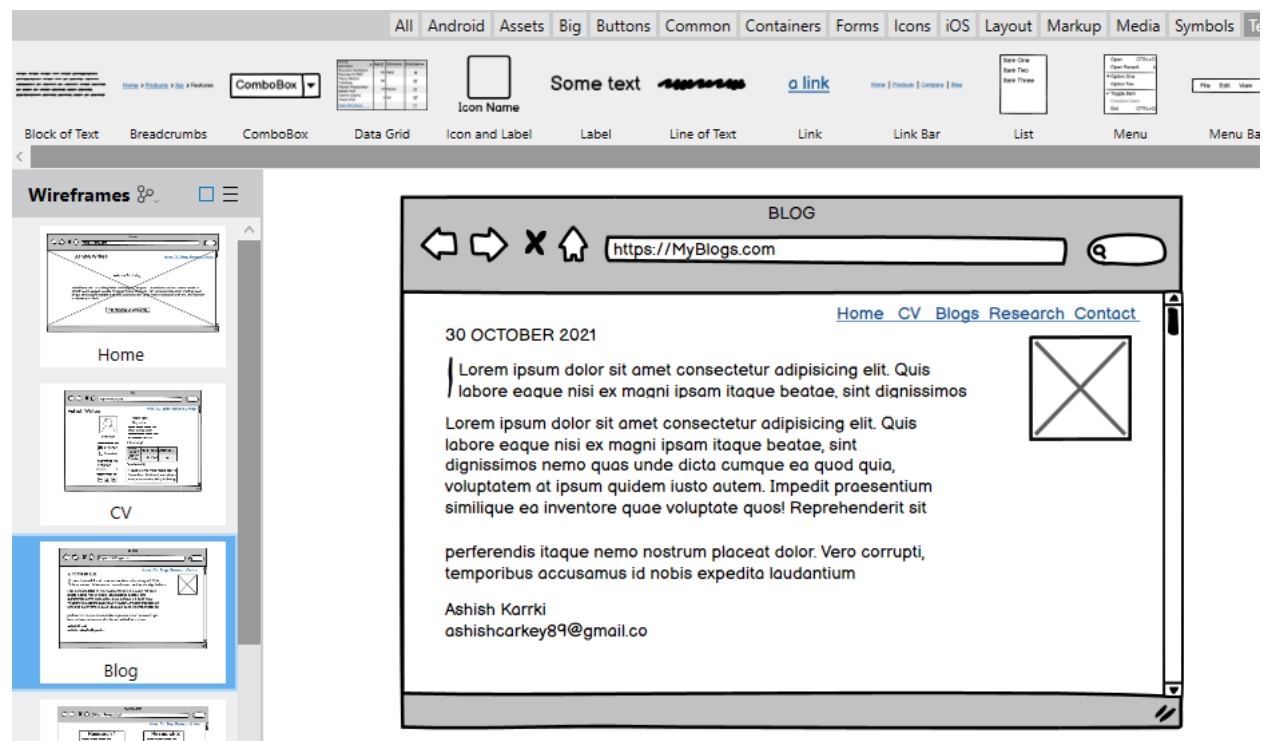


Figure 2 : Screenshots of Balsamiq Wireframe

3. My Web Pages

3.1 Home Page

This is the main home page of my website. In this website I have introduced my website and given my short Introduction. I have also given my official name for my blog which is Ashish Writes. This page contains 5 navigation menu which is for my all other webpages. The anchor tag has helped to provide link for 5 different web pages. In this web page I have also created a button which takes user to Contact page.

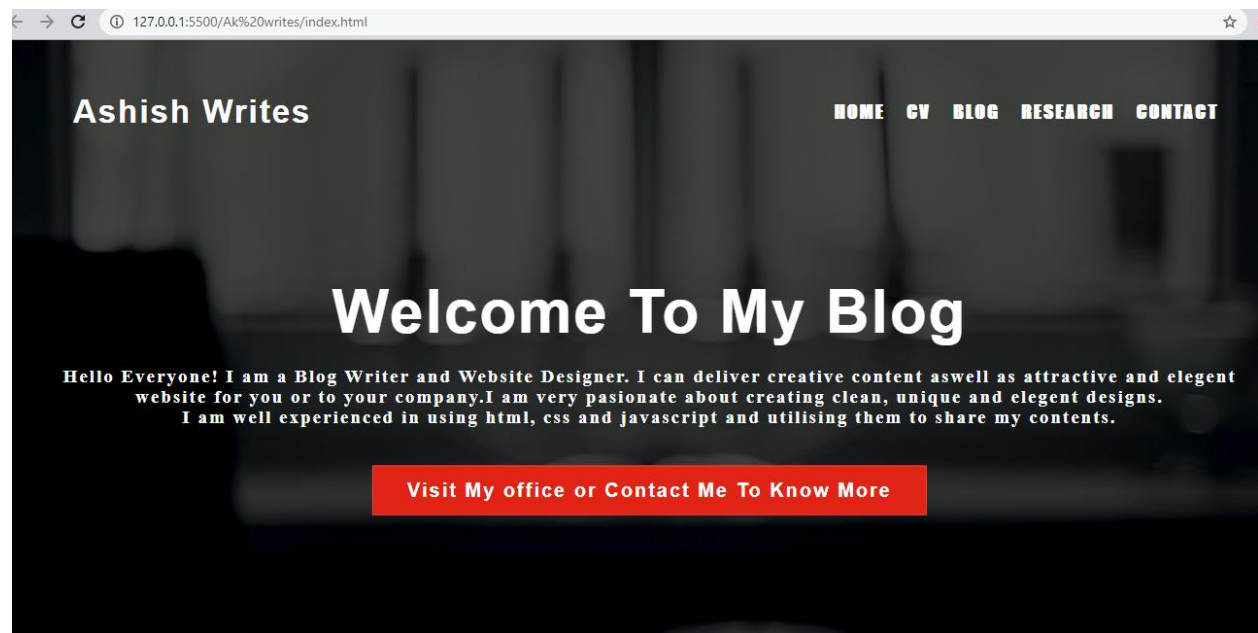


Figure 3: Screenshot of Home Page

The tags used for creating this web page are as follows:

First of all HTML basic structures is used such as head tag, title tag, body tag etc. The meta tag contains a page information. Inside a title tag "Welcome to Ashish Writes" is written. Inside the Head tag other tag such as title tag and Internal CSS is placed with property such as line-height, font-weight and font colour, font-style etc. The value is given according to the need of the context. Inside the body tag class are made which are header and text_box. Header class contains all the links inside the nav tag. The External CSS is also used in a Header class. text_Box class contains heading, paragraph and button links which can be seen above. Second Head tag consists of Internal CSS.

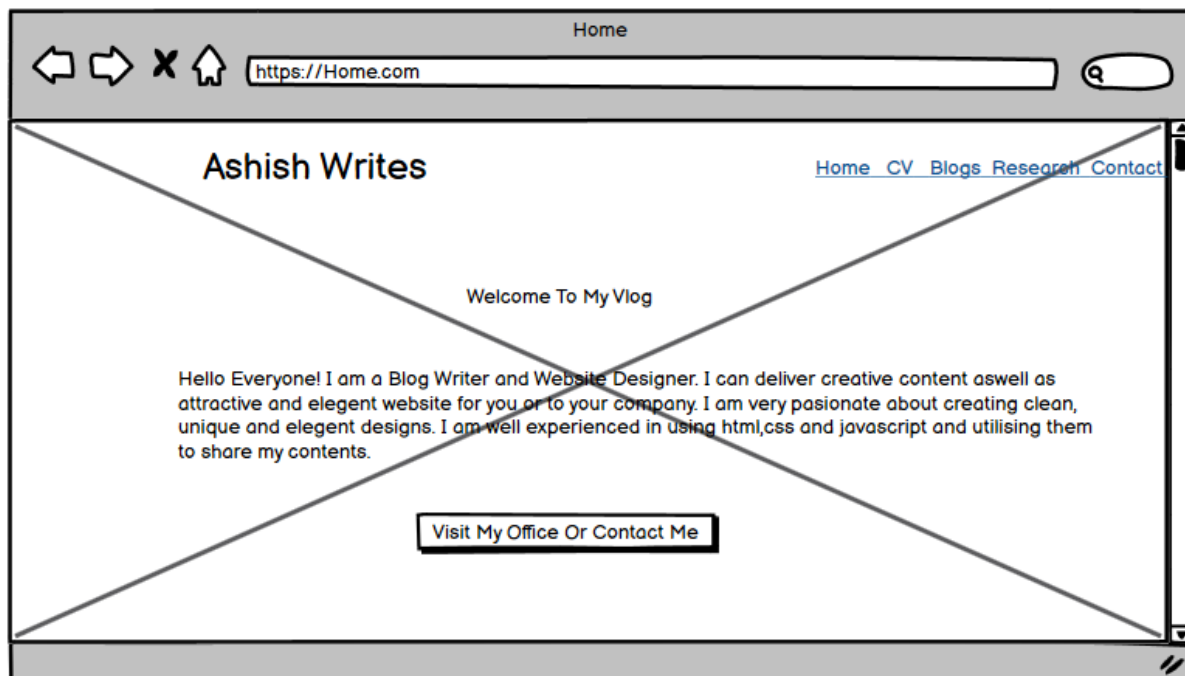


Figure 4: Screenshot of Balsamic Wireframe

3.2 CV

This is the second page of my website. In this website I have introduced myself as a blog writer and website creator. I have also provided all the necessary information regarding my education and work experience. This page contains 5 navigation menu which is for all other webpages. All these menu contains the hover effect after pointing by mouse cursor. This page also consists my hobbies and my skills. The anchor tag has helped to provide links for 5 different web pages.

) 127.0.0.1:5500/Ak%20writes/CV.html

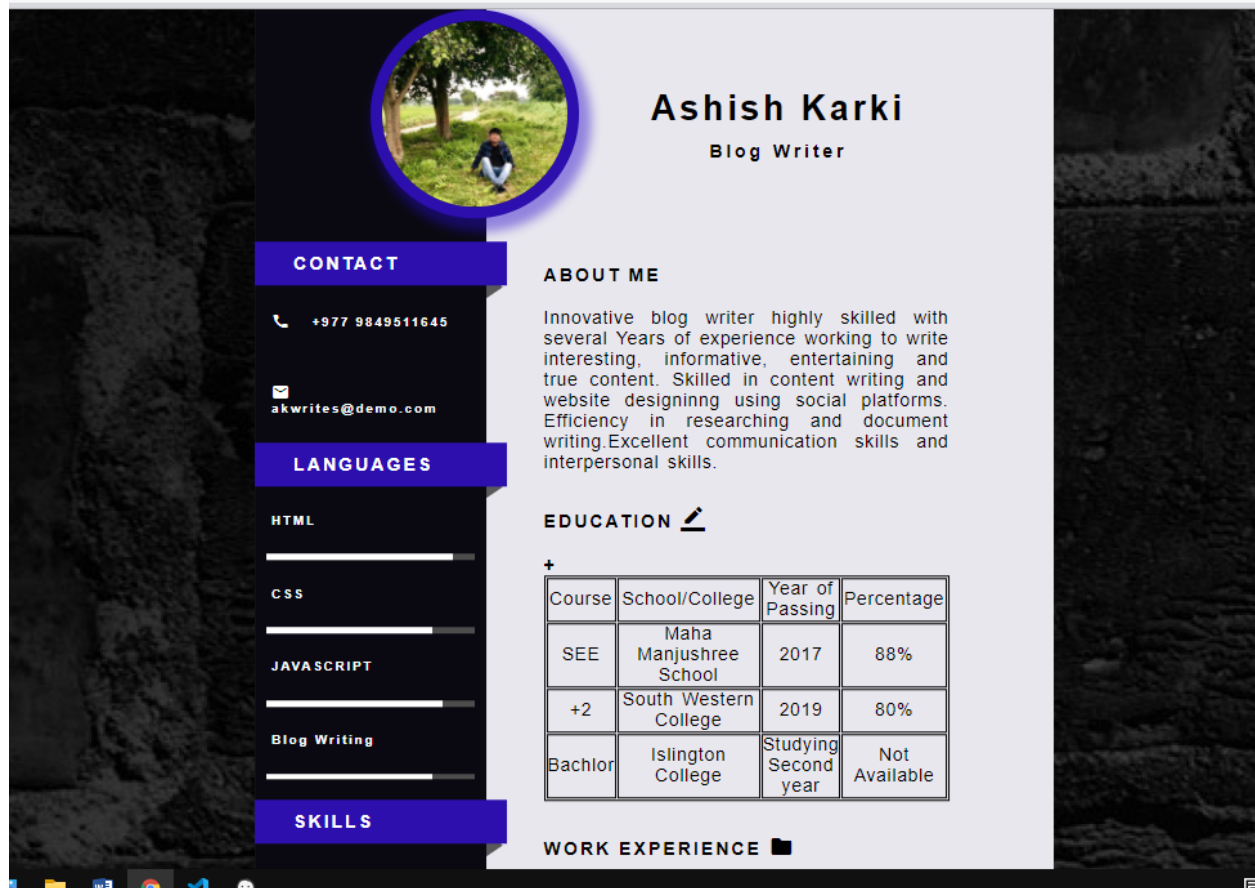


Figure 5 : Screenshot of a CV page

The tags used for creating this web page are as follows:

First of all HTML basic structures is used such as head tag, title tag, body tag etc. The meta tag contains a page information. Inside the Head tag, other tag such as title tag and Internal CSS is placed, with property such as margin-top, word-spacing, letter-spacing etc. The head tag is also provided with links of icon taken from web. The value is given according to the need of the context. Inside the body tag class are made which are nav-links, main, left, right, box-1, box-2etc. nav-links class contains all the links for the navigation bars , left class contains source of the personal image, p1 class contains all the icons material for email and contact. The class box-1 contains all the heading used in the page. The box-2 class contains the paragraphs, class material-icons icons3 contains the table format used in the page. The inline CSS is used in headings, the

Internal CSS is used for the unordered list, table data etc inside the head tag and the external CSS is used for these classes in the another file named by style.css .

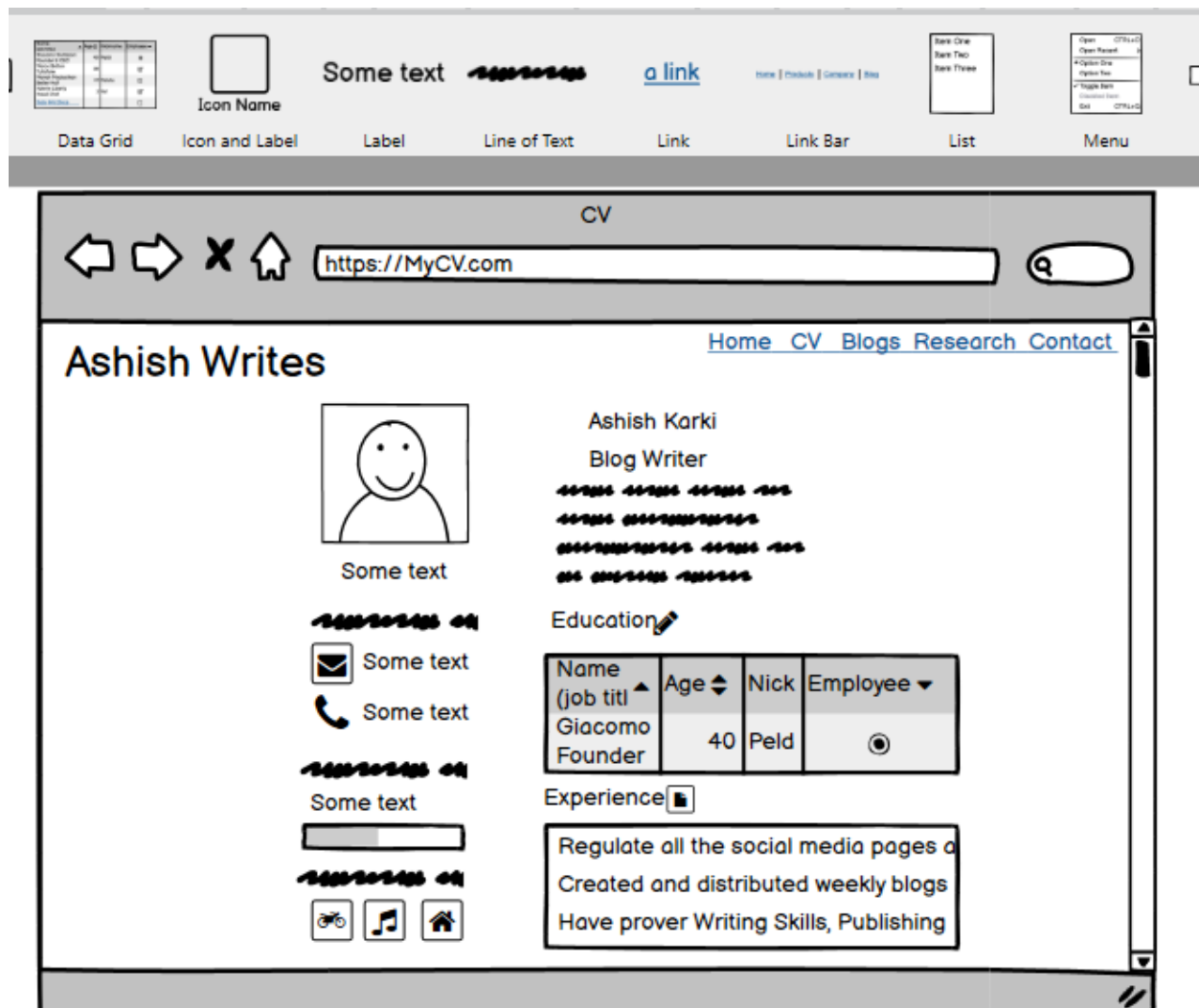


Figure 6: Screenshot of wireframe of CV

3.3 Blog

This is the third page of my website. In this website I have written and published my blog on the topic of “Use of Internet Technologies and Its impact in our daily life”. I have shared my personal views on this topic matter. This page contains the navigation menu and most of the paragraphs. This page contains 5 navigation menu which is for all other webpages.

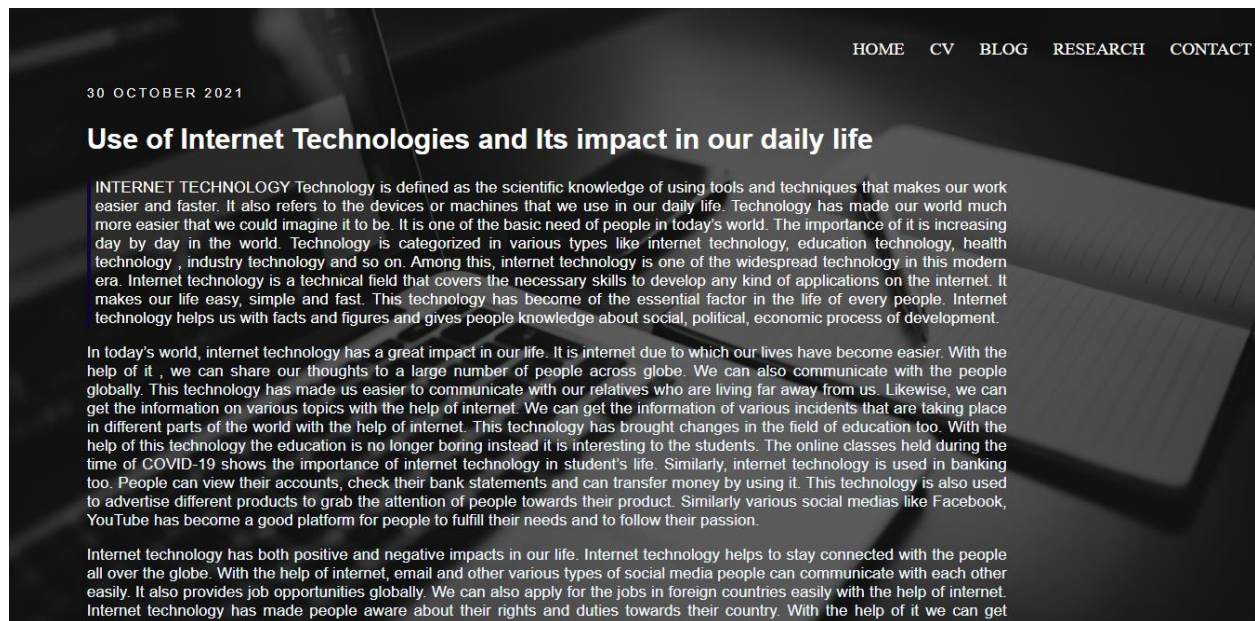


Figure 7 : Screenshot of page Blog

The tags used for creating this web page are as follows:

First of all HTML basic structures is used such as head tag, title tag, body tag etc. Inside the Head tag, other tag such as title tag and Internal CSS is placed, with property such as font-size, and font-weight with value 19px and 200px respectively. Inside the head tag link of CSS file is also provided which is named by blog_style.css. The value for CSS is given according to the need of the context. Inside the body tag numbers of class are made such as my_blog, date, navigation_links. Division tag is properly utilised for these classes. my_blog class contains another class known by date. Date class contains the date of the vlog created. Inside the date class headings and paragraphs are written. All the links for the navigation menu is kept under the class navigation_links. The inline CSS is used in headings and paragraphs. The Internal CSS is used for paragraphs and the external CSS is used for these classes in the another file named by blog_style.css .The External CSS property such as margin-bottom, color, letter-spacing, font-weight etc. is used for the class my_blog, date etc.

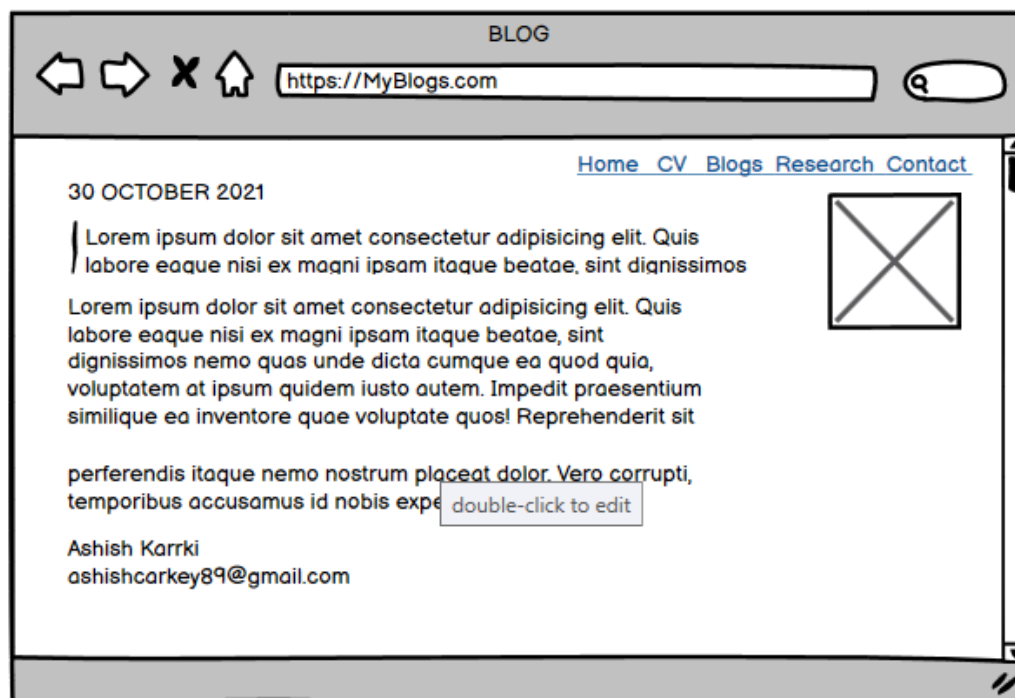


Figure 8: Screenshot of wireframe of Blog

3.4 Research

This is the fourth page of my website. In this website page I have explained my reference source, my research during project and my implementation of my research. I have properly utilised margins and column borders for my project. I have explained the topics that I need to research for completing my project. This page contains numbers of paragraphs and the images to explain my research. This website also contains the navigation menu. This page contains 5 navigation menu which helps to link other webpages.

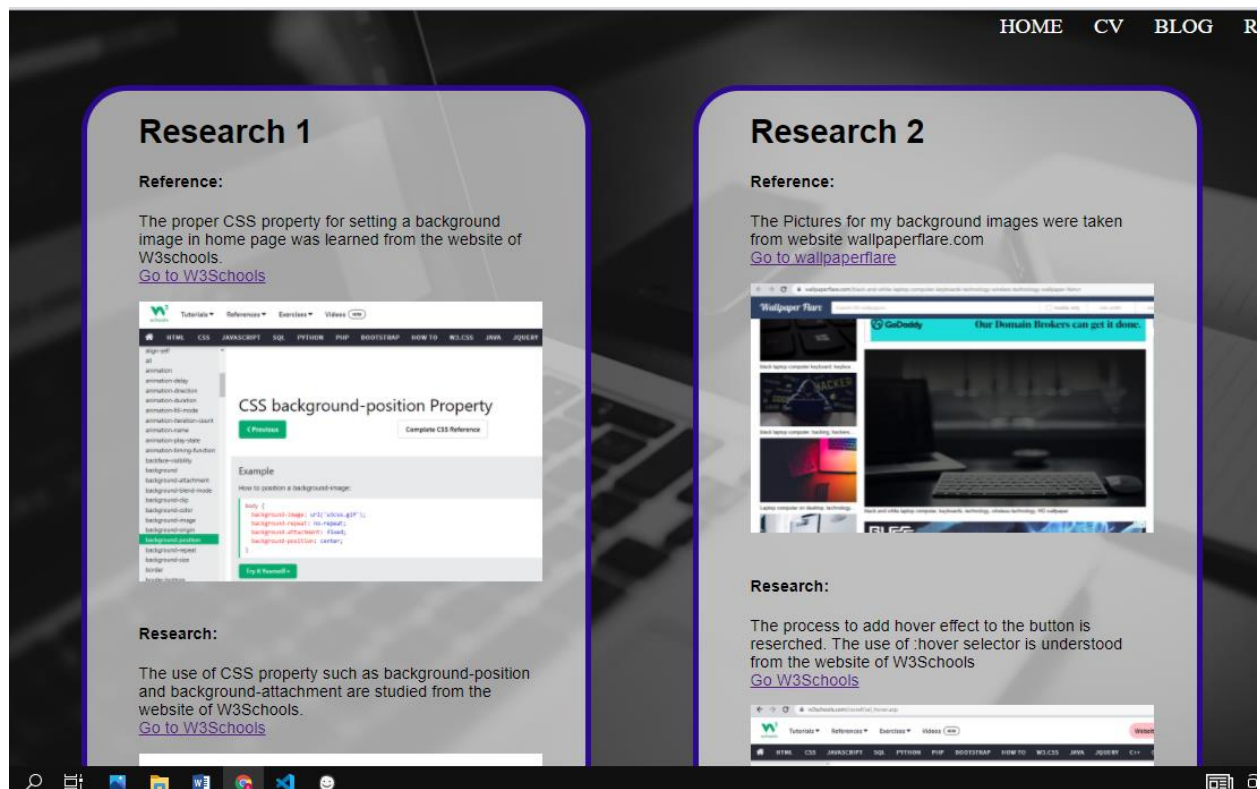


Figure 9 : Screenshot of research page

The tags used for creating this web page are as follows:

First of all HTML basic structures is used such as head tag, title tag, body tag etc. Inside the Head tag, other tag such as title tag and link is provided. Inside the head tag is link of CSS file is provided which is named by blog_style.css. Inside the body tag numbers of class are made such as research-container, research-flex. The research-flex class is made inside the research-container class. Division tag is properly utilised for these classes. Research-flex class contains the headings which are heading number, reference, research and implementation. Each heading consist the image and paragraphs on it. So the heading tags and paragraphs tags are mostly used in this page. All the links for the navigation menu is kept inside the class navigation_links. The inline CSS is used in class research-flex which is margin-left style. The external CSS is used for these classes in the another file named by blog_style.css .The external CSS property such padding-left, padding-right, padding-bottom etc. is used for the class research-flex and research-container.

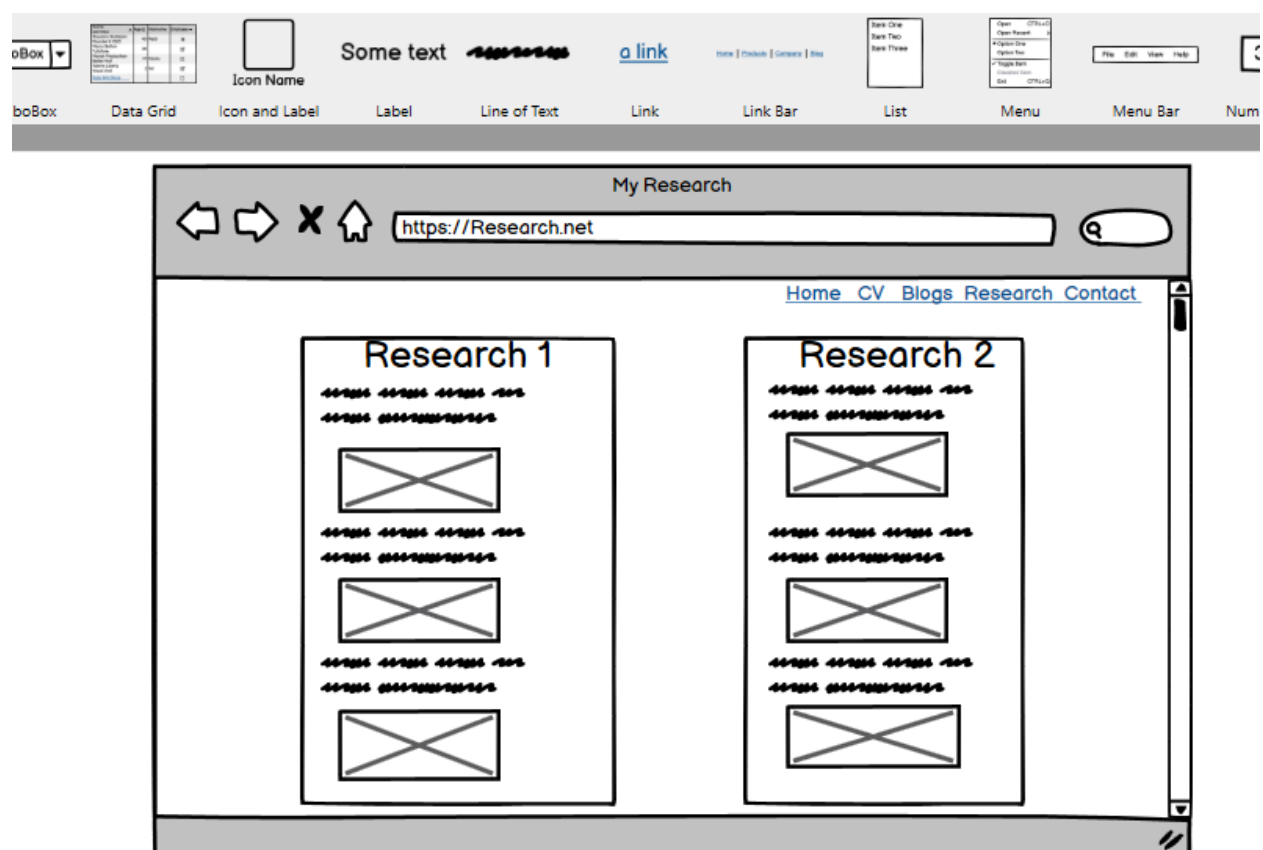


Figure 10: Screenshot of wireframe of research

3.5 Contact

This is the fifth and last page of my website. In this website I have given the user input feature to contact me. I have asked the input for their names, email address and Messages. I have used the features such as button to send, hover effect for button and navigation menu etc. I have properly used both internal and external JSS for this web page. Whenever user keeps input fields empty, then the alert message gets displayed and gets the sound effect after pressing the send button.

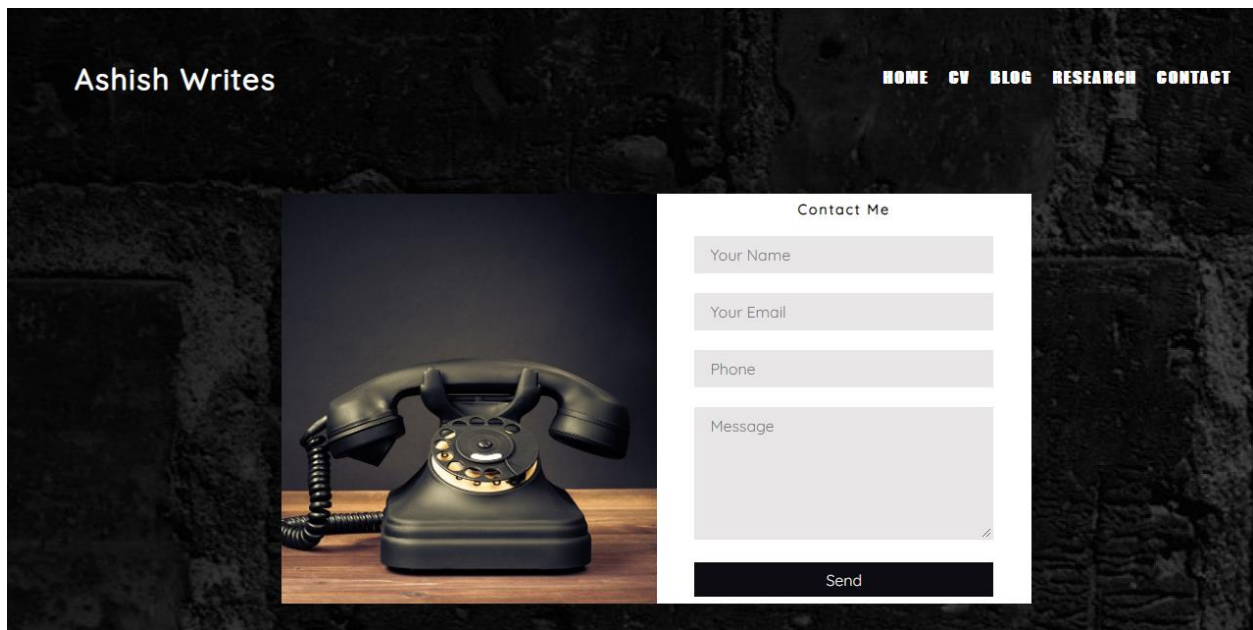


Figure 11: Screenshot of Contact webpage

The tags used for creating this web page are as follows:

First of all HTML basic structures is used such as head tag, title tag, body tag etc. Inside the Head tag, other tag such as title tag and font shape link is provided from google. Inside the head tag link of CSS file which is named by style.css is also made. Inside the body tag numbers of class are made which are second_header, nav-links, containers, contact_box, leftone and rightone. The leftone and rightone class is made inside the containers class. Division tag is properly utilised for these classes. Class nav-links contains all the link needed for navigation menu. Second_header class contains the headings and input text features. The input from user is taken in the form of text. Button class contains the send button along with hover effects. In this page the input text type is more used because this page contains the input of the users. The inline CSS is used in for a headings whereas the external CSS is used for these classes in another file named by style.css .The external CSS property such position, width, height, display, align-items, padding are being used by these classes. Besides these properties, this page also contains the internal and external types of JavaScript. Internal JavaScript is used for the button sound whereas external JavaScript is used for pop up alert message.

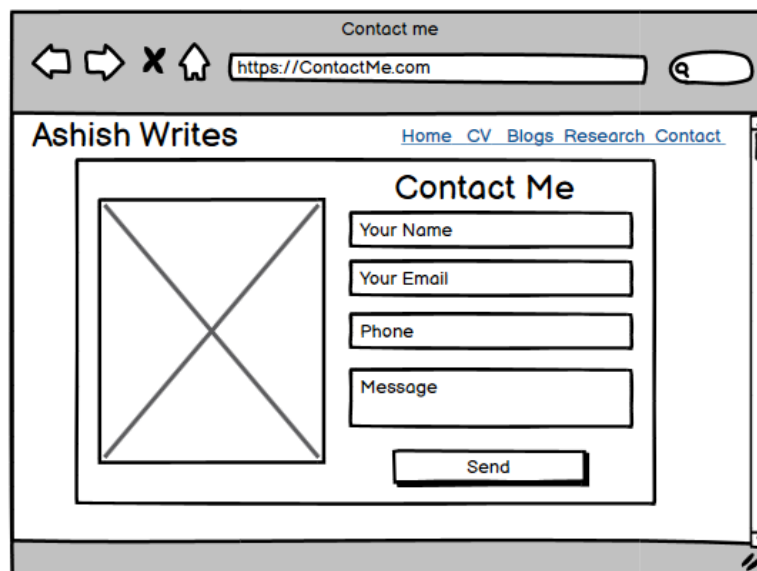


Figure 12: Screenshot of wireframe of contact

3. Testing

Testing Number 1:

Objective	To Pop up the alert message after pressing the “send” button with empty text fields.
Action	In contact page all the input fields were left empty and send button is pressed.
Expected Result	To display the alert message in the top of the website.
Actual Result	Alert message with a note “Empty field found. Please fill all the field” is displayed. Alert message is also displayed if we
Test	The test was successful.

Table 1: Test Number 1

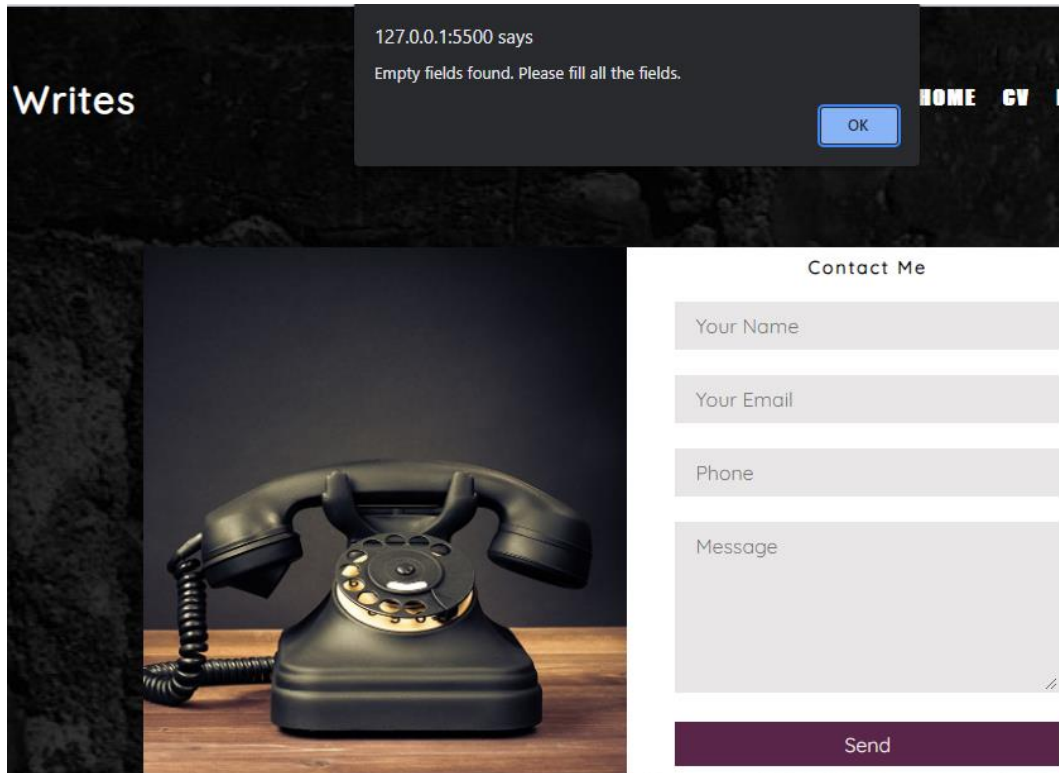
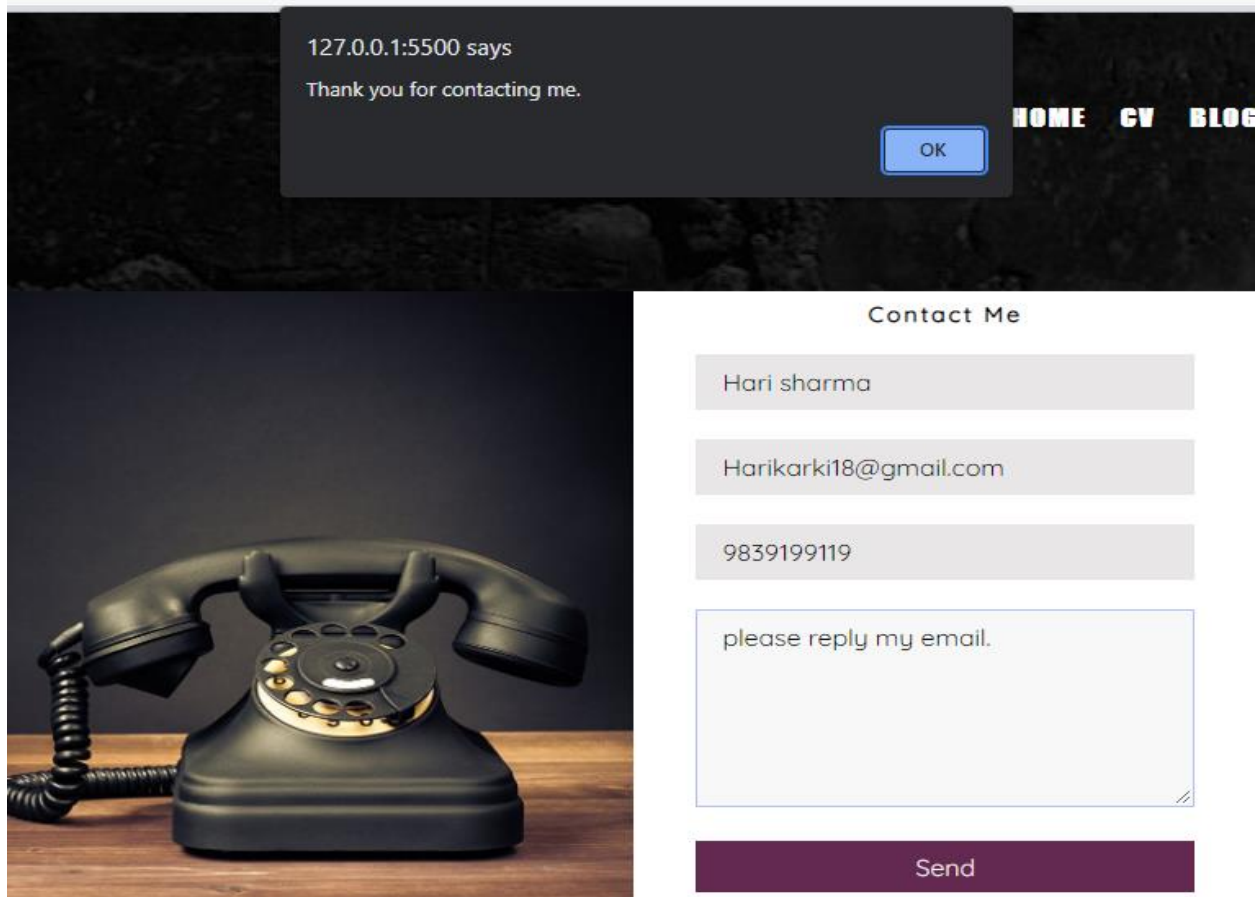


Figure 13: Test Number 1

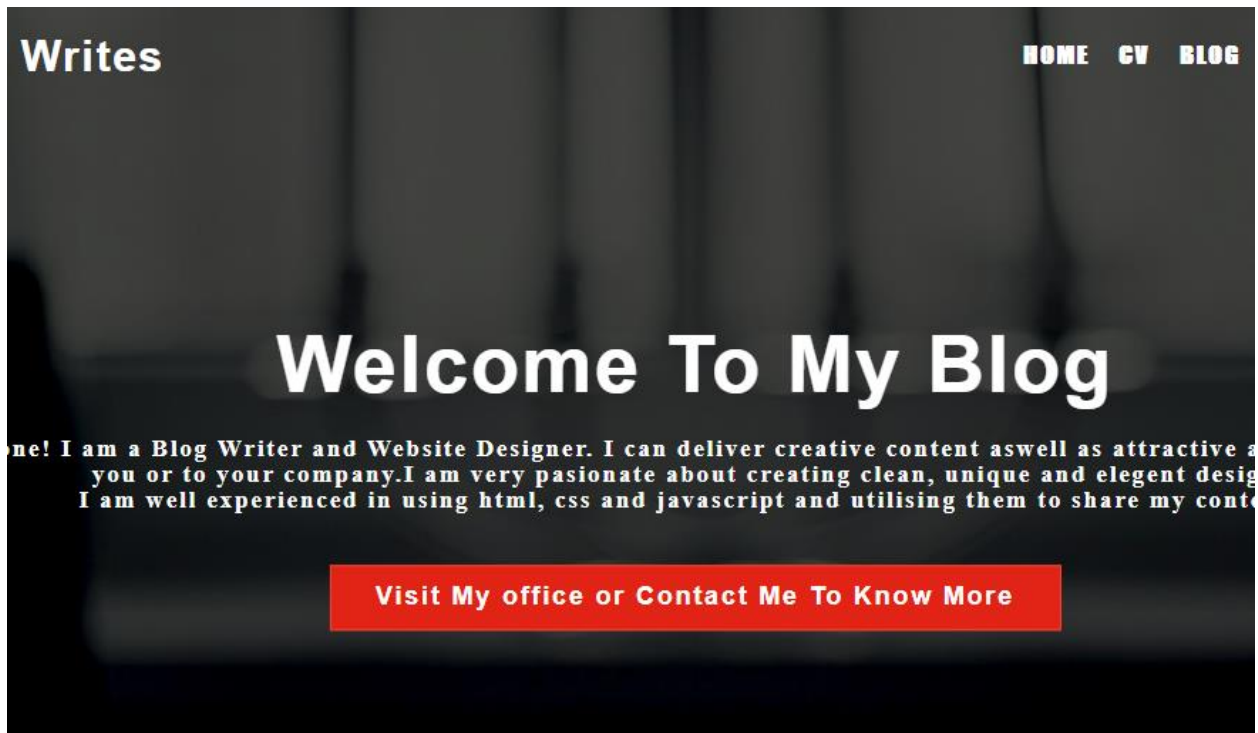
Testing Number 2:

Objective	To Pop up the alert message after pressing the “send” button with all text fields filled.
Action	In contact page all the input fields were filled and send button is pressed.
Expected Result	To display the alert message in the top of the website.
Actual Result	Alert message with a note “Thank you for contacting me” is displayed.
Test	The test was successful.

Table 2: Test Number 2*Figure 14: Test Number 2*

Testing Number 3:

Objective	To show the hover effect If the mouse cursor is pointed towards the button.
Action	In Home page mouse cursor is placed above the button.
Expected Result	The change of colour effect in the button should occur.
Actual Result	The button colour was changed to orange.
Test	The test was successful.

Table 3: Table Number 3*Figure 15: Test Number 3*

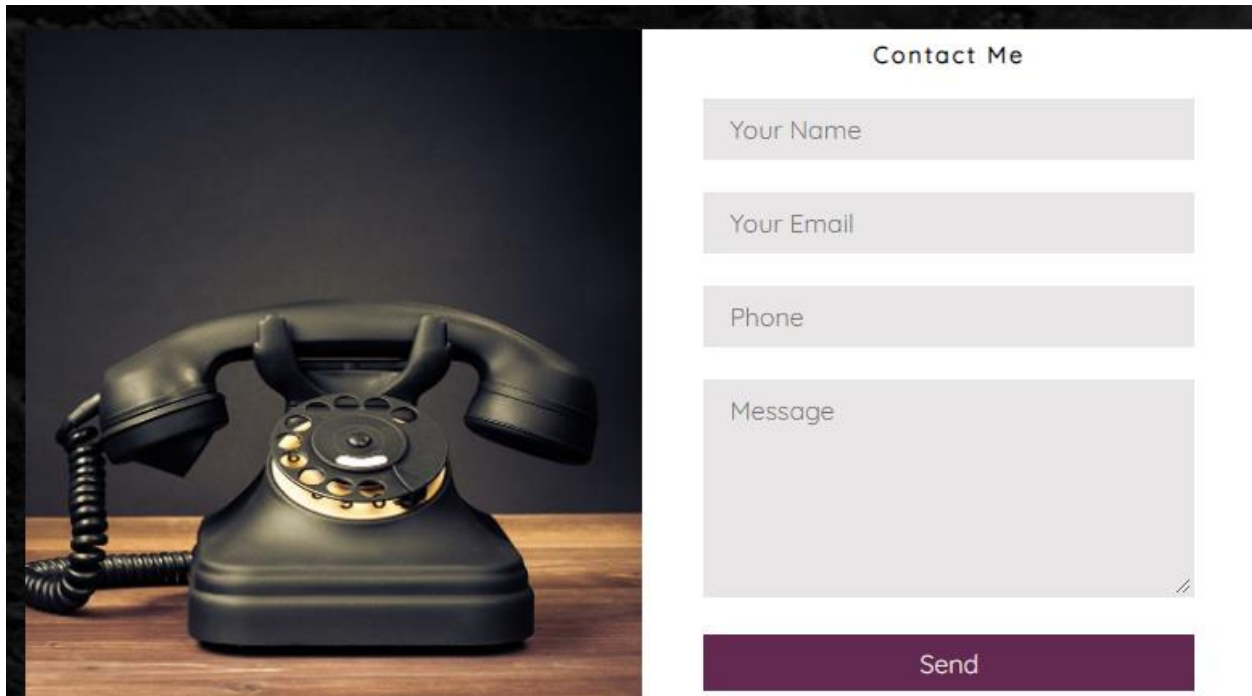
Testing Number 4:

Objective	To show the hover effect If the mouse cursor is pointed towards the navigation menu and also the respective web pages should be opened after clicking those menu.
Action	In CV page mouse cursor is placed above the menu bars and the contact menu is clicked.
Expected Result	The change of colour effect in the menu bars should occur and after pressing the contact menu, contact webpage should be displayed
Actual Result	The navigation menu colour was changed to red and the CONTACT web page is opened after clicking the contact menu.
Test	The test was successful.

Table 4: Test Number 4*Figure 16: Test Number 4*

Testing Number 5:

Objective	To play a sound after clicking the button in contact page
Action	In Contact page "Send" button is pressed.
Expected Result	The mouse clicking sound should be played.
Actual Result	The button clicking sound was heard.
Test	The test was successful.

Table 5: Table Number 5*Figure 17: Test Number 5*

4. Conclusion

After struggling many days for my project I am very happy that my project has been completely finished. I have successfully implemented every research I made in order to complete this coursework. The path to complete this project was quite fun and interesting for me. I have properly understood the important concepts that are required for website development. Now, concepts of using HTML, CSS, JavaScript are very crystal clear for me. I have really improved my knowledge for the better use of CSS and JavaScript languages. After understanding all the basic HTML tags, I have studied a lot and researched about the best style properties of CSS. So I have used its various properties in my project to make my website look better. I was also having a fun understanding every single property of CSS. So among all three components, I loved working with CSS styles because it really gave me satisfaction after seeing my beautiful website.

Besides HTML and CSS enrolling with JavaScript was also quite fun and interesting. I found out that the JavaScript is also equally important as the CSS and HTML because it helps to make our website fully responsive and interactive. So I began to my research to understand functions, loops, conditional statements, array etc and tried various small projects such as music playing through buttons, Alert messages displaying etc. So enrolling in these minor projects was quite fun and interesting too. So I also have used these minor projects in my Website and made my website quite responsive.

During my project I also faced lots of obstacles but I never got tired dealing with these sort of problems. My main problem I faced doing this project is I could not give near proper value for my CSS style due to which my excess amount of time is wasted searching the correct and nearer value from my context although it was fun. Besides this, I could not properly catch the concept of array list in JavaScript but still I am researching about it, because it is also a very useful and important topic that needs to be covered. To overcome such problems I have studied and researched from various

educational website such as W3Schools, geek for geeks, YouTube etc. I also have revisited every videos from my teachers and tried to expand my research more. Now I have almost understood the important basic concepts for creating a beautiful and responsive website.

This website creating project has really helped us to extend our research ability and made us hardworking. I am really happy to understand the important concept of website creation because creating a website also plays the important role in these generation. It can be used to expressing our Ideas, sharing our vision etc. Besides this it also plays a important sector in communication, education and business etc. So I am very happy that we got a chance to enrol with such an important project and hope that this types of project will more available in upcoming days. I am also really thankful for my respected teachers for teaching us an important concept of website creation.

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