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1. Introduction

A website is a main location of web pages which are related and fit by visiting homepage of the website using browser. The first website was launched on August 6, 1991 which was built by Tim Berners-Lee at CERN. A website contains more than one web page or a number of web pages which does not need a file extension like .htm or .html to be a web page. Today, Internet consist of billions of website which are created by any business, government or different person. (Anon., 2019)

A computer or an individual informs us about how to get to their website by giving us the address of their home page from where we can get to other pages. Since, site implies a geographic place, a website can be confused with a web server. Web server is a computer that holds the files for one or more sites where as website is a site which contains number of pages. Website may spread over a number of servers in various geographic locations where IBM is a good example and consists of thousands of files over many servers in world-wide locations. (Anon., n.d.)

Mainly, Website is created using CSS and 2 different programming language named as HTML and JavaScript which are described as shown below

a) HTML

HTML stands for Hyper Text Markup Language which is used for creating webpages and describes the structure of a web page. It consists of series of elements which is represented by tags and tell the browser how to display the content. HTML tags which are surrounded by angle brackets and that normally comes in pairs like <h></h> label pieces of content such as "heading", "Paragraph", "tabel" and so on. Similarly, HTML tags are not displayed by browsers but they use them to render the content. (Anon., n.d.)

Figure 1: HTML

b) CSS

CSS stands for Cascading Style Sheets. It is a programming language that describes the style of a HTML document and how HTML elements should be displayed. HTML mainly focuses on the structure and content where as CSS presents the element such as layout, color and font. Before the invention of CSS in 1996, all these elements needed to be written in HTML which makes the documents sophisticated. CSS makes easy to create links to other documents, is lighter than array layout and consumes a lot bandwidth for which many developers prefer to use CSS. Similarly, the style sheet is loaded only once and is stored in the cache for which pages load faster. The project uses CSS3 where styles can be added in three different ways as:

a) Internal CSS

b) External CSS

c) Inline CSS

Figure 2: CSS

(Anon., n.d.)

c) JavaScript

JavaScript and Java are totally two different Programming languages. JavaScript is one of the most used object-oriented programming languages of HTML and web which is easy to learn. JavaScript forms the basis of front-end web development and allow to create interactive along with HTML and CSS. JavaScript is designed to make web development easier, more attractive and also to create responsive webpages. Similarly, with the help of JavaScript we can create different things like video players, animations and so on. Moreover, three different programming languages like HTML, CSS and JavaScript worked together to create modern web pages.

```javascript
28  //declare constant values names
29  var ONE = "ONE";
30  var TWO = "TWO";
31  //create a repositpory for them
32  var ConstValues = (function() {
33      //(function(){})() creates a scoped function.
34      //only get method is visible from outside, so no one can
35      //change data
36      var data = {};
37
38      //create two constant values
39      data[ONE] = "uno";
40      data[TWO] = "due";
41
42      //everything inside return will be visible outside
43      return {
44          get: function(name) { return data[name]; }
45      };
46  })();
47
```

Figure 3: JavaScript

(Anon., n.d.)

1.1. Importance of Website

Since, website is a collection of web pages, many government, colleges and billions of people are using it because of its own importance which are as follows,

- It is important to increase the visibility.
- It is important to establish the credibility.
- It is important for gaining education.
- It is important for communication.
- It is important for raising awareness through blogs and reports presented in a webpage.
- It is used for different companies marketing and advertisement.
- It is widely used for multi-media purpose.

1.2. Goals and objectives

Website are the series or collection of web pages which has its own goals and objectives through which we present ourselves in the form of website. The main motto of creating website is that we can provide excessive information regarding our business or any program throughout the world and share our views in an attractive way where we can attract lots of viewers or customers. We become familiar with different scripting language such as HTML, JavaScript and CSS while creating website and create beautiful or an attractive portfolio and gain knowledge about different tag, navigation bars and so on. My portfolio consist of all together 5 pages named as Home, CV, Blog, Research and Contact where you can get brief explanation about me, about the knowledge of technology and so on. In conclusion, website are the sites through we get different information.

1.3. Tools and Software used while Creating Websites

a) Snipping Tools

Snipping tools are the tools which we use while cropping the pictures.
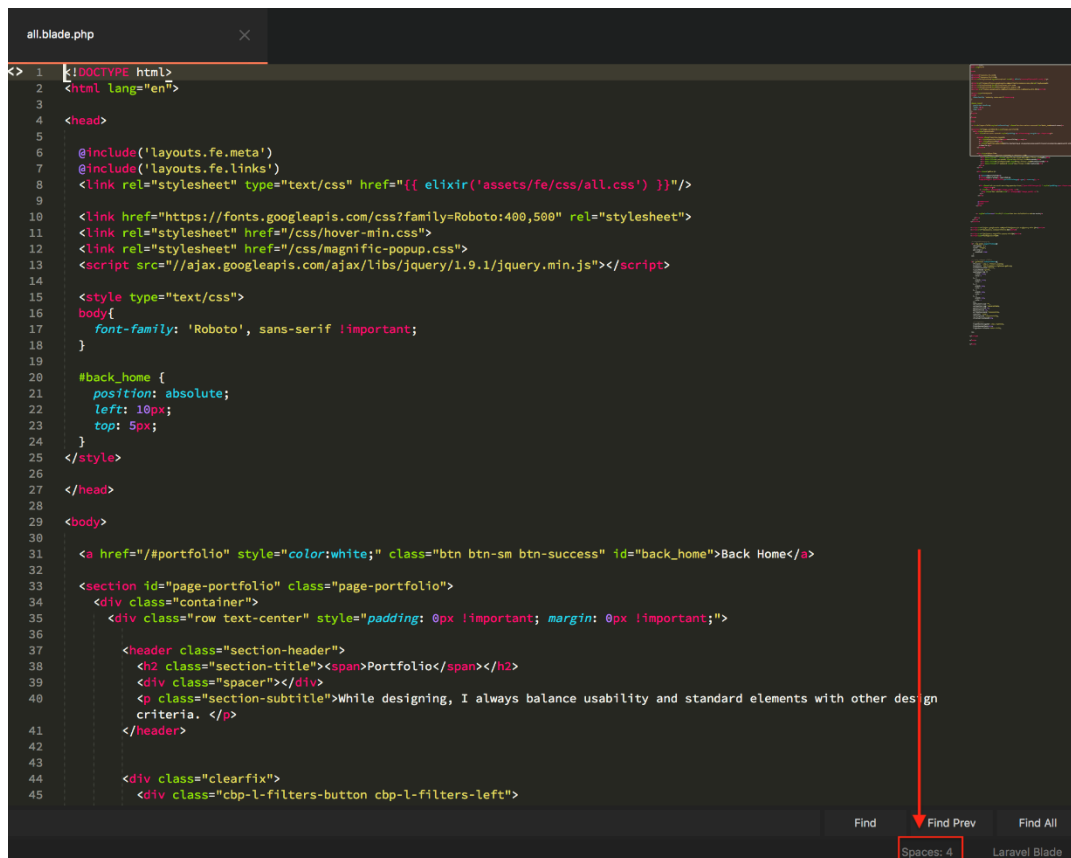
Snipping Tool

Figure 4: Snipping Tools

b) Sublime Text

Sublime Text is an application software where we use different scripting languages to create a website.

Figure 5: Sublime

c) Word 2016

Microsoft Word 2016 is a desktop software where we create different documentation, letters and many more.

Figure 6: Microsoft Word

2. Wire Frame

A wireframe is a way or an art of designing a website service at its structure level which is mainly used to lay out the content and functionality on a page which demonstrates which interface elements will exist on key pages which takes into user needs. It is a critical part of designing process which mainly used in the development process to establish the basis structure of a page before visual design and is essential in UI design. The main aim of wireframe is to provide a visual understanding of a page and make us easier to make a project before the creative phase gets under way. It also can be used to create the navigation to make certain structure and terminology for the site meets user expectations. It takes place early in the project lifecycle and often used to complete the user Centered design process which can be simply hand drawn which are especially best to create in HTML is they are going to be used for prototype usability test. (Anon., n.d.)

Similarly, while I was creating website I have created different wireframes for my website designing which contain many different pages such as Home, CV, Blog, Research and Contact.

a) Home Page

Here, while creating the wire frame of Home page, I have linked 5 different pages along with Home page Named as Home, CV, Blog, Research and Contact. My home pages consist of a background picture and my short introduction about me. Similarly, it consist of a basic elements like navigation bar which is located in all the pages.
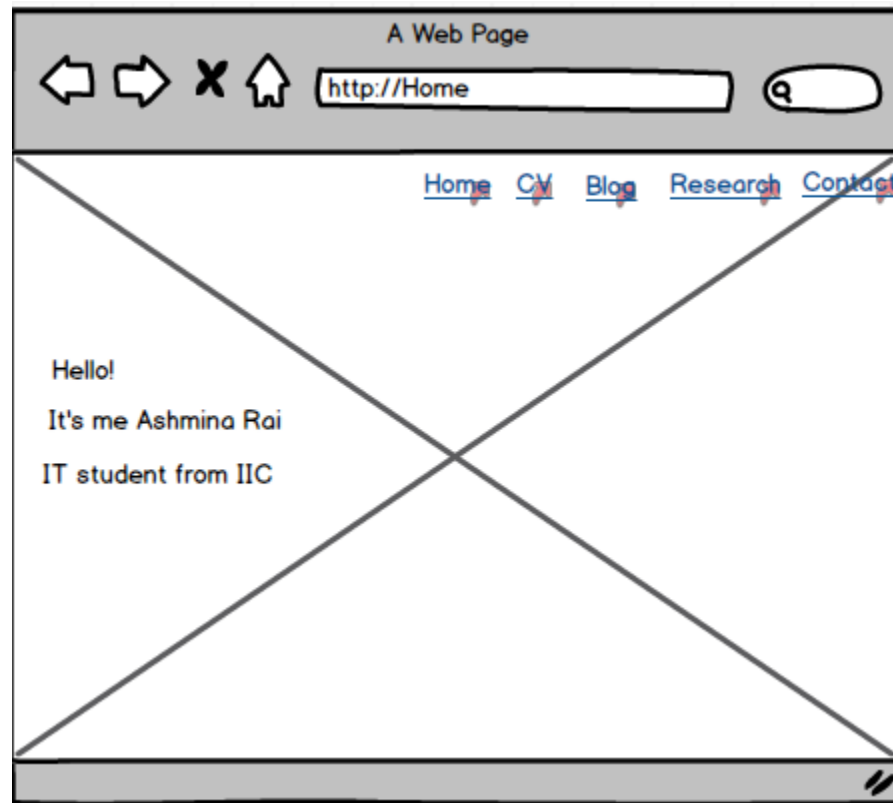
Figure 7: Wire Frame of Home page

Here, is the actual image of my home page which I designed in Sublime using different languages such as Java Script, HTML and CSS.
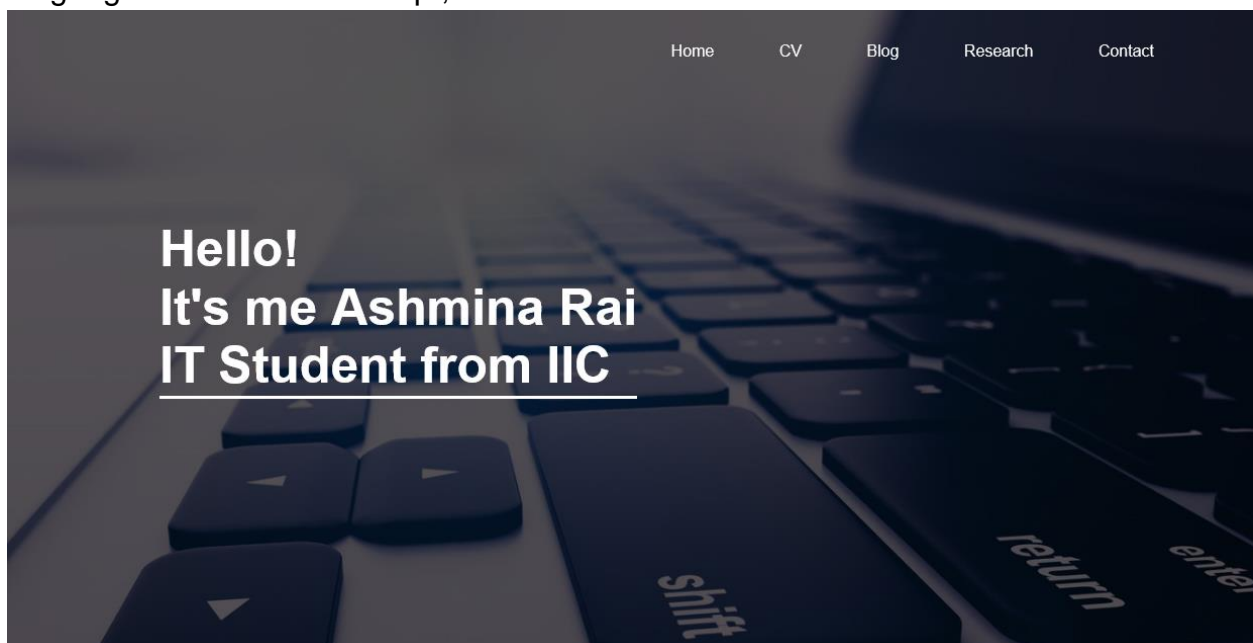

Figure 8: Web design of Home Page

b) CV

While, creating the wire frame of CV page, I have inserted basic elements as navigation bar which links us to different page. It consist of my images and the brief introduction about me. Similarly, I have used hover effect on my CV where the color changes when the cursor is taken to my introduction part.
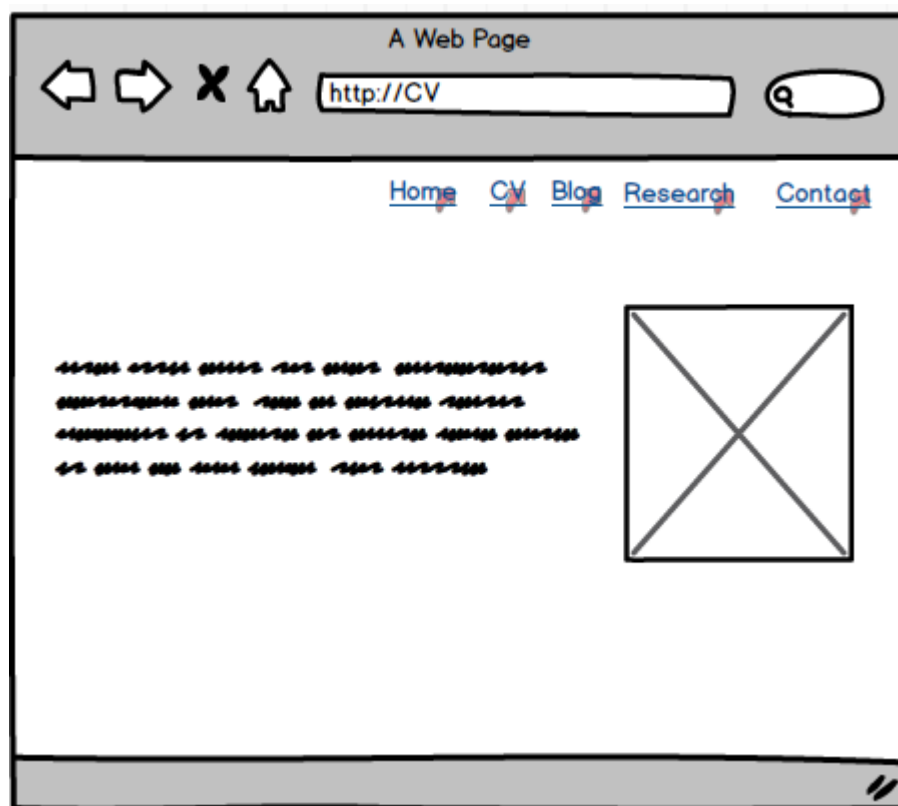
Figure 9: Wire Frame of CV

Here, is the actual design of my CV Page which I created in sublime using different languages Java Script, CSS and HTML.
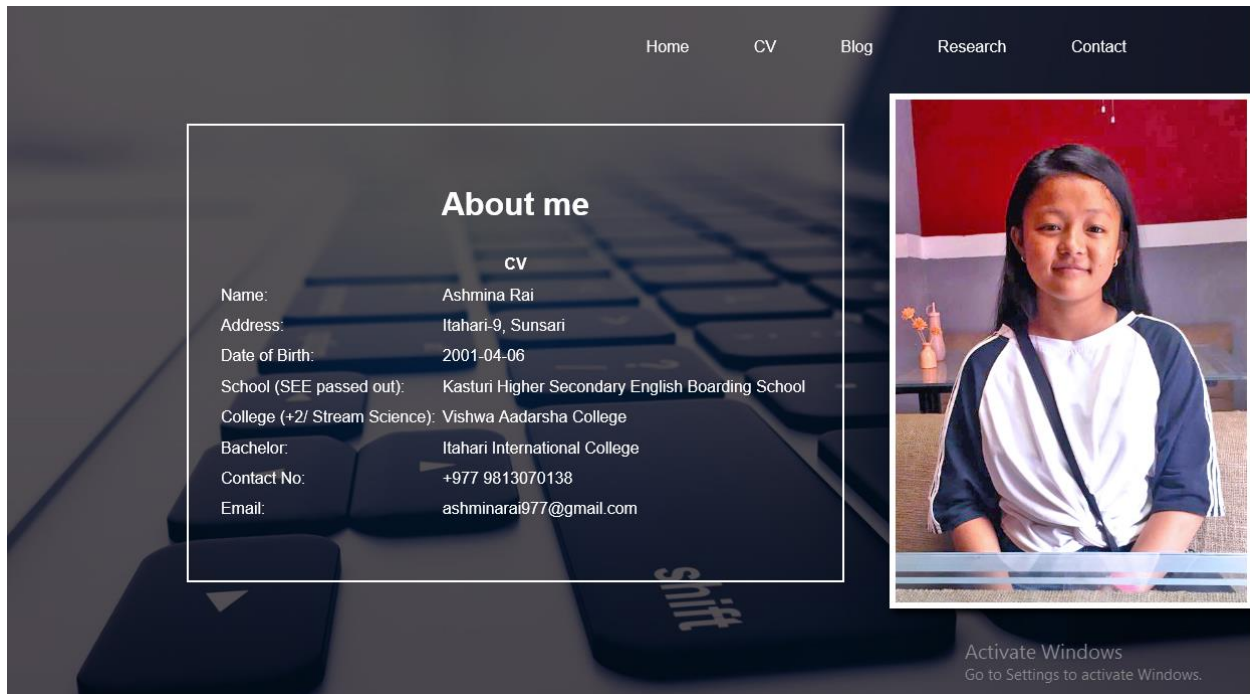
Figure 10: Web design of CV page

c) Blog

Here, while creating wireframe of Blog page, I have used navigation bars, pictures and describe about the technology impact on our daily life.
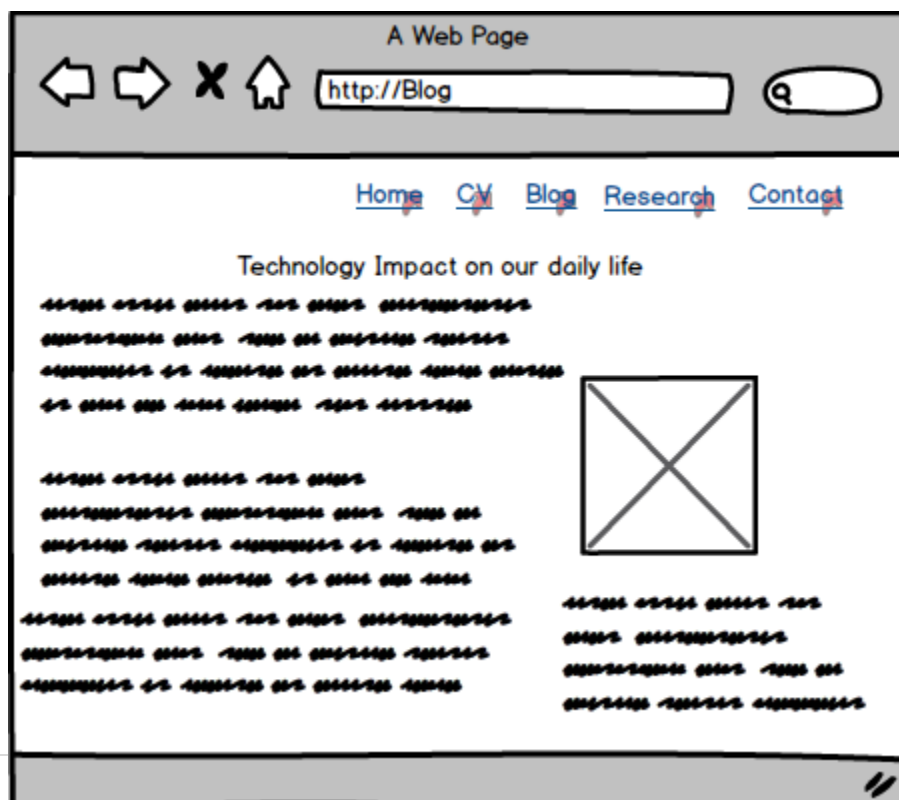
Figure 11: Wireframe of Blog page

Here, is the actual design of my blog page which I created in sublime using different language CSS, java Script and HTML.
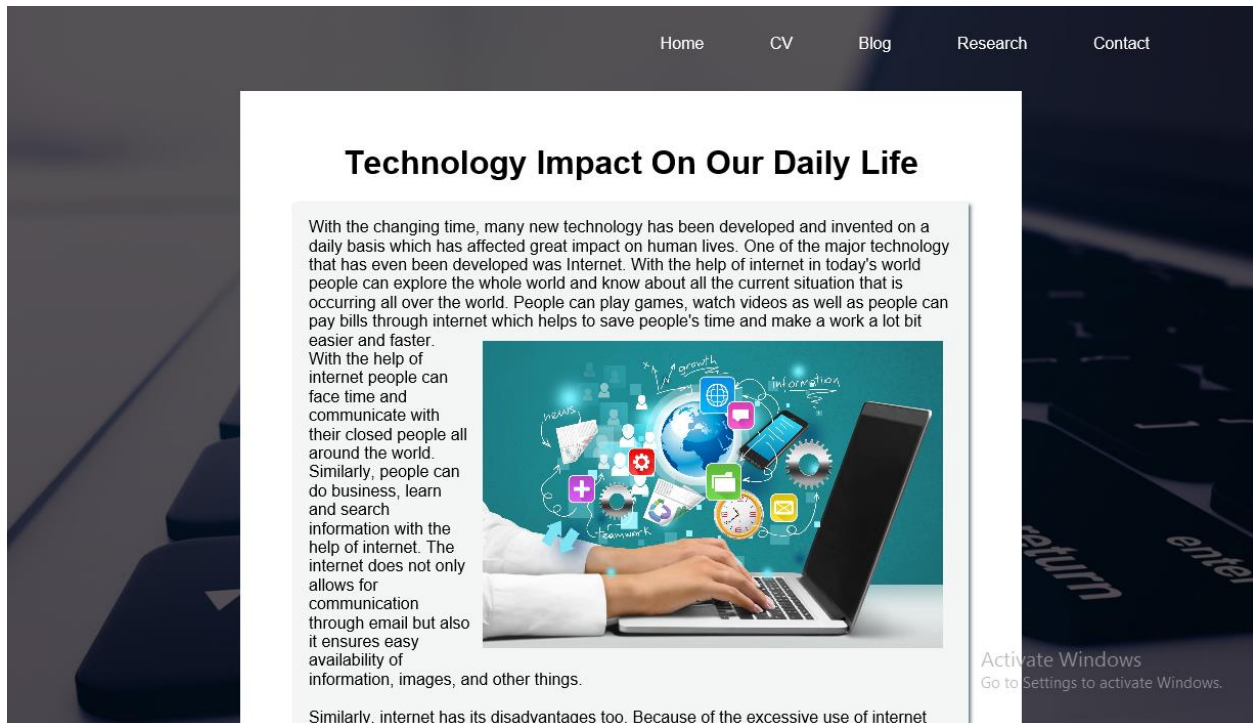
Figure 12: Web design of Blog Page

d) Research

While creating the wire frame of Research page, I have used different navigation bars and at least 5 minimum research images and a brief introduction on how it helped while creating a webpage**.**
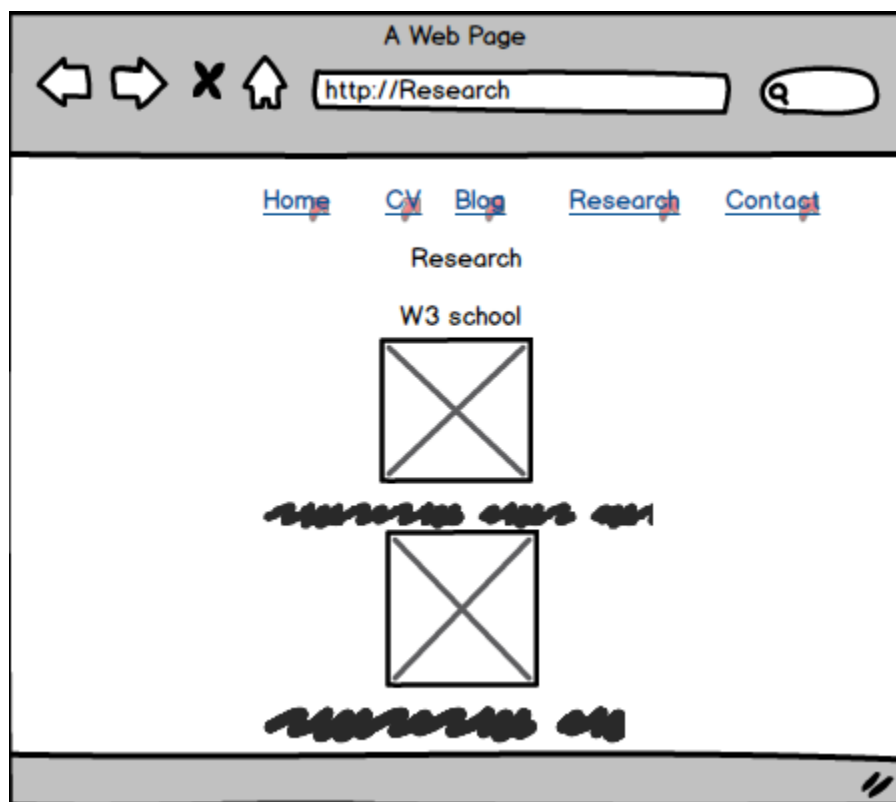
Figure 13: Wire frame of Research page

Here, is the actual image/ design of Research page which I created in sublime using different language such as HTML, java Script and CSS.
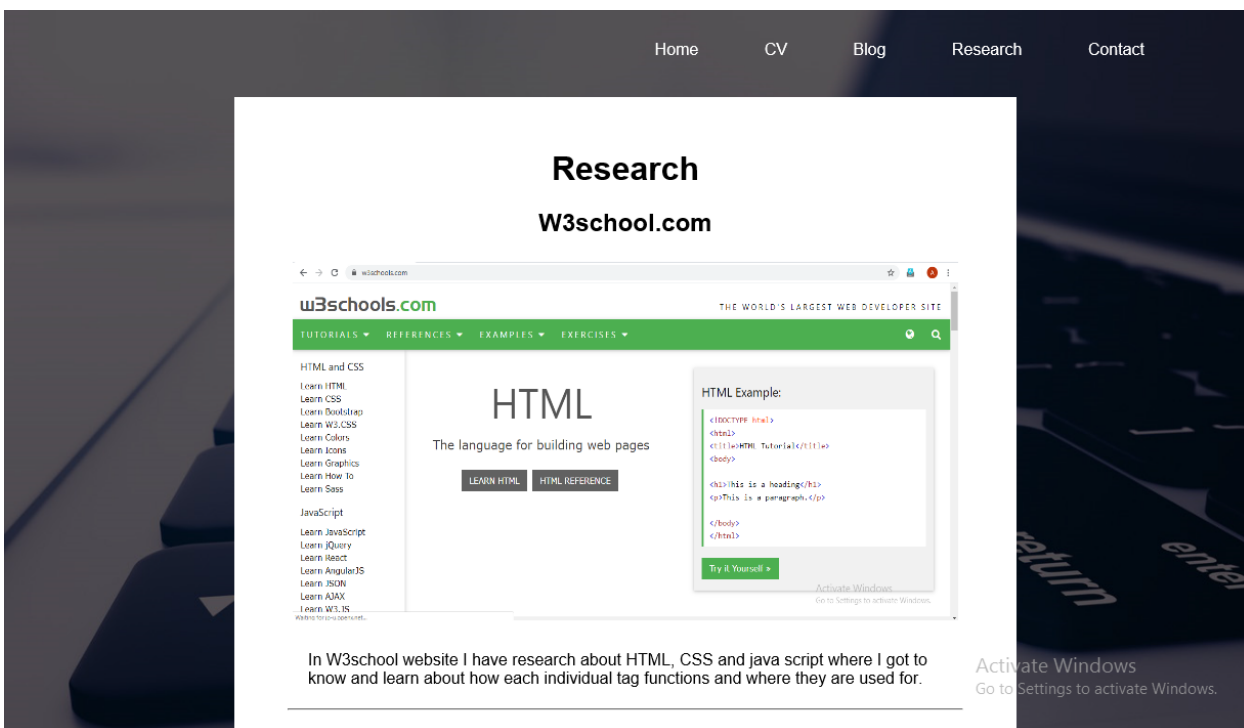
Figure 14: web design of Research Page

e) Contact

Here, while creating the wireframe of contact page, along with navigation bars I have used input tag, buttons and Pop-up features where users fill the given options. Similarly, even if one blank is left blank, it alerts you by popping the message in your screen.
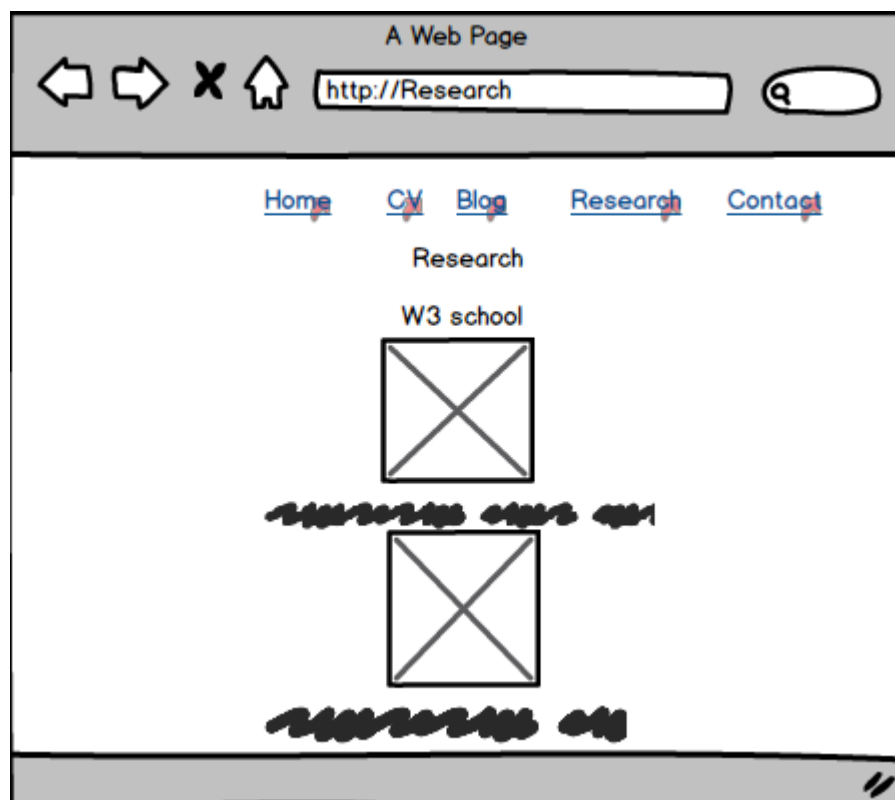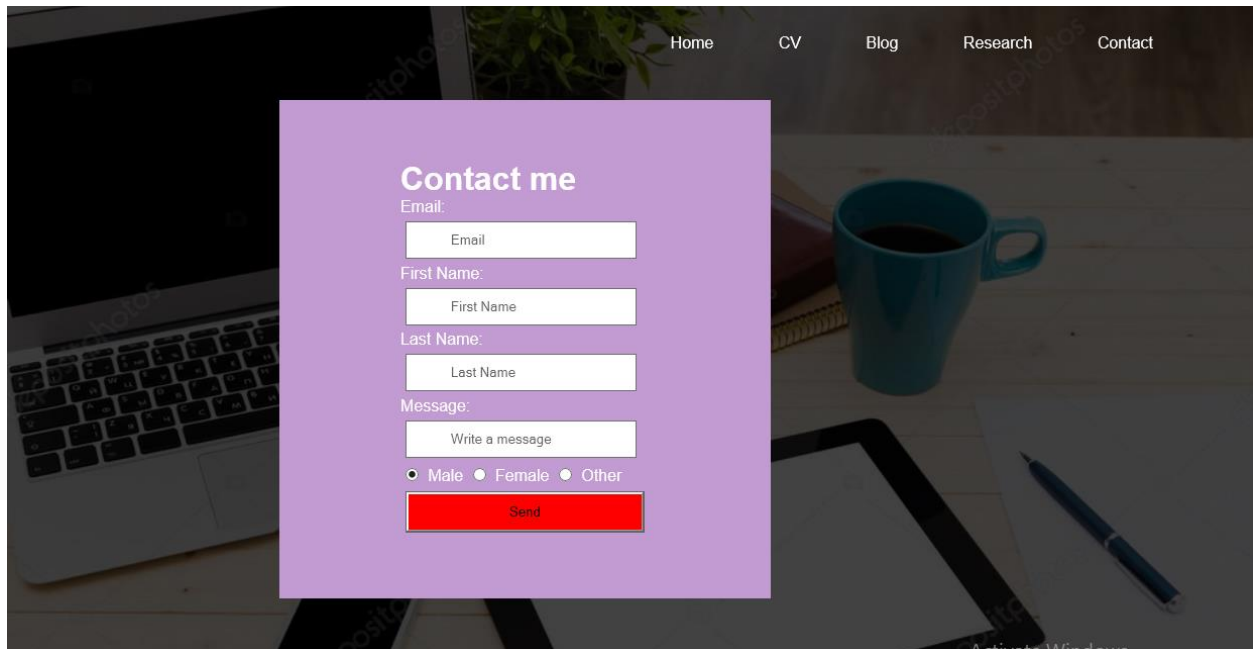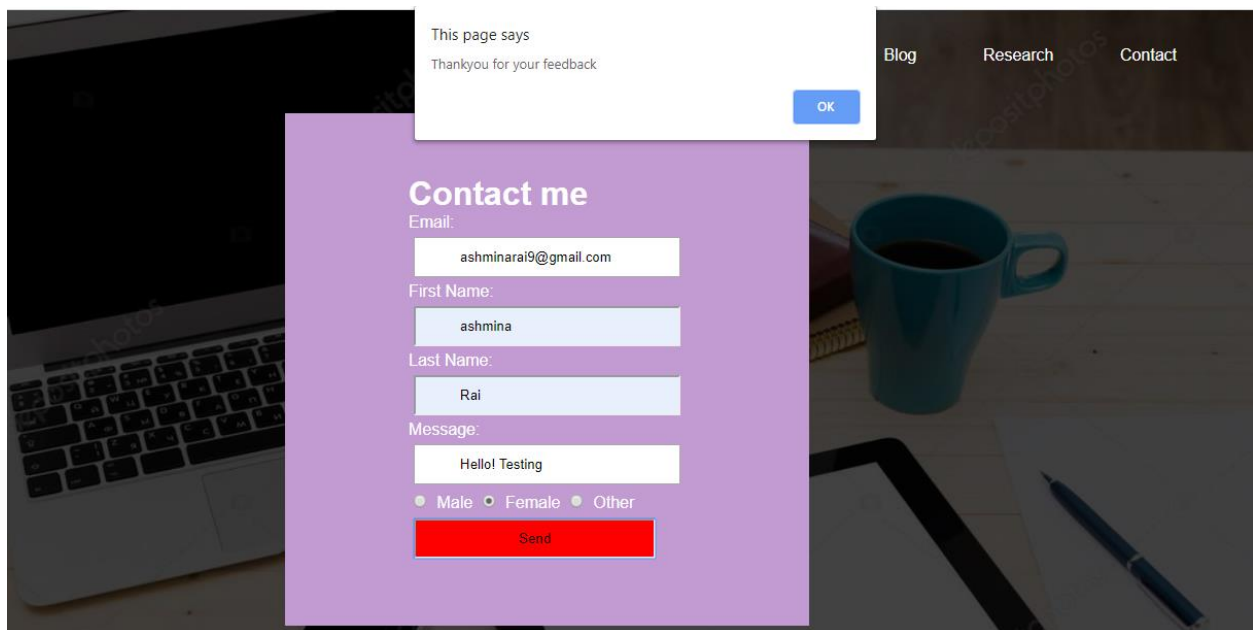

Figure 15: Wire Frame of Contact page

Here, is the actual web design/ image of my Research page that I created on sublime Text using different languages such as HTML, java Script and CSS.

Figure 16: Web design of Contact page

Figure 17: When we fill all the information

Figure 18: When even a single form is left blank

3. Testing

Test 1

Objective	To check Whether the navigation bar works or not.
Action	Clicked on the CV button when in home page.
Expected Result	When the curser is taken and clicked on CV button CV page opens.
Actual Result	CV page opened when clicked in CV button.
Test	Test Failed.

Table 1: Test 1

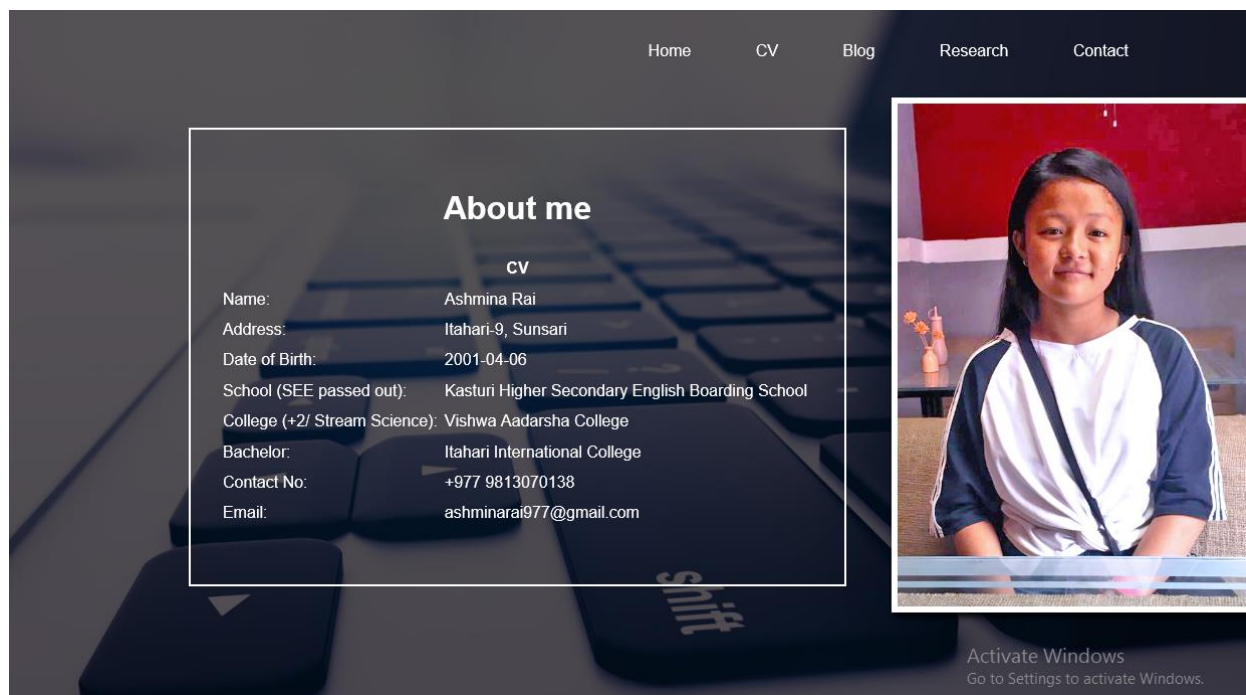*Figure 19: When the curser is taken in CV button*

Figure 20: When CV page opens

Test-2

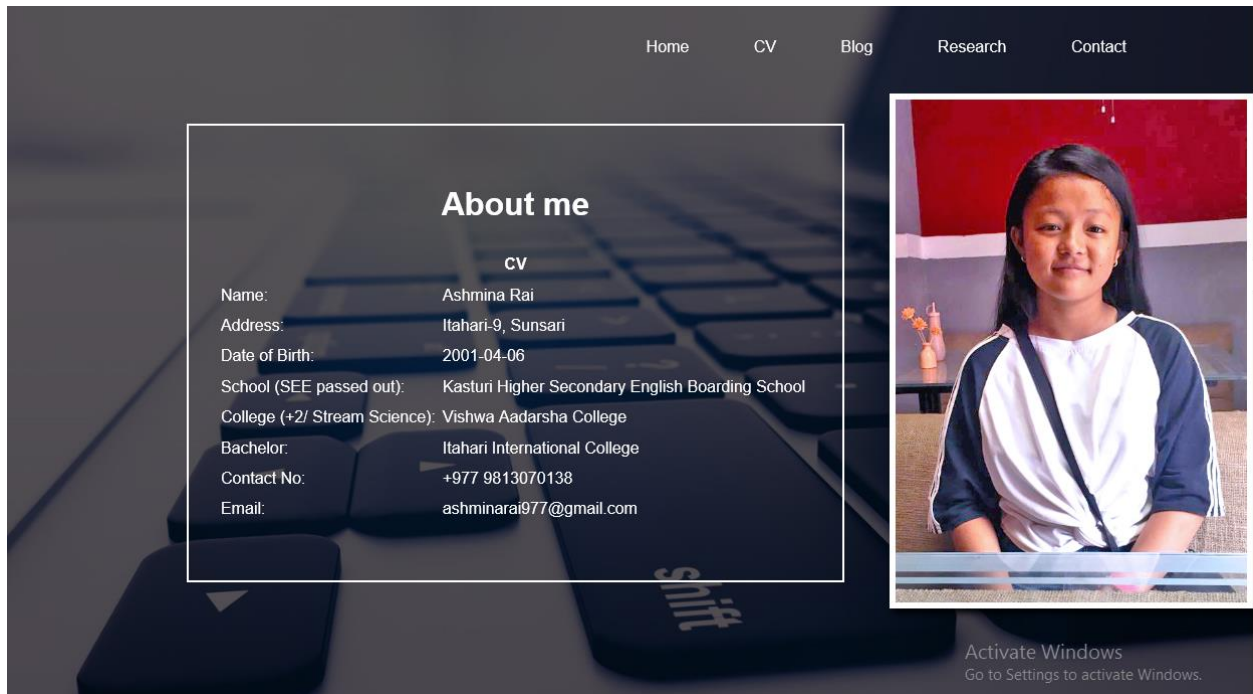| Objective	To check whether the table of CV pages changes its color when curser is taken there.
Action	Clicked on the table of CV page.
Expected Result	The color of the table changes its color.
Actual Result	When cursor is taken there the color of table changes.
Test	Test Failed.

Table 2: Test 2

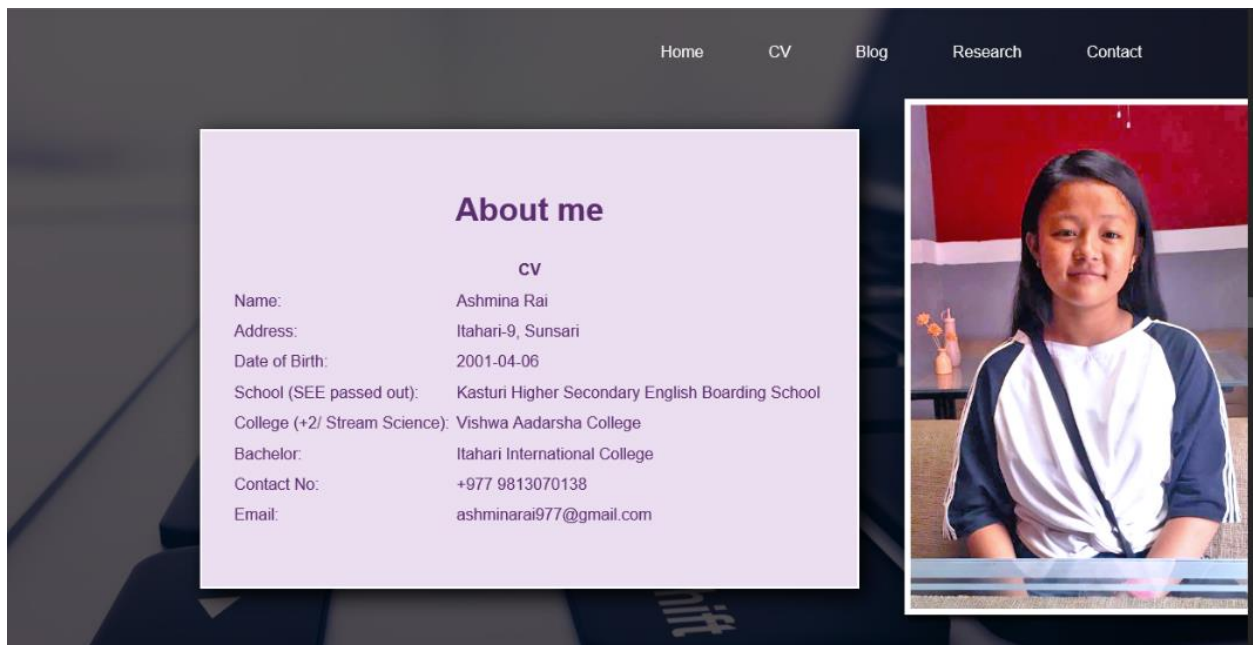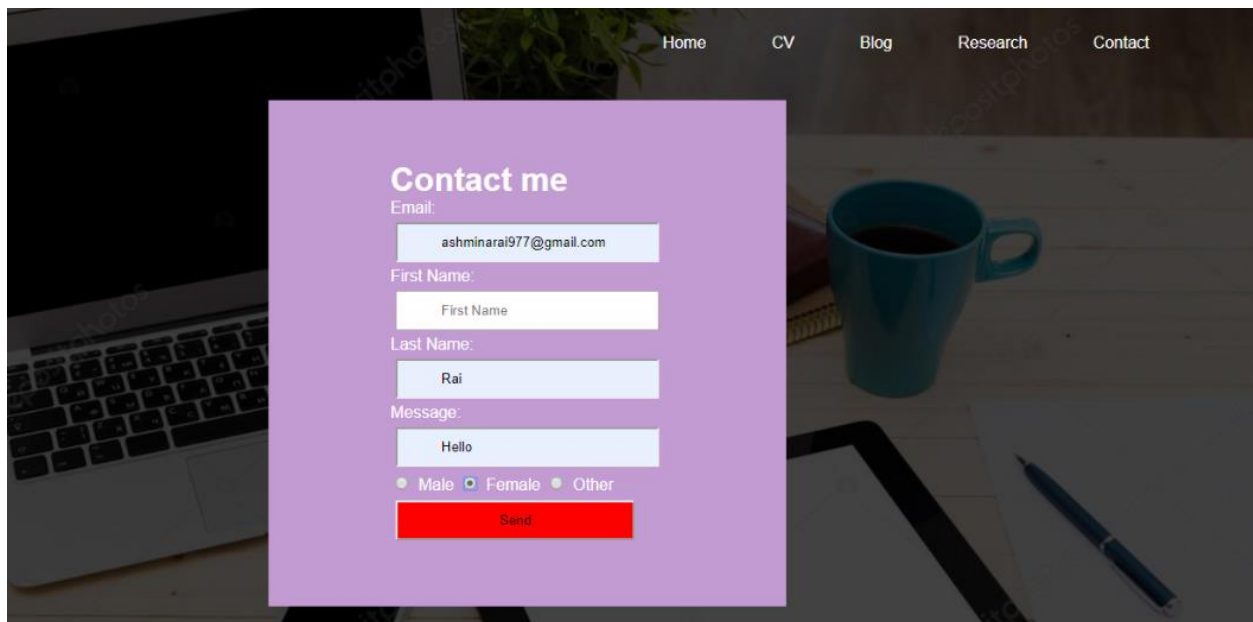*Figure 21: Before the curser was taken to table*

Figure 22: After the curser was taken to table

Test-3

Objective	To check Whether the alert message pops out on screen or not when a single form is left blank
Action	All the forms were filled except one.
Expected Result	Message will pop out on the screen.
Actual Result	Message pops out.
Test	Test Failed

Table 3: Test 3

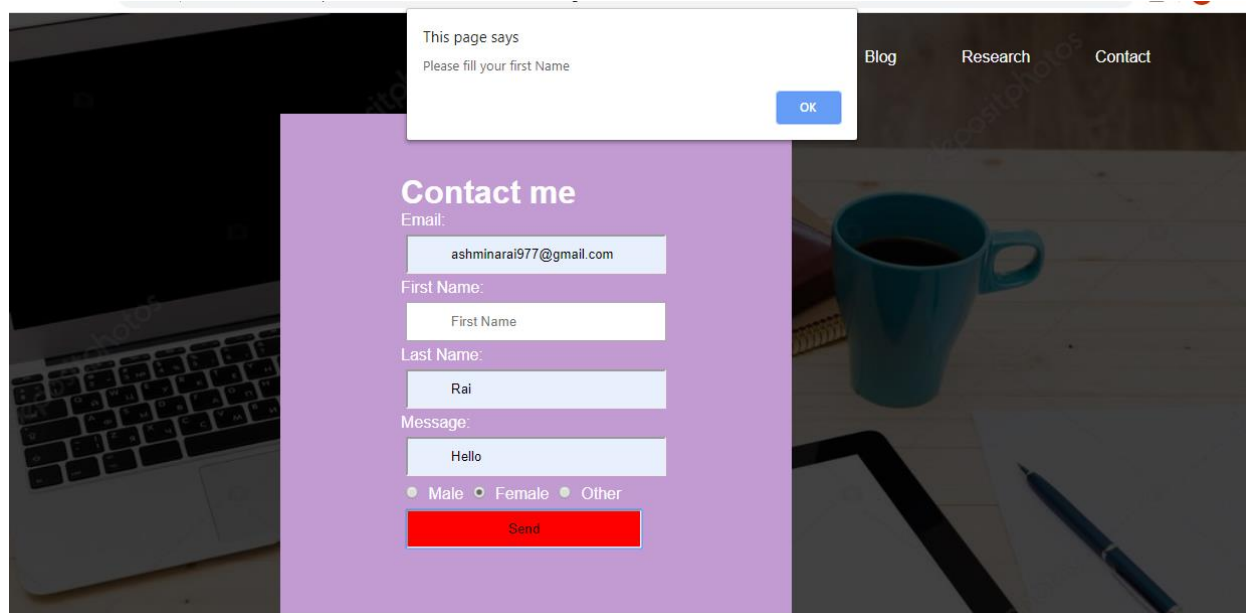*Figure 23: Before send button is clicked leaving one form blank*
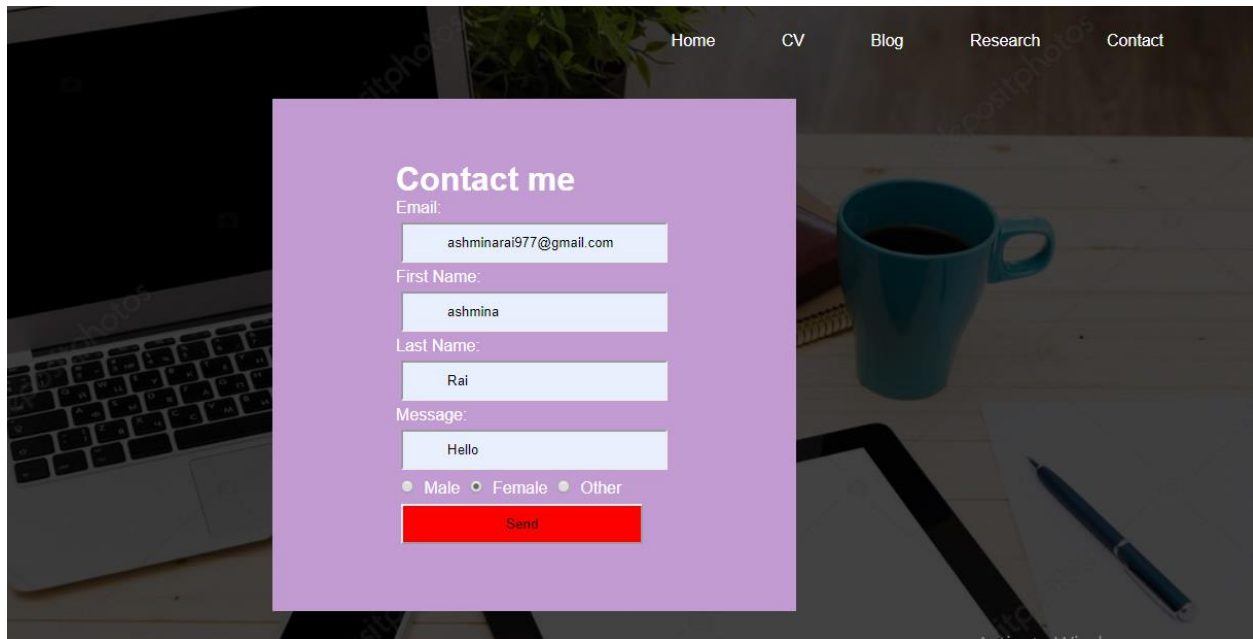
Figure 24: After send button is clicked

Test-4

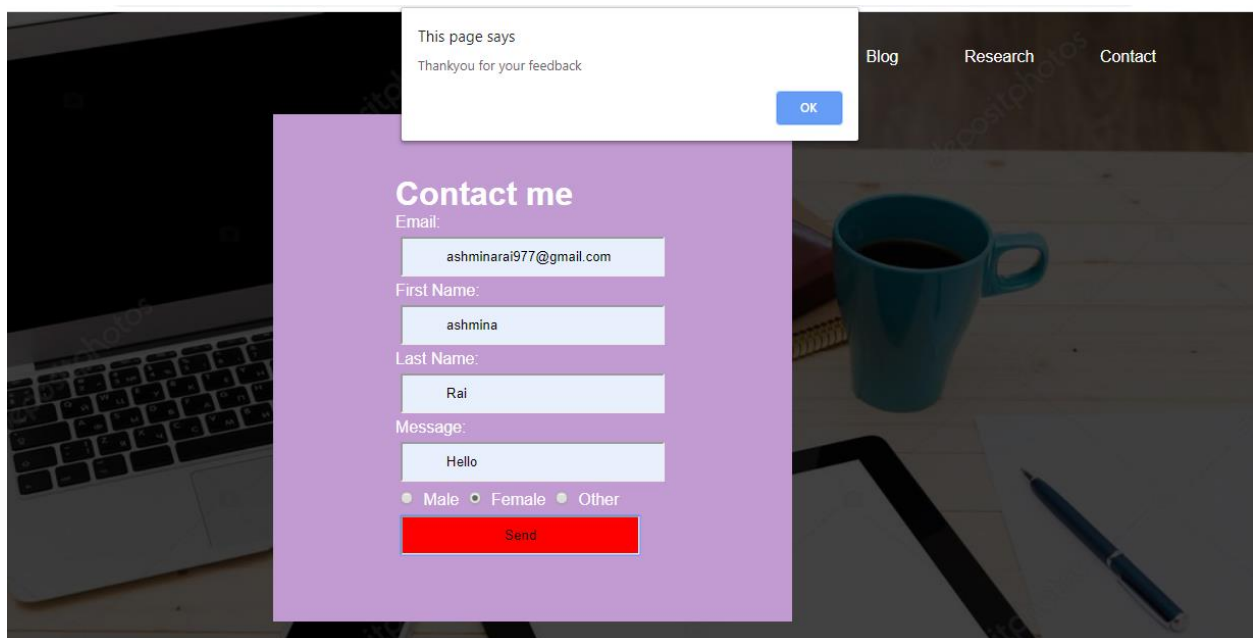| Objective	To check whether the thankyou message pops on screen or not when we fill all the blanks of contact page.
Action	Filled all the form of contact page
Expected Result	Thankyou message will pop on the screen
Actual Result	Message popped on the screen
Test	Test Failed

Table 4: Test 4

Figure 25: Before all the message was sent

Figure 26: After message was sent

Test-5

Objectives	To check whether the navigation bar changes color when curser touches navigation bar.
Action	Cursor was taken to navigation bar.
Expected Result	Navigation bar will change its color when curser was taken to the bar.
Actual Result	Color of navigation bar changes.
Test	Test Failed

Table 5: Test 5

Figure 27: Before the cursor was taken to navigation bar

Figure 28: After cursor was taken to the navigation bar

4. Conclusion

The main reason of doing this coursework was to design a simple portfolio which consist of an interactive web pages including Home, CV, Blog, Research and Contact using different required tool editors like sublime Text, snipping tools and so on. Since, it was the first time I was creating portfolio using different designing languages, I find it very difficult to do as a course work. I don't have any idea about tags and their functions, for what purpose are they used. It took me a couple of days to think about the design for portfolio which I take the help of google and youtube to create and design to make it simple and attractive which I at first created on wireframe.

Similarly, while creating the website various factors were taken in considerations like proper coding and implementation of required tools. Mainly we used HTML tags to focus on the structure and content where as we used CSS to presents the element such as layout, color and font to make web pages really interesting and interactive. Similarly, I used JavaScript to make more active by adding actions and other interactive activities like I used pop-up features on contact page. Thus, through the given course work I came to learn about creating web design and gain a lot more knowledge about different tags, their function, uses and mainly gain knowledge about the use and importance of HTML, CSS and JavaScript.

Thus, the given coursework was very helpful and learning in the sense of creating and designing portfolio.

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