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Introduction

This coursework was provided with the task to create a portfolio website containing at least 5 different webpages in total. The website was to be developed using HTML, CSS and JavaScript. The development of the website was completed with the help of wireframes and by researching various websites on the internet.

The task provided to us was not an easy one but it was not as complex as our previous ones. This was not my first time working with HTML but I had not gone this deep into html before, beside HTML this was our first time working with CSS and JavaScript. Although there we not to many errors while creating the website but while managing the interface I struggled a lot as CSS was new to us and we did not learn CSS and JavaScript in depth but on a basic level so I had to watch a tons of tutorials and information about them which broaden my knowledge on these languages.

The main aim of this coursework was to develop a portfolio website of our own as a basic requirement we were to create at least a total of five which includes a CV ,blogs explaining how technology has affected our daily life and a research section where we compare the websites of which we have taken references from. The website needed to have a proper navigation bar. The website created by me contained all these and had a total of ten webpages. The objective of the coursework was provided to us so that we could have a basic understanding of internet technology and its impact on our daily life, to be able to create a website using the appropriate tools and technologies, to be capable of applying scripting language to webpages and understanding the basic working principles between a web sites and navigation.

HTML was used for the creation of the webpages for this website it is a standard markupss language for creating webpages. HTML stands for Hyper Text Markup Language. This language was used to create the webpages and make them functional.

CSS was another language used to create the webpages it was mostly used to give a better layout and present the website in a better way. CSS also known as Cascading

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Style Sheets is a style sheet language used to describe how elements should be rendered on screen (MDN, 2019).

JavaScript was another language used for the creating of the website. It is a lightweight interpreted compiled programming language and is the most well-known scripting language for web pages. This was used in various parts of website which required some simple programming like in form validation, gallery, for scroll indicator and others (MDN, 2019).

Discussion and analysis:

This coursework had other some task than creating the websites. We had to first create a wire frame for the website where we design oh how the website would look like when created. To complete the given task at hand many time and researches were done as we only learned basic requirement for both CSS and JavaScript many research and tutorials were looked up to make proper use of them. We had to create a least five different webpages for the website which were created by using HTML, CSS and JavaScript. These are the standard languages while creating webpages. Various webpages were taken as references while designing the actual website and the wireframes were create so that we would get a better idea of how the website should look.

Wireframe are the design of how a website should look at structural level. It is used to layout content and functionality on a page which takes into the users need and feels while using the website. They are used in early development process to have a basic idea of how the page should look (experience ux, 2019).

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Balsamiq was used to create the wireframe of the webpages. It is software which allows us to create a wireframe. This software was used because of its ease to used functionality and its availability as other software to create wireframe cost money and were complex to use.
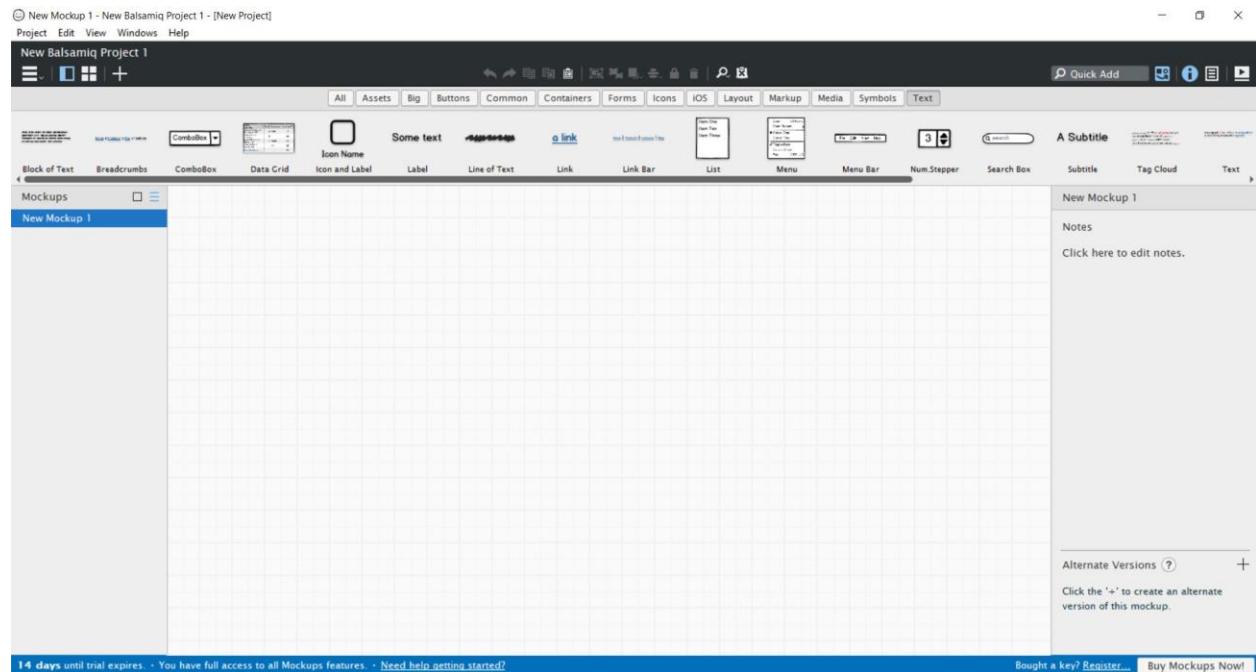

Figure 1 Balsamiq software

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The wireframe of my website are as follow:-

1. **Home page**
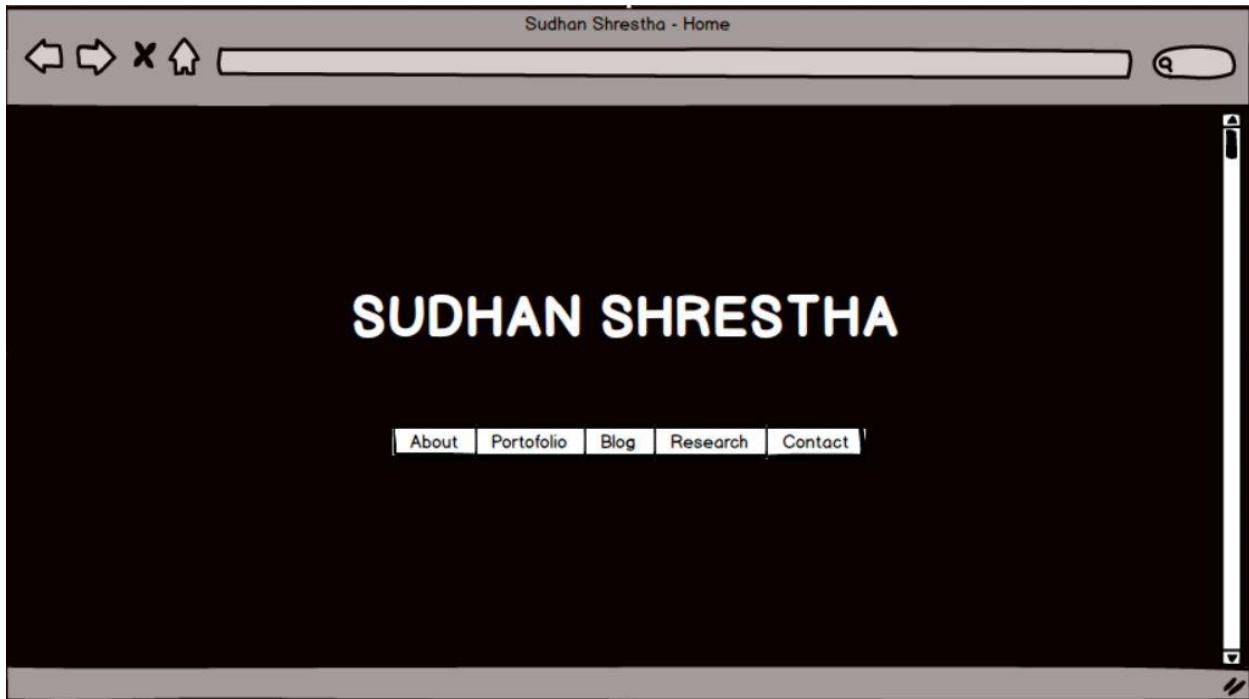
Figure 2 Wireframe of Home page

The design of this webpage was taken with the reference of a website name *crypton.trading*. The all black look was taken from the reference website. The placement of the branding of the website was a challenge as there was only a small logo in reference website. Finally I decided to place the branding which is my name in the centre of the page to grab the attention of the users furthermore a typing effect was added in there. The placement of the navigation was first decided to be place in the side as of the reference site but was later change to be place right after the branding.

2. About page
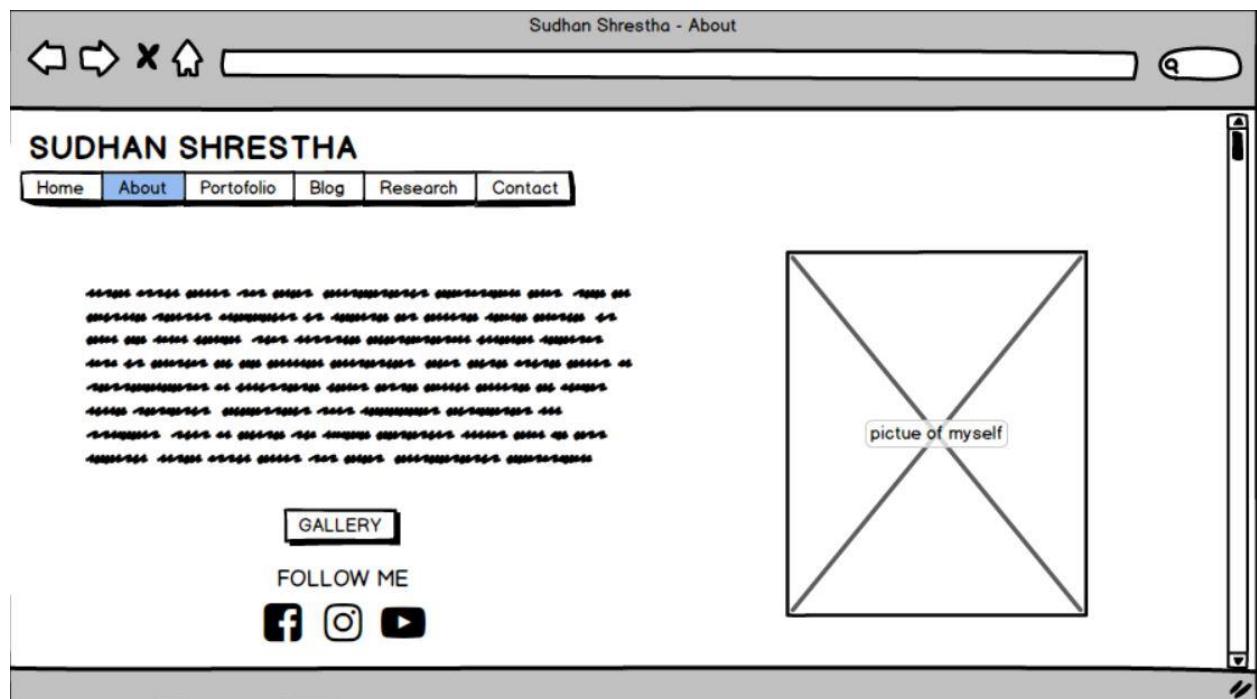
Figure 3 Wireframe of About page

The design of other webpages beside the home was created with the intension of keeping the website simple and minimalistic. Some of the design of the webpages were from the website of *maxreeves*.net while the about page was designed by taking reference of website *nrly.co* to create a webpage of what the website is about with a short description about myself with a picture . In addition a button which links to small photo gallery was designed which was to link to a photo gallery of some pictures taken by me. Finally, icons linking to the following social media account were created for the users to look into.
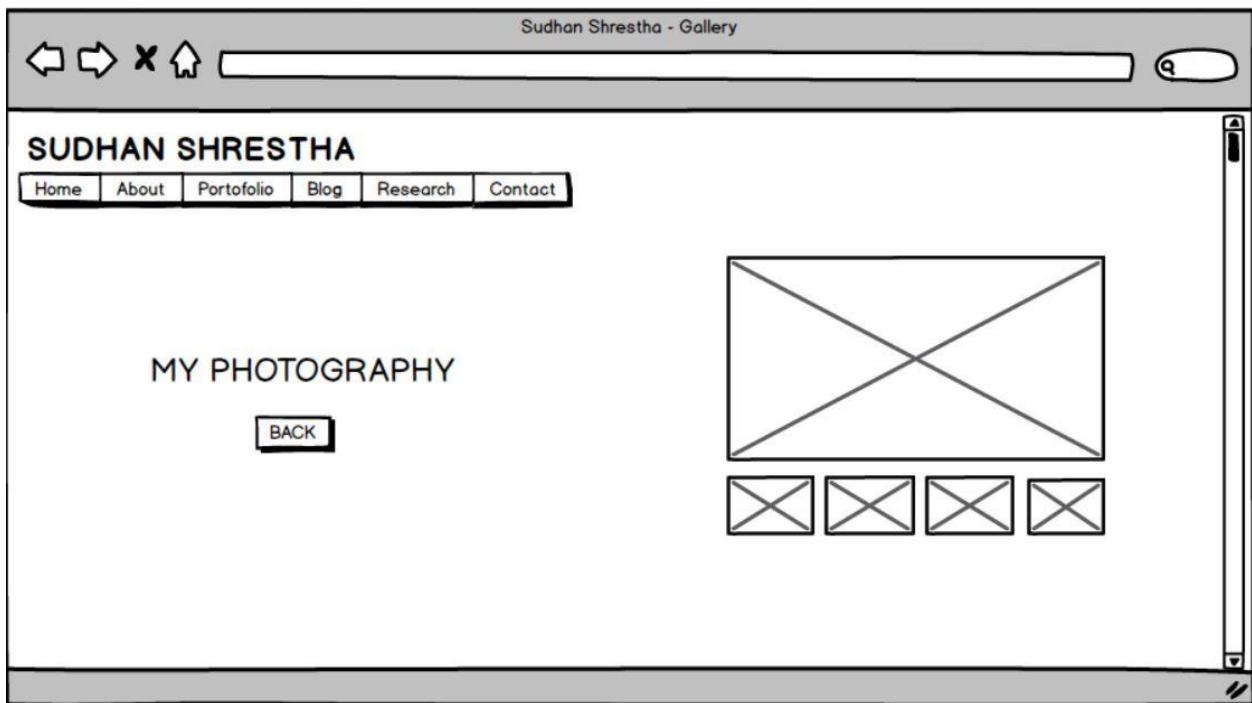
Figure 4 Wireframe of Gallery page

This was a page which was linked form the about page .This page was created to meet the requirement of the JavaScript needed for the website. The page was created with the purpose of displaying some pictures clicked by me. A photo gallery was designed to be placed in the side and a back button and a text defining that it was photography by me was designed to be placed at the left.

3. Portfolio page
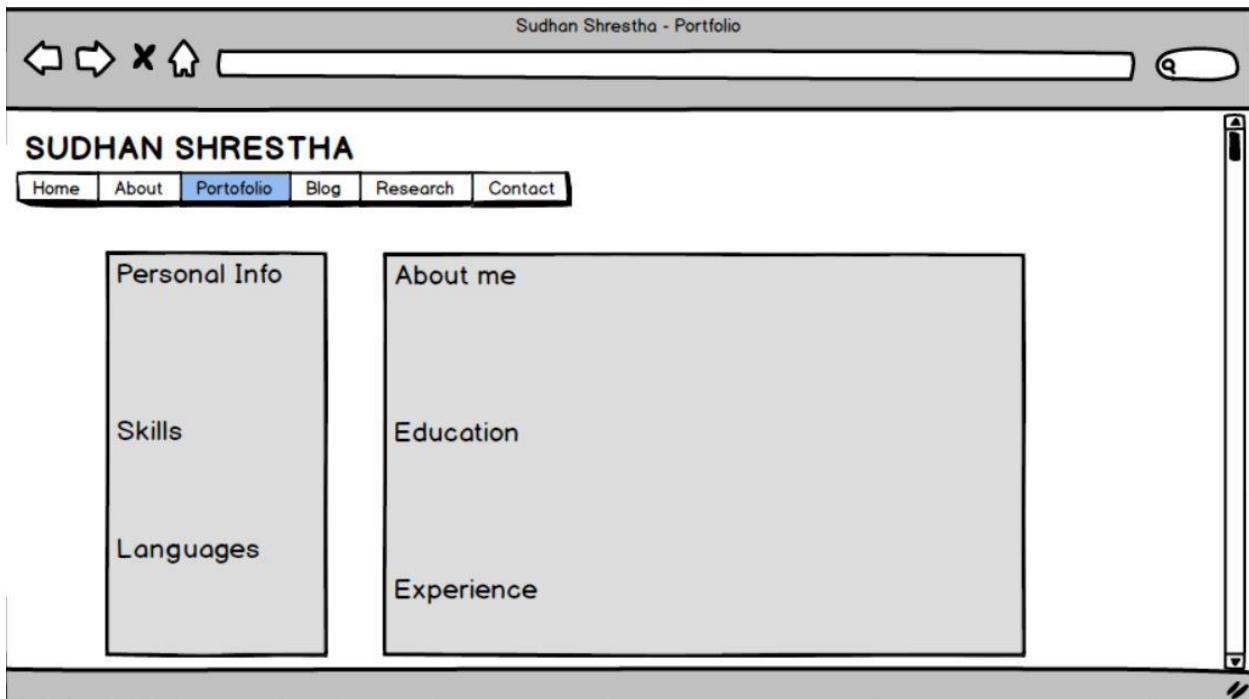
Figure 5 Wireframe of Portfolio page

The designing of the portfolio page was quite a challenge as I was confused on how to show it. Finally, I came up with a design to show the CV as it is so that the people who are looking into my profile can find the information easily .The design was created with the intention to make the person looking into it to find out every information he needs easily. The information needed was to be found easily so it was categorized properly by separating the personal and academic information.

4. Blog
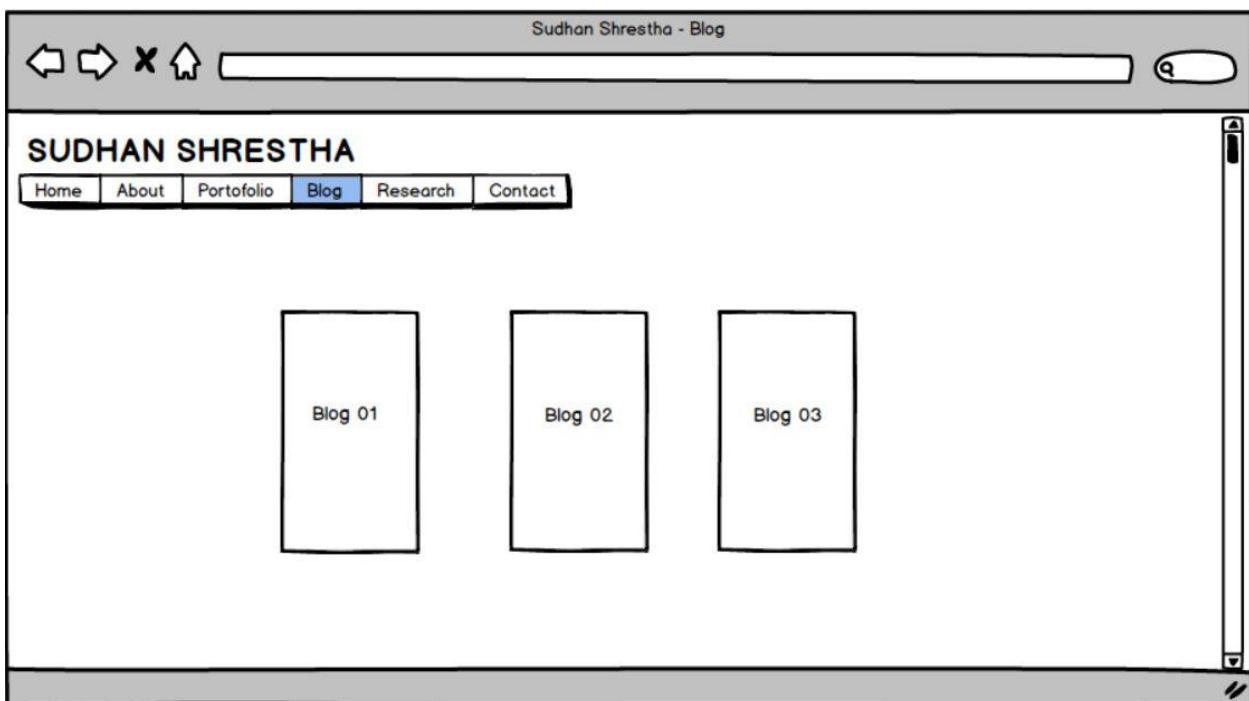
Figure 6 Wireframe of Blog page

The design of this page was created by taking reference from *heathershaw.com.* In the reference site there were block linking to a separate page so the design was inspired by that and the wireframe was created where a block was create for each block which linked to the actual blog . Later while actually designing the webpage some design changes were done , the overall intention was for the blogs to be kept in proper order and was to be able to quickly read through some contents of the blog and if interested to read the full blog the user had to click the block.

The blog pages were designed with the concept of how a normal blog would look like and not much design thought was put into it as a blog should be focussed on reading the content while the design of some images were created to give an visualization of the blog related content.
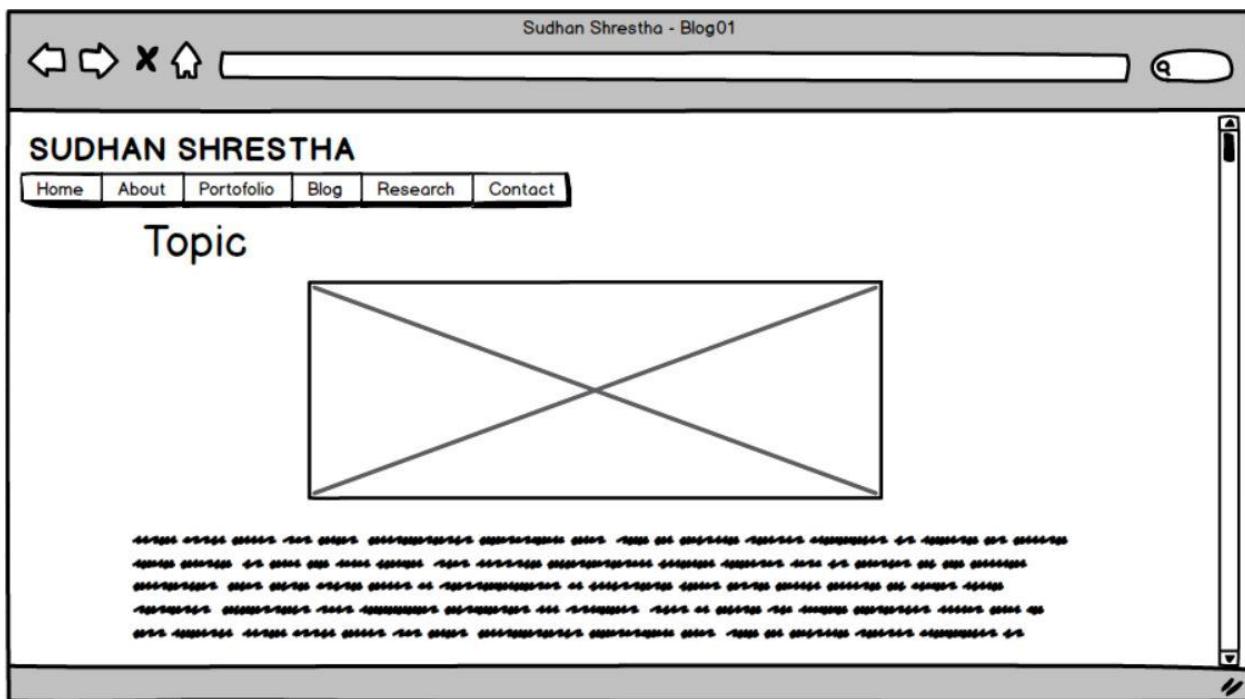

Figure 7 Wire frame of Blog01 page
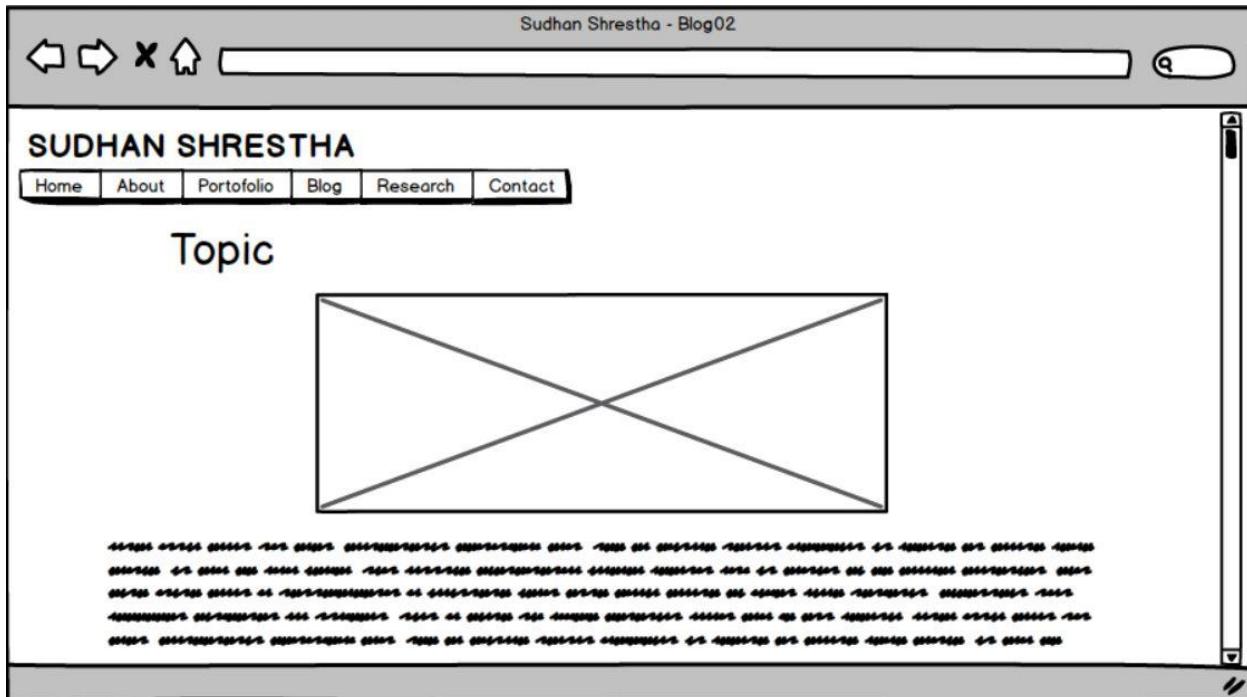
Figure 8 Wire frame of Blog02 page
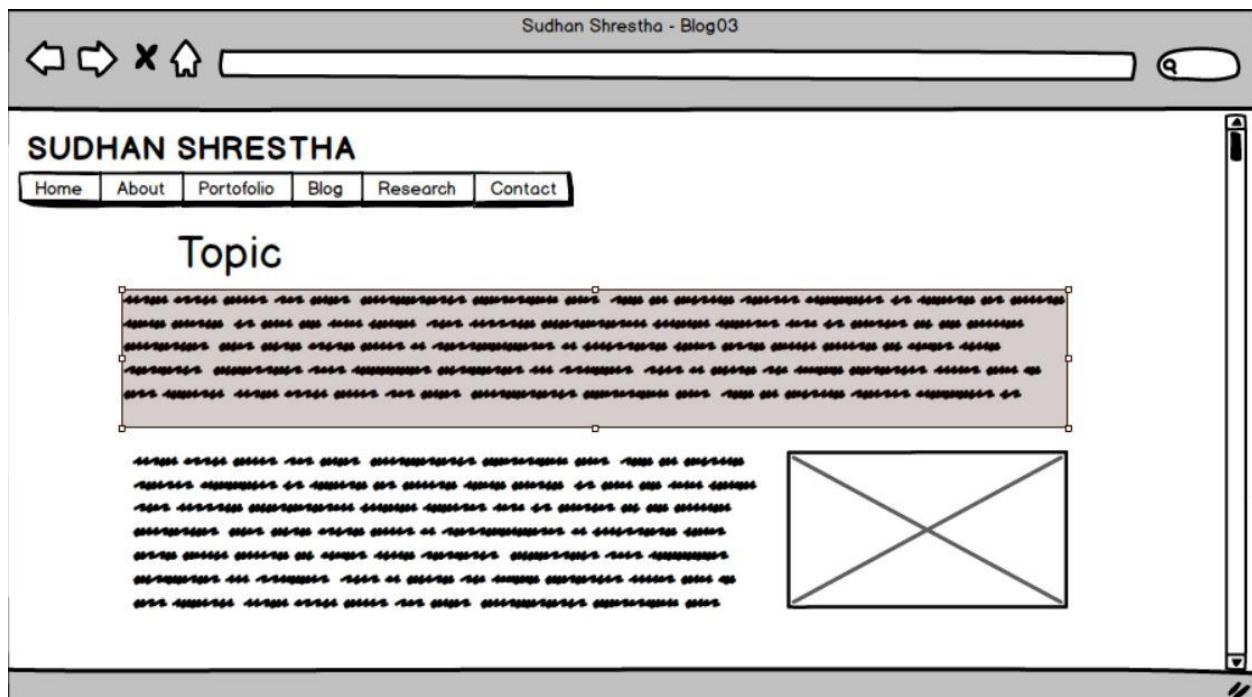
Figure 9 Wire frame of Blog03 page

5. Research page
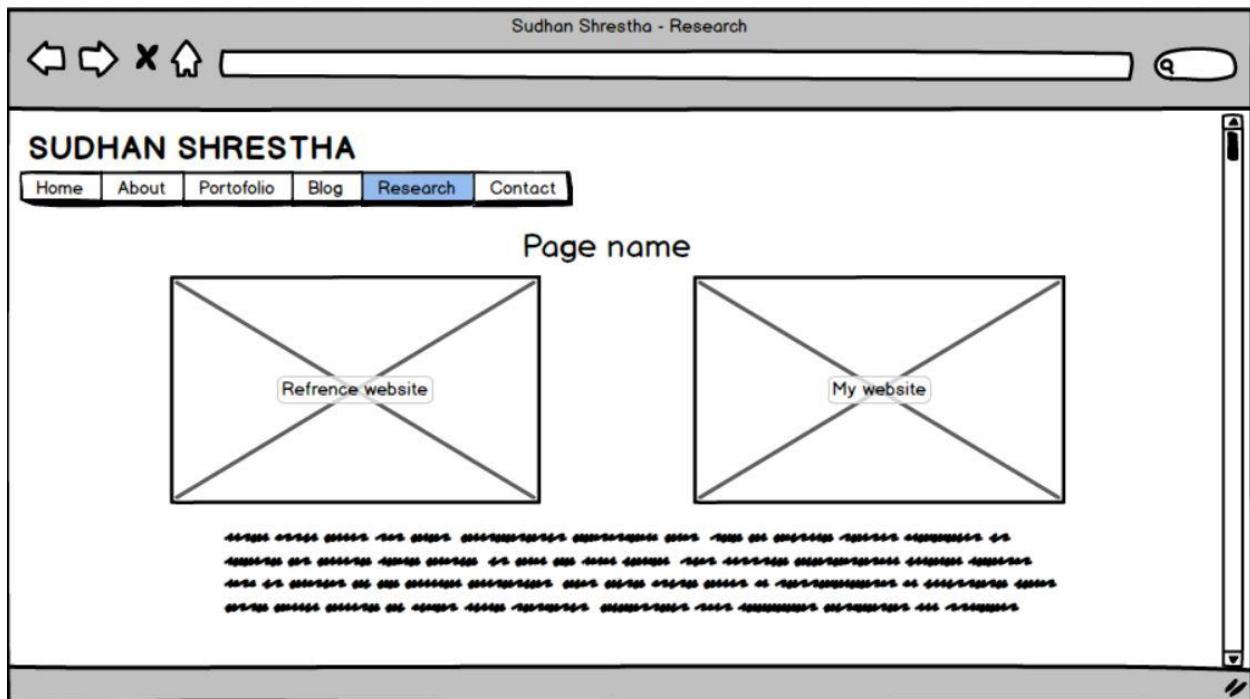
Figure 10 Wireframe of research page

The design of this page was done with the intension so that the comparison between the two pages can be done easily. The design was done so that we can see the both website and read what changes had been done after seeing both of the website. The other comparisons are also to be done in similar layout.

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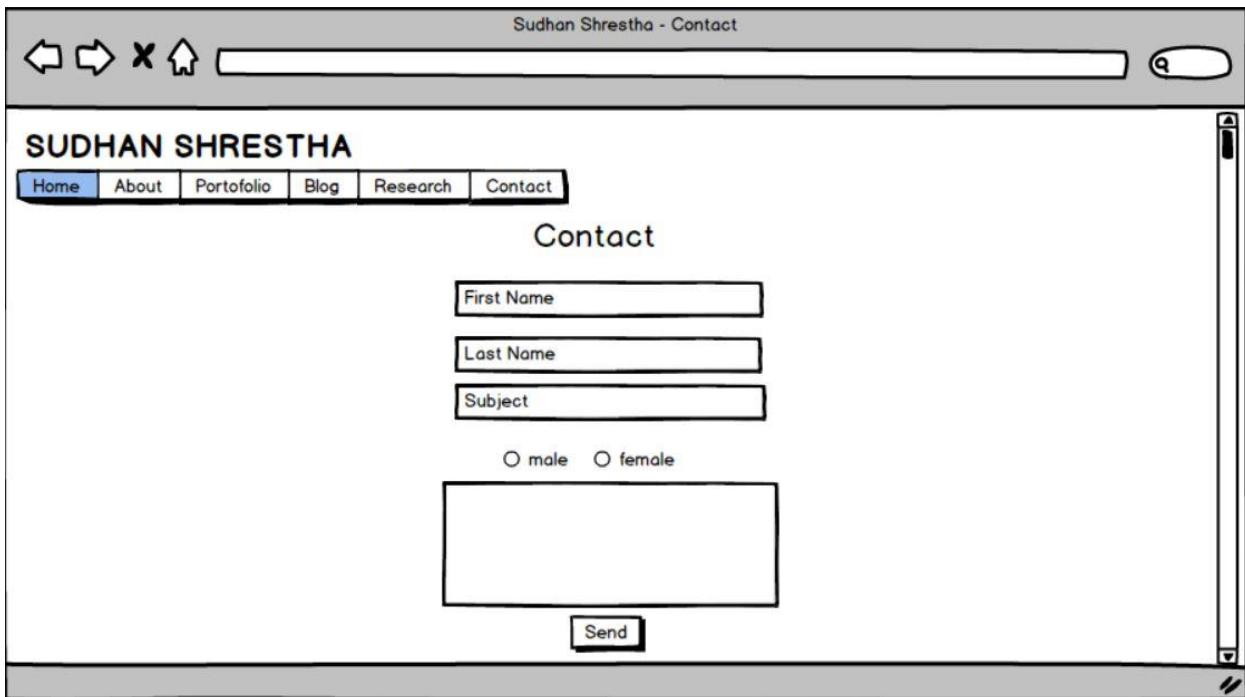
6. Contact page

Figure 11 Wireframe of Contact page

The design of contact page was somewhat inspired by the website *unboxtherapy.com* the layout design was made by keeping the contact form simple. The design was made with the intension of keeping the form simple.

Sublime text editor was used for writing the HTML, CSS and JavaScript. This text editor has various functionality which make writing the languages easy as it provides some auto suggestion but doesn't give out much auto codes like some other text editors which makes writing habit of the language that we use so we remember keywords used easily later on.
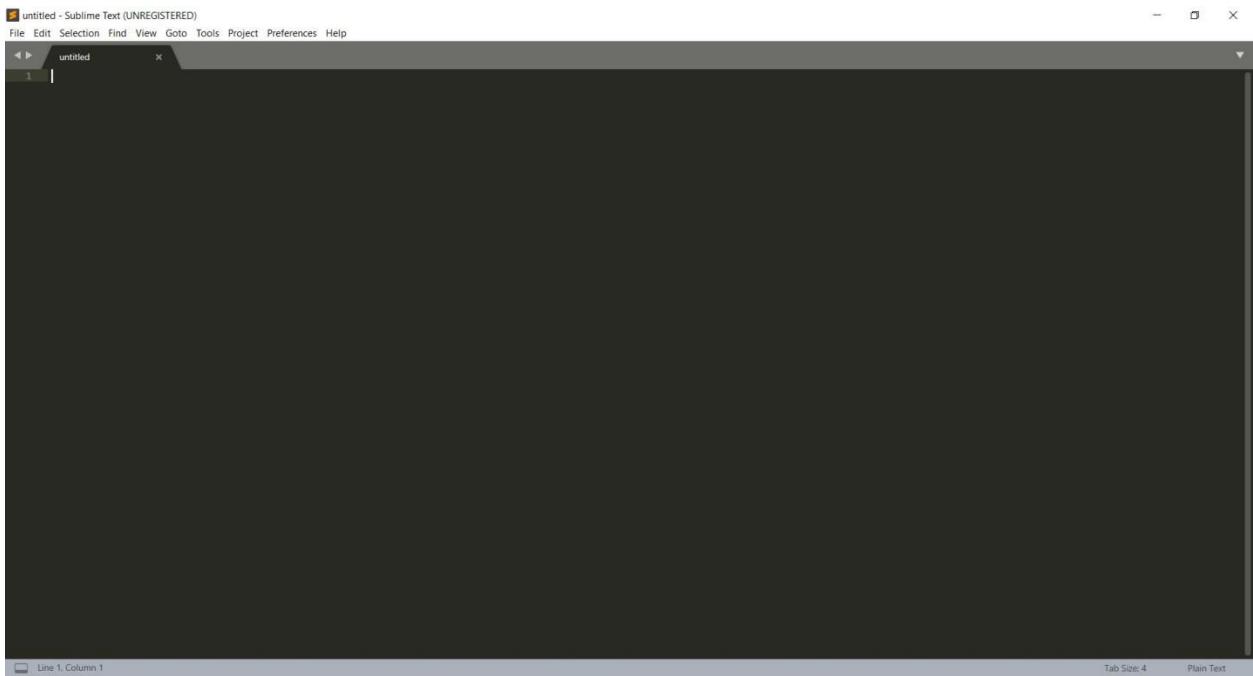
*Figure 12 Sublime text editor*

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As usual Microsoft word was used for writing the report as it is the most widely used software for writing reports and are preinstalled in our computers.
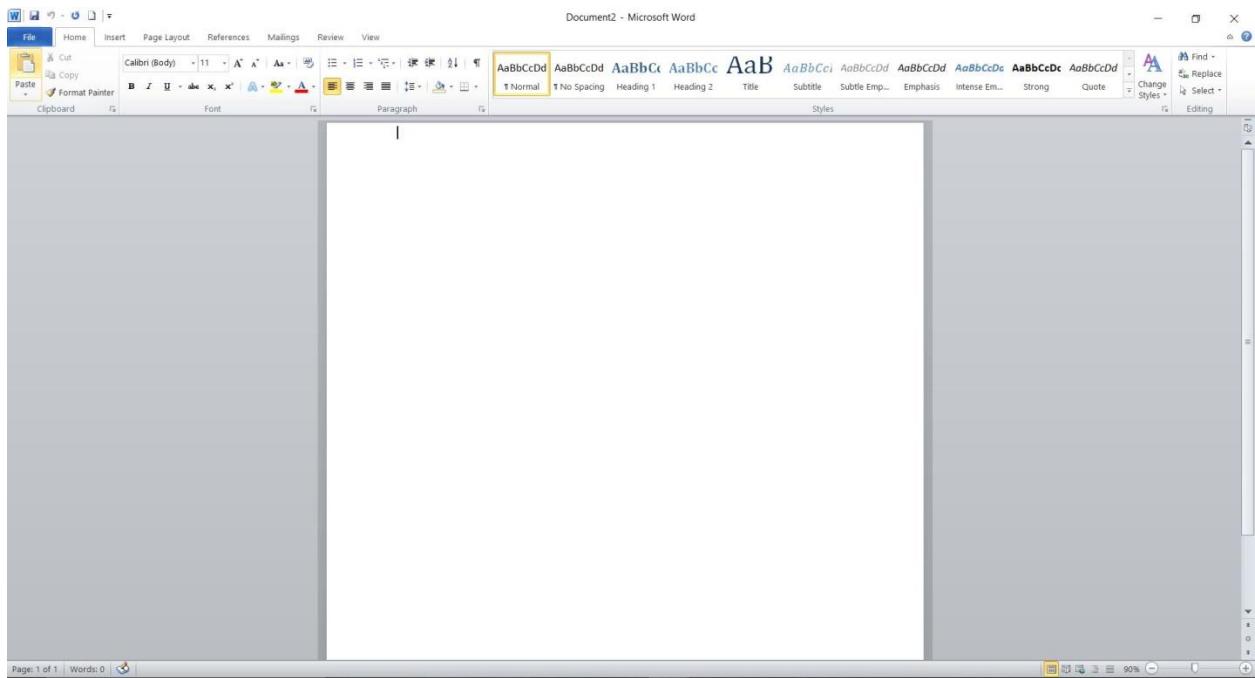

Figure 13 Microsoft Word Software

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Testing

Test No 1
Testing the functionality of navigation bar
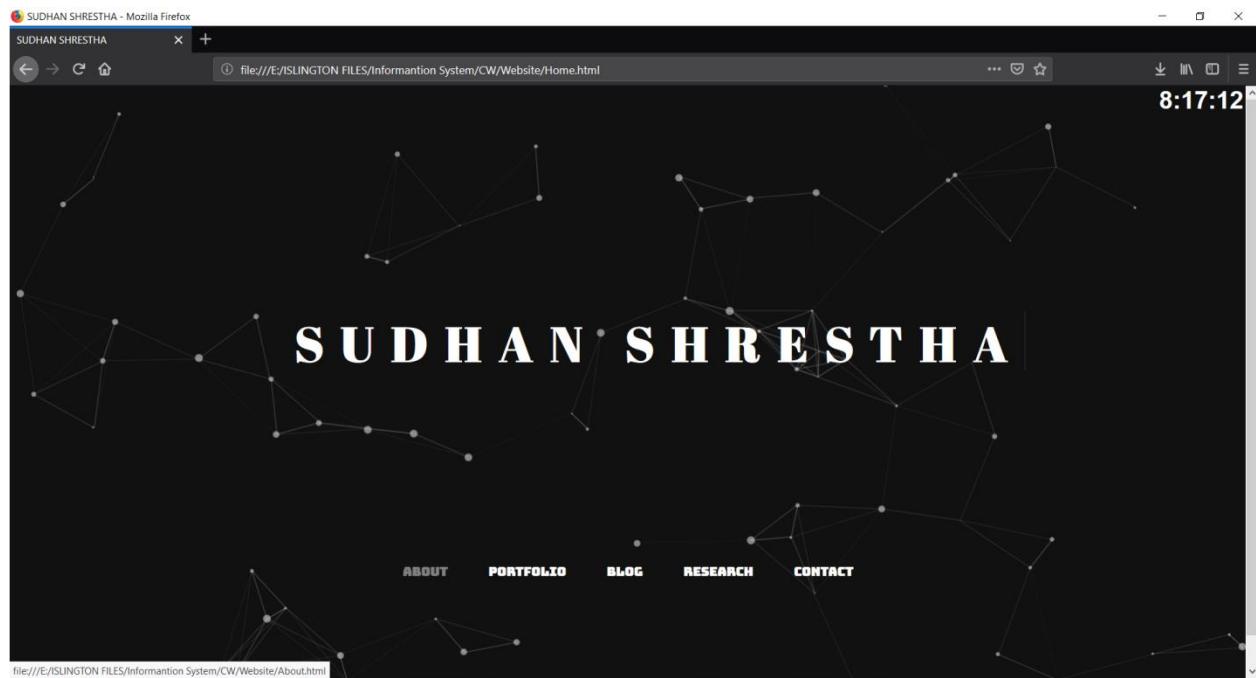
Figure 14 Clicking About in navigation bar

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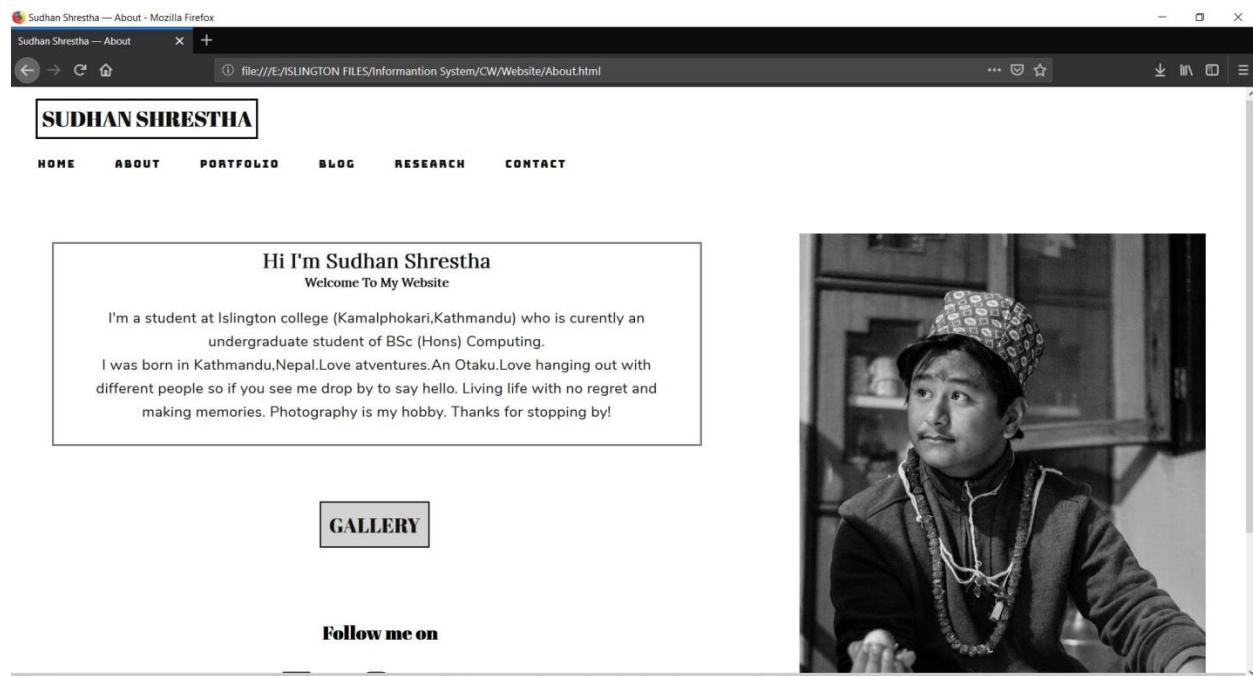
Figure 15 About page being displayed after clicking

Table 1 Test No 1

Test No	1
Action	Clicking about in navigation bar in the home page.
Expected Result	The about page was to be shown after clicking about in navigation bar.
Actual Result	The about page was displayed.
Test Result	The test was successful.

Test No 2
Testing the gallery's functionality
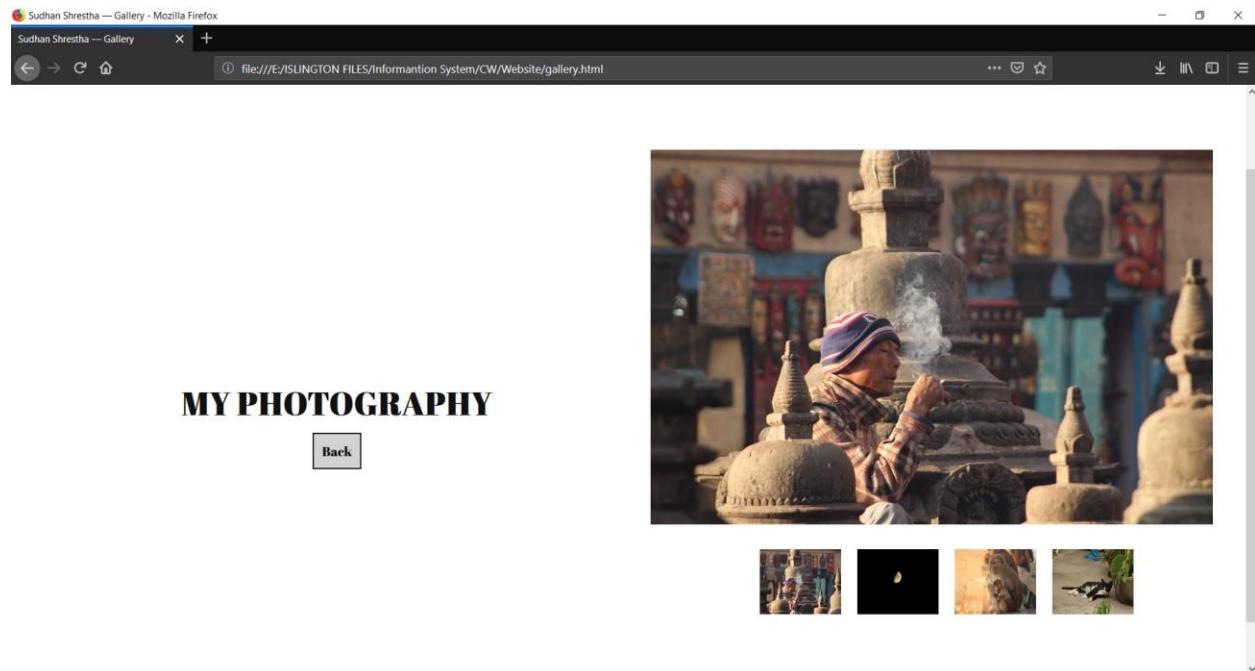
Figure 16 Clicking the second picture
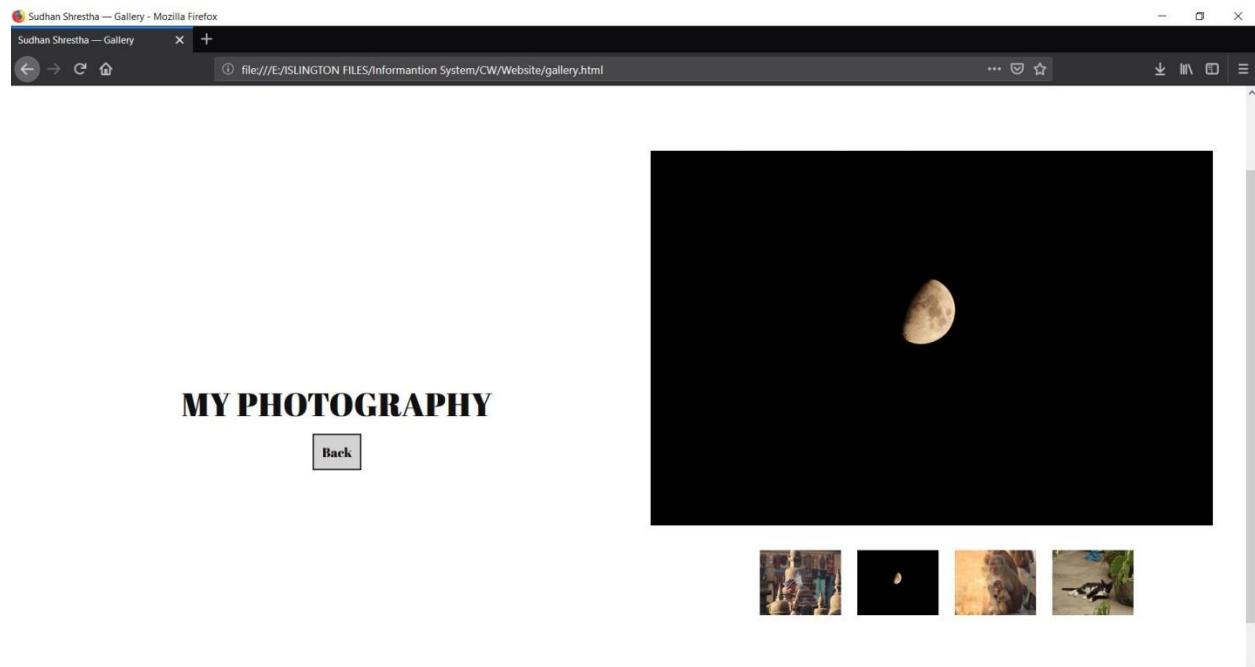
Figure 17 The second picture being displayed

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Table 2 Test No 2

Test No	2
Action	The second picture was clicked in the gallery.
Expected Result	The second picture was to be displayed in big size.
Actual Result	The second picture was displayed.
Test Result	The test was successful.

Test No 3
Testing the functionality of hover effect in blog page
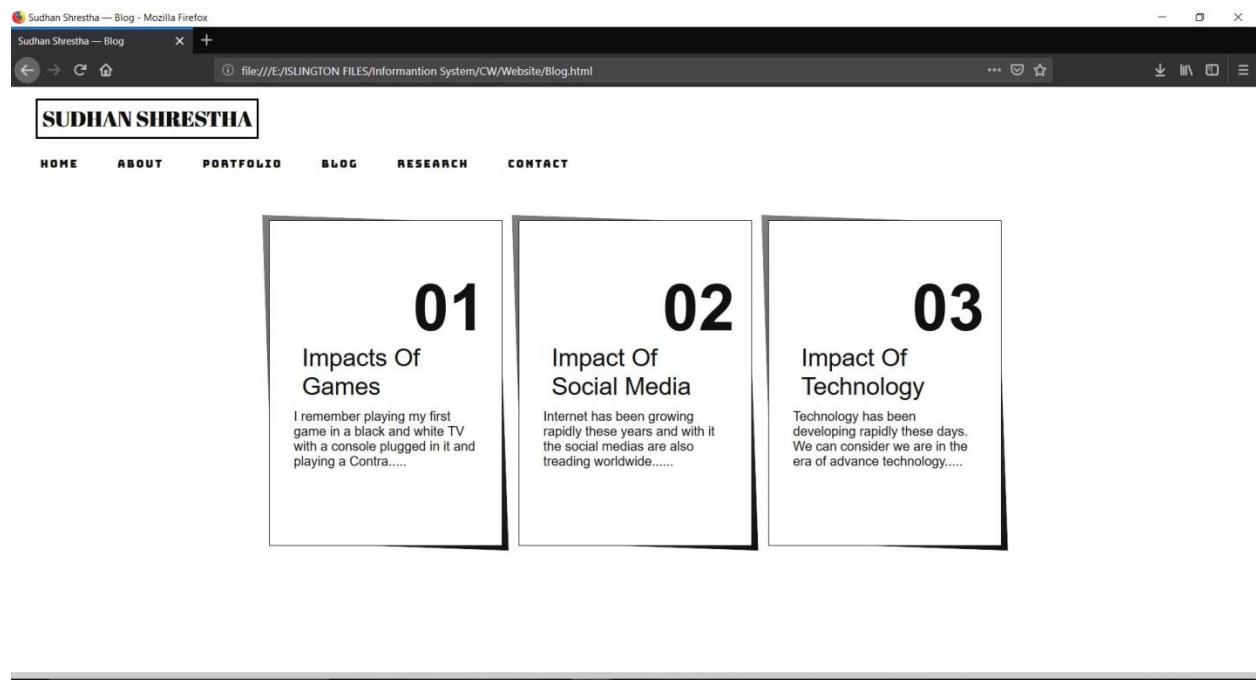
Figure 18 Hovering the mouse over blog01

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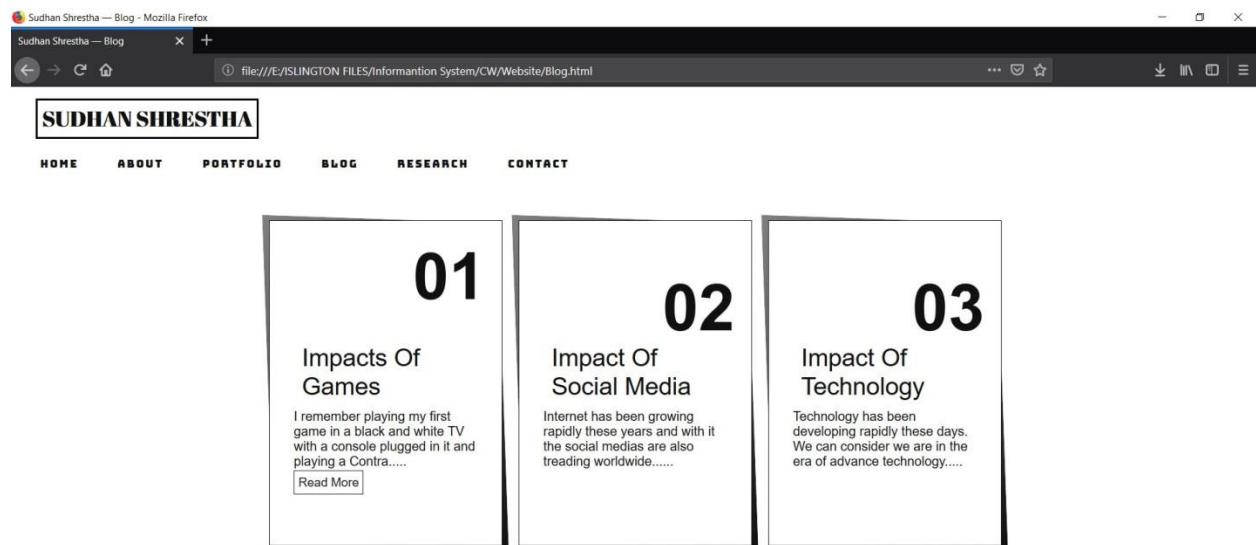
Figure 19 The read more button being displayed along with some animation

Table 3 Test No 3

Test No	3
Action	Hovering the mouse over the blog01 block.
Excepted Result	The read more button along with some animation was to be displayed.
Actual Result	The read more button was displayed along with some animation.
Test Result	The test was successful.

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Test No 4
Testing the form validation
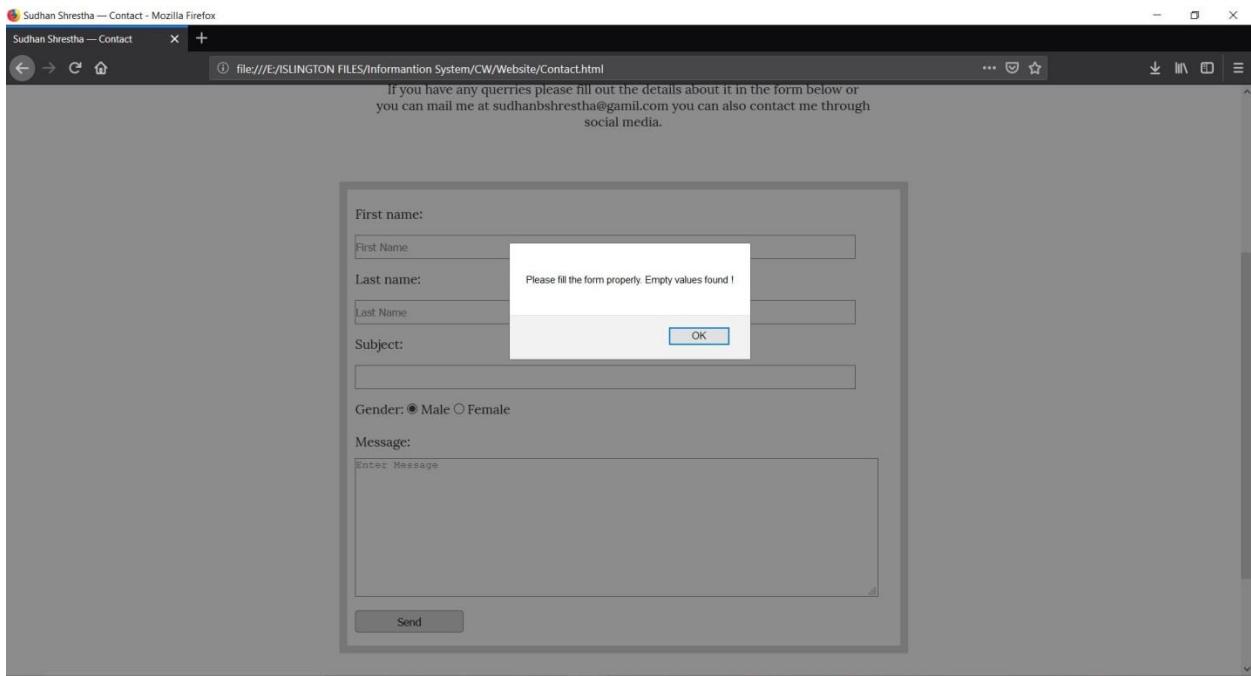
Figure 20 Clicking send button with empty values
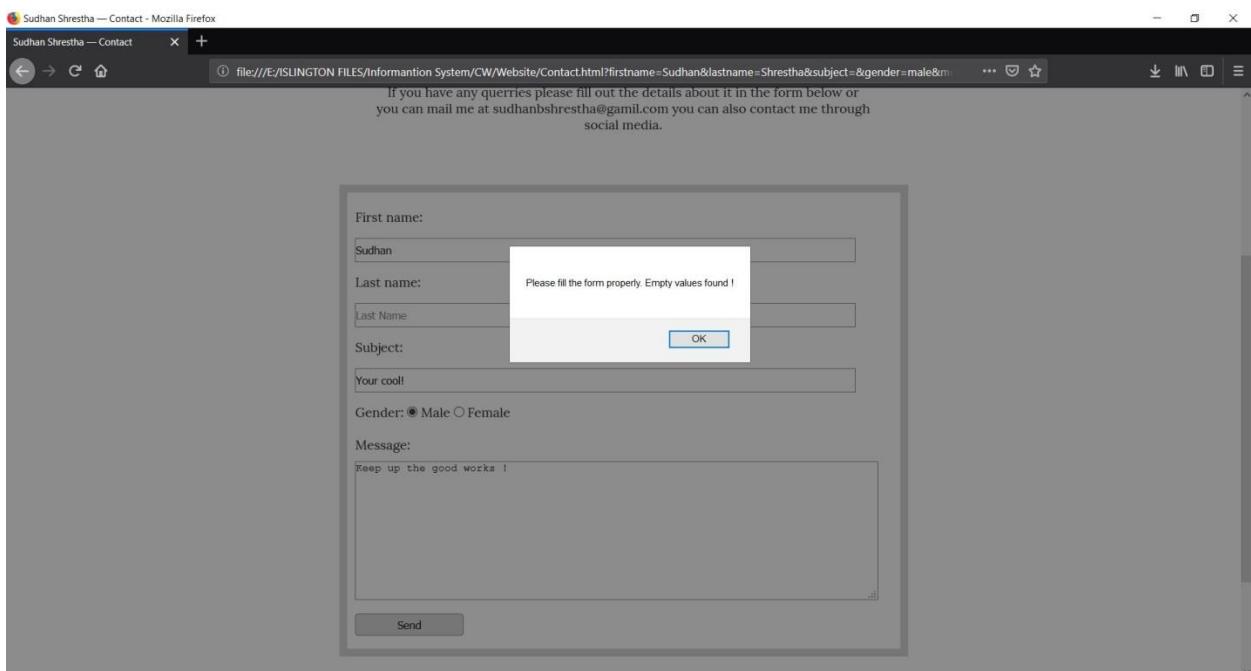
Figure 21 Clicking the send button with some empty values

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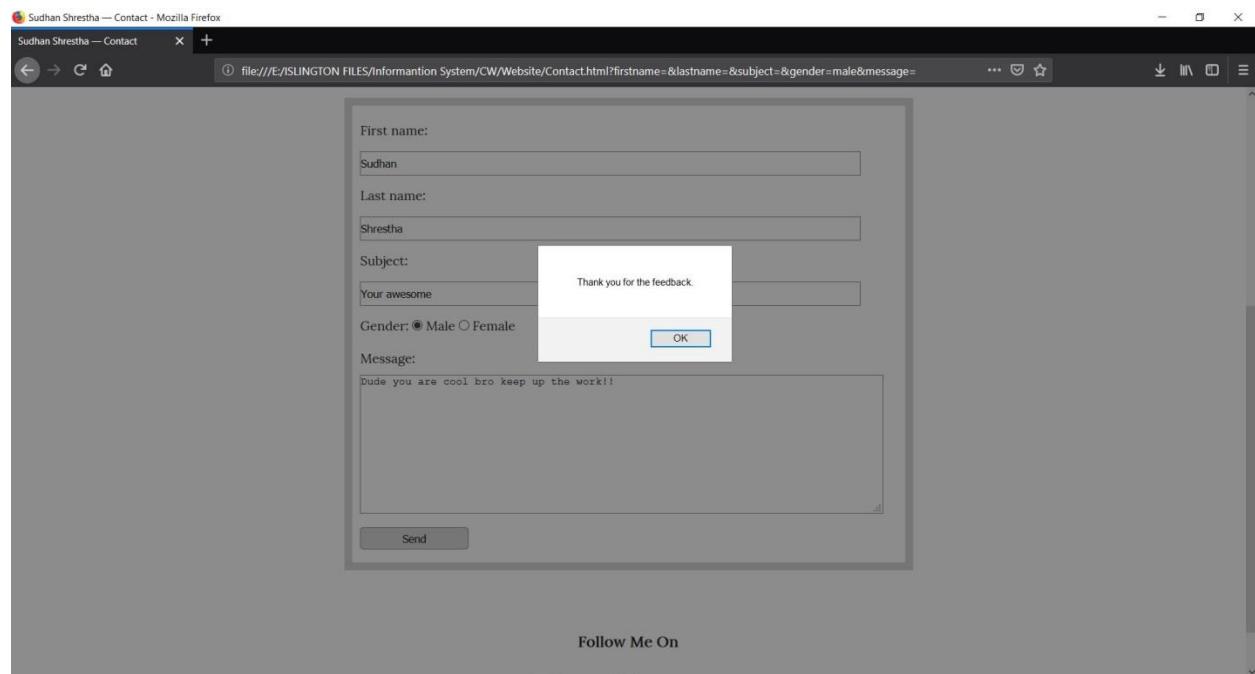
Figure 22 Clicking the send button with proper values

Table 4 Test No 4

Test No	4
Action	Clicking the send button by passing all empty values or some empty values
Expected Result	An alert pop-up was to be displayed saying empty values were found.
Actual Result	The alert pop-up displayed saying empty values were found.
Test Result	The test was successful.

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Table 5 Test No 4.1

Test No	4.1
Action	Clicking the send button by passing proper values.
Expected Result	An alert pop-up was to be displayed thanking the user for the feedback.
Actual Result	The alert pop-up was displayed thanking the user for the feedback.
Test Result	The test was successful.

Test No 5
Testing the scroll indicator functionality
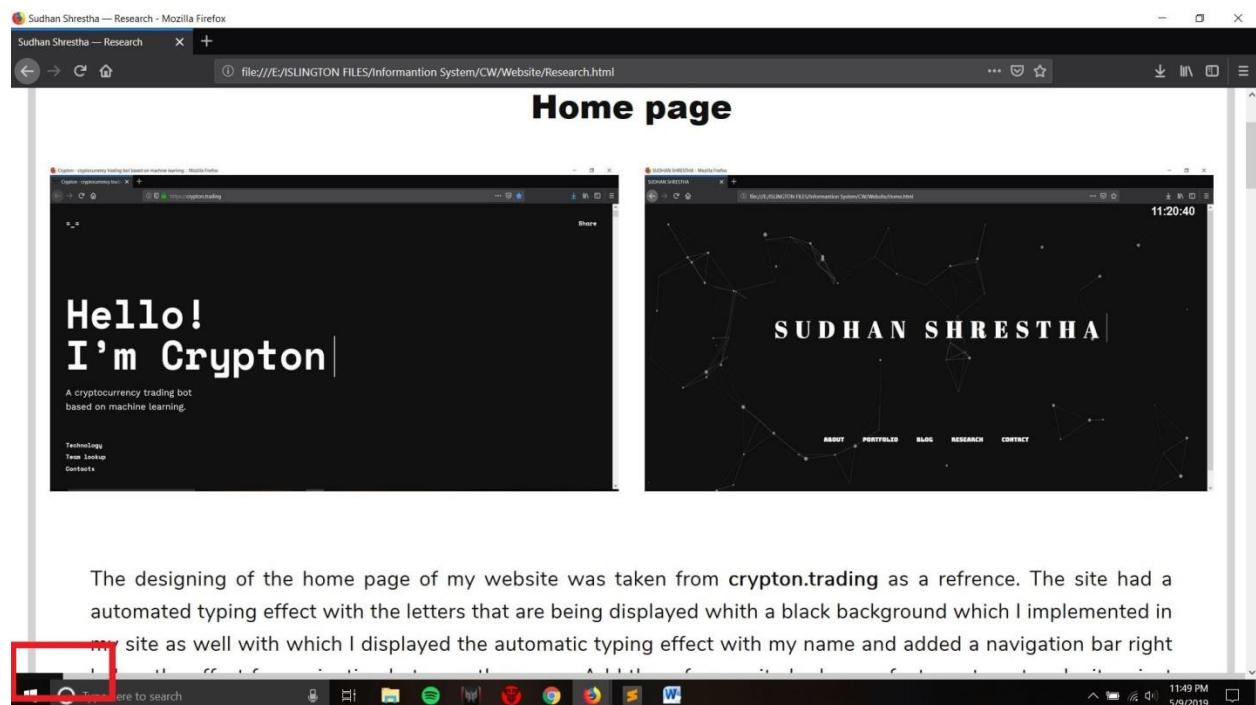
Figure 23 Scroll indicator at the top of the page

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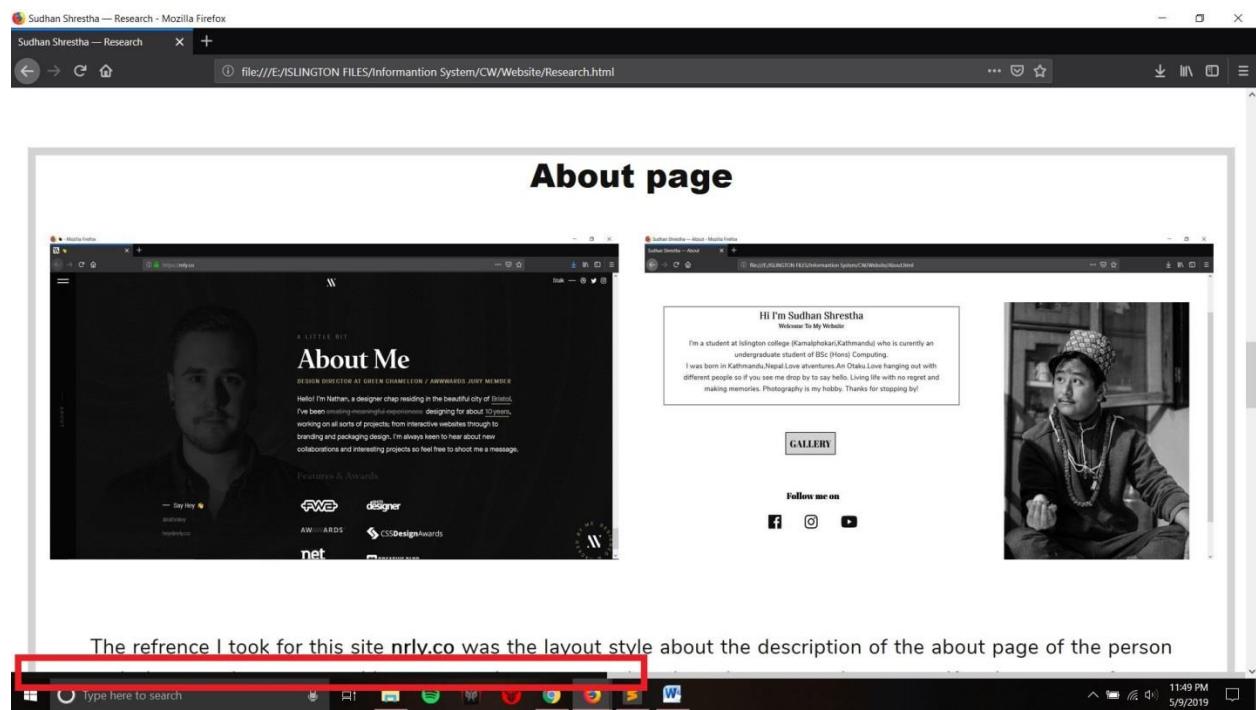
Figure 24 Scroll indicator at the middle of the page

Table 6 Test No 5

Test No	5
Action	The scrolling down in the page.
Expected Result	The scroll indicator was to be progressing as the page goes down.
Actual Result	The scroll indicator was progressing as the page goes down.
Test Result	The test was successful.

Test No 6
Testing whether the image changes when mouse pointer hovers
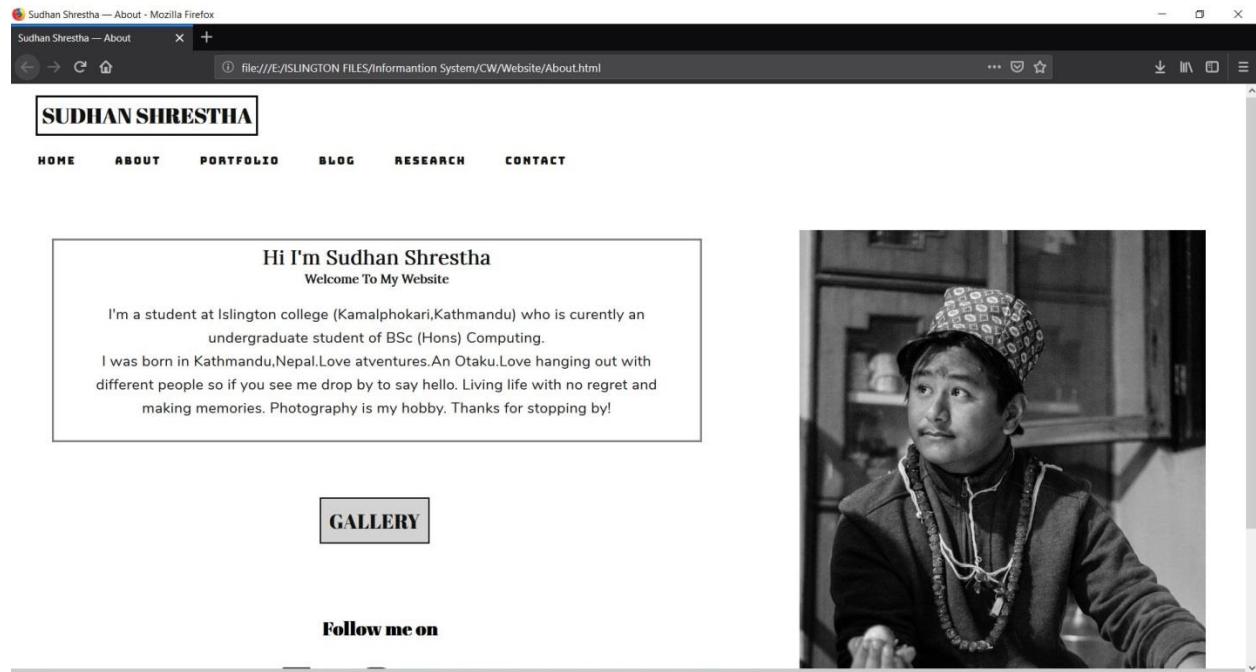
Figure 25 Picture when mouse not hovered
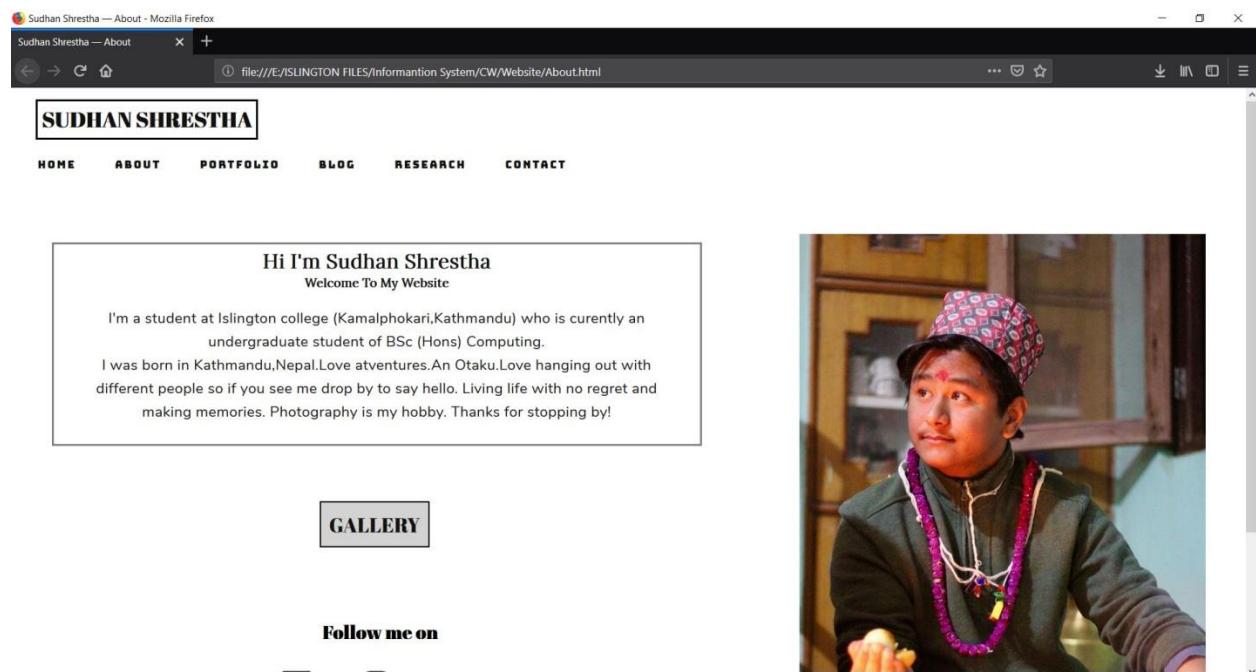
Figure 26 Picture when mouse hovered

Table 7 Test No 6

Test No	6
Action	Hovering mouse over the picture.
Expected Result	The picture was supposed to change from a black and white picture to a coloured one.
Actual Result	The picture changed from black and white to coloured one.
Test Result	The test was successful.

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Conclusion

The task given in this course work was completed with many researches and hard work. The task was not easy to complete as beside HTML we were beginners in other two languages CSS and JavaScript. So to meet up the requirement many researches were done for those languages. There were many times where I didn't understand some parts while researching but with much effort and more research I was able to understand those things. At first, a lot of research was done various websites were searched to take inspiration form and the wire frame was created using the references taken from other websites to create our own website. The wire frame was then created to get an idea of how the website looked. The layouts that were created for the websites were sometimes misplaced and sometimes the website didn't worked like it was supposed to. All these error was fixed by spending a lot of time and effort by searching for the mistakes and correcting them. After all those intense work the website was finally completed and was working properly without any error.

This coursework didn't only helped us improve our understanding of the web developing languages like HTML , CSS and JavaScript but it also gave us an better understanding of the structure of the website and navigation principle. We also learned about the impact of the technology in our daily life. We also became more aware about how important the design of the website. I've come to realize that proper planning and a lot of research is necessary while creating a website and felt that my own website could have been even more better with more research and time but as the time was limited it could not have been done. These skills and practices that I learned while creating the website are sure to be useful in the future if I choose my path as a web developer. As the task was not easy a lot of time effort and research was done but overall it was a fun experience and many valuable skills and knowledge were gained.

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This course work was given to us with an intention to complete the entire task and submit in the given time period but it can be useful as this can be used by me to use it as my website. It can be used in real life as a portfolio site as well. The design of this website can even serve as an inspiration for those who are creating their website. Moreover, this project has still got more room for growth and with more time and research it can be even better.

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experience ux. (2019) *experience ux* [Online]. Available from: https://www.experienceux.co.uk/faqs/what-is-wireframing/ [Accessed 9 May 2019].

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