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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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Introduction:

HTML:

HTML stands for Hyper Text Mark-up Language. It is used to design web pages using mark-up language. HTML is the combination of Hypertext and Mark-up language. Hypertext defines the link between the web pages. Mark-up language is used to define the text document within tag which defines the structure of web pages. This language is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly. Most of mark-up (e.g. HTML) languages are human readable. Language uses tags to define what manipulation has to be done on the text. HTML is a mark-up language which is used by the browser to manipulate text, images and other content to display it in required format. HTML was created by Tim Berners-Lee in 1991. The first ever version of HTML was HTML 1.0, but the first standard version was HTML 2.0 which was published in 1999.

HTML uses predefined tags and elements which tells the browser about content display property. If a tag is not closed, then browser applies that effect till end of page. The Basic structure of HTML page is given below. It contains some elements like head, title, body, ... etc. These elements are used to build the blocks of web pages. (Geeksforgeeks, 2017)

Features of HTML:

- It is easy to learn and easy to use.
- It is platform independent.
- Images, video and audio can be added to a web page.
- Hypertext can be added to text.
- It is a mark-up language.

CSS:

CSS (Cascading Style Sheets) is used to style and layout web pages — for example, to alter the font, colour, size and spacing of your content, split it into multiple columns, or add animations and other decorative features. This module gets you started on the path to CSS mastery with the basics of how it works, including selectors and properties, writing CSS rules, applying CSS to HTML, how to specify length, colour, and other units in CSS, cascade and inheritance, and debugging CSS. (Mozilla Foundation, 2019)

JavaScript:

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.

JavaScript was developed by Brendan Eich in 1995, which appeared in Netscape, a popular browser of that time.

The language was initially called LiveScript and was later renamed JavaScript. There are many programmers who think that JavaScript and Java are the same. In fact, **JavaScript and Java are very much unrelated. Java is a very complex programming language whereas JavaScript is only a scripting language**. The syntax of JavaScript is mostly influenced by the programming language C. (Guru99, 2019)

Discussion and Analysis:

I used Visual Studio Code to perform the coding section for my website. Using visual studio code tends to be quite helpful because it has more and better in-built functions compared to other software like Notepad++, Sublime text, Komodo Edit and many more. Personally, as a programmer, I find Visual Studio Code more advanced and useful. The dark theme itself attracts me while the bright theme in Notepad++ just makes me want to close the software instantly. It is true that we can insert dark theme to Notepad++ as well. Even though the comparison has huge difference with Visual Studio Code on the lead. Even with comparison to other great software like Atom, I prefer Visual Studio Code because it looks more developer oriented which increases my confidence with the coding. Visual Studio Code can call the entire folder at once. One of its function; Debug is quite a handy tool because it makes the debugging process of a program quite easy and fast. Another thing I liked about Visual Studio Code, is the Live Share feature. This feature allows us to share the VS code instance and allows someone remote to control and run other features like Debuggers. It also has a great feature of Split Viewing. And like I said before the plugins and themes are just worth coding for. Using Visual Studio Code, I created HTML files with .html extension, CSS files with .css extension and Javascript files with .js extension. I created 5 web pages namely; Home, Blog, Research, About Me and Contact Us. To each webpage I have assigned css or javascript to make the pages more active and responsive. With the help of css and javascript the webpages tend to look livelier and user friendly. I have used two external css file and a lot more internal and inline css. Using the css commands class and id I could control the presentation of my navigation bar. I could insert a logo in my webpage with and only with the help of css. Assigning colour, background, font size, padding and many other task or attribute is performed by the use of css. Adding videos and image sliders as well is done with the help of css. Coming at javascript, all the javascripts I have used are internal except for one. Javascript has been used for form validation, text animation, current date and time, prompt message and pop up transition. Using javascript I could validate my form and assign it to display message as per the input given by the user. In this way my webpage became quite user-friendly all thanks to javascript. Similarly, relative background image has been assigned and aligned with the help of css. The navigation bar has been fixed at the top with the help of css as well.

For the portion of wireframe, I used a software named Balsamiq. This software is very easy to use and has a search bar which makes it easy to search for any required figure that is available in the database of Balsamiq. A good built up wireframe helps to design a webpage perfectly. Hence, good tool must be selected for creating good wireframe. From my perspective, Balsamiq is the perfect software to create the perfect wireframe.

The following screenshots represent my wireframe design and website design:

1. Wire frame and Webpage of Home page:

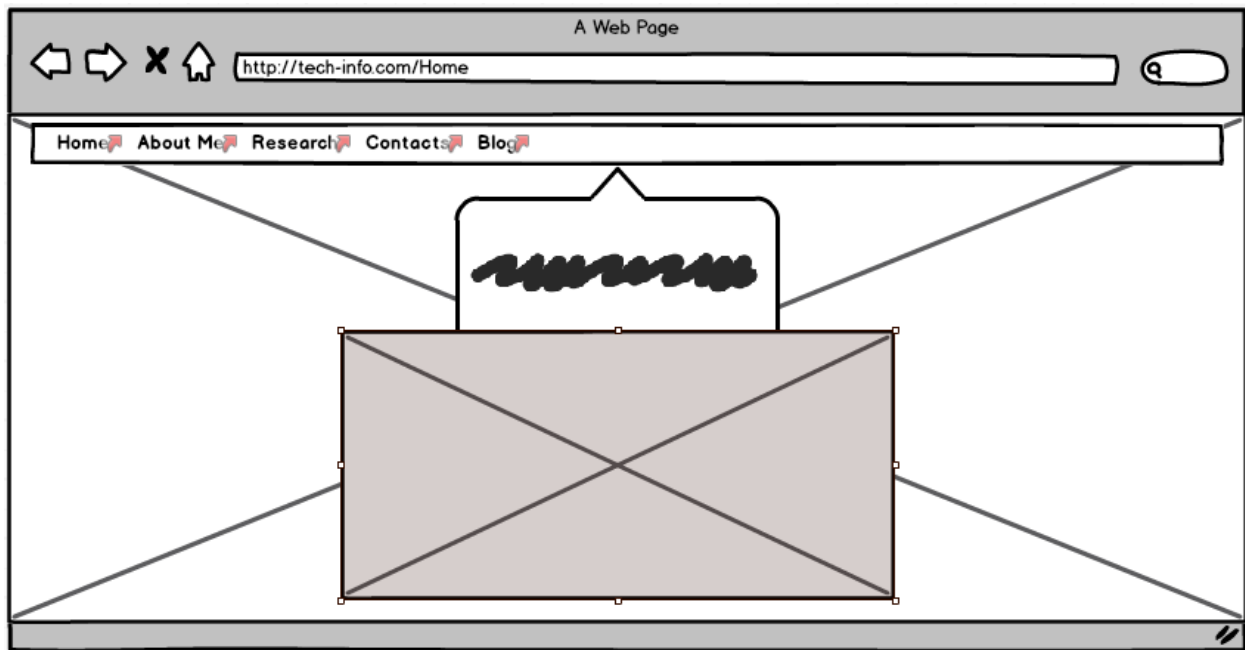


Figure 1 Wireframe Home.

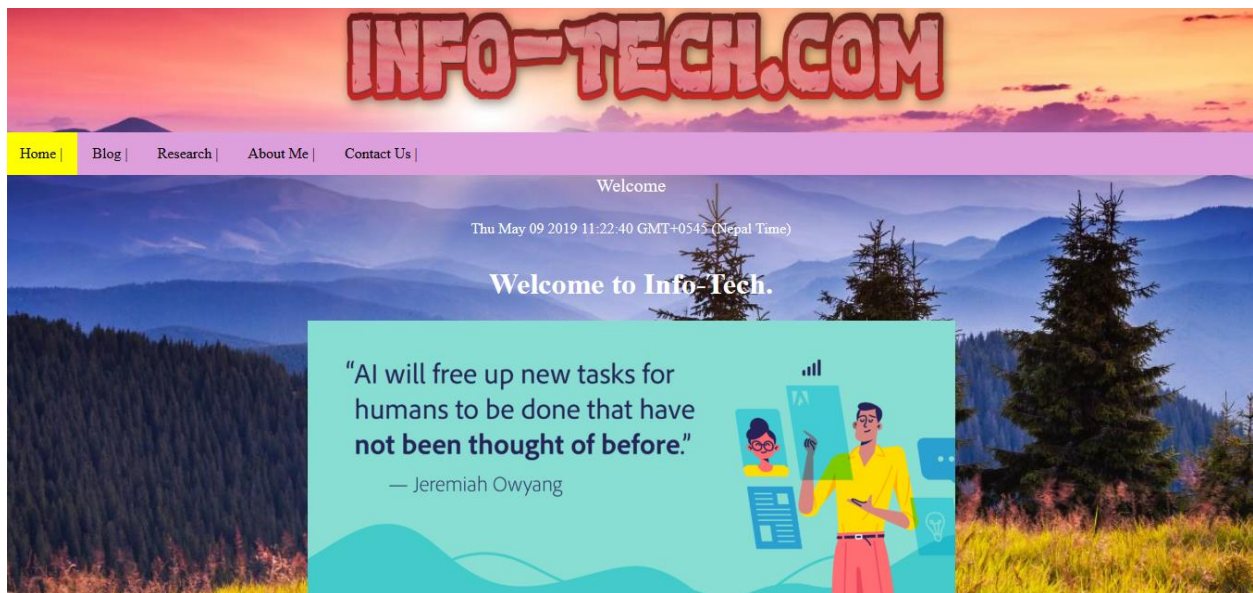


Figure 2 Webpage Home.

2. Wire frame and Webpage of Blog page:

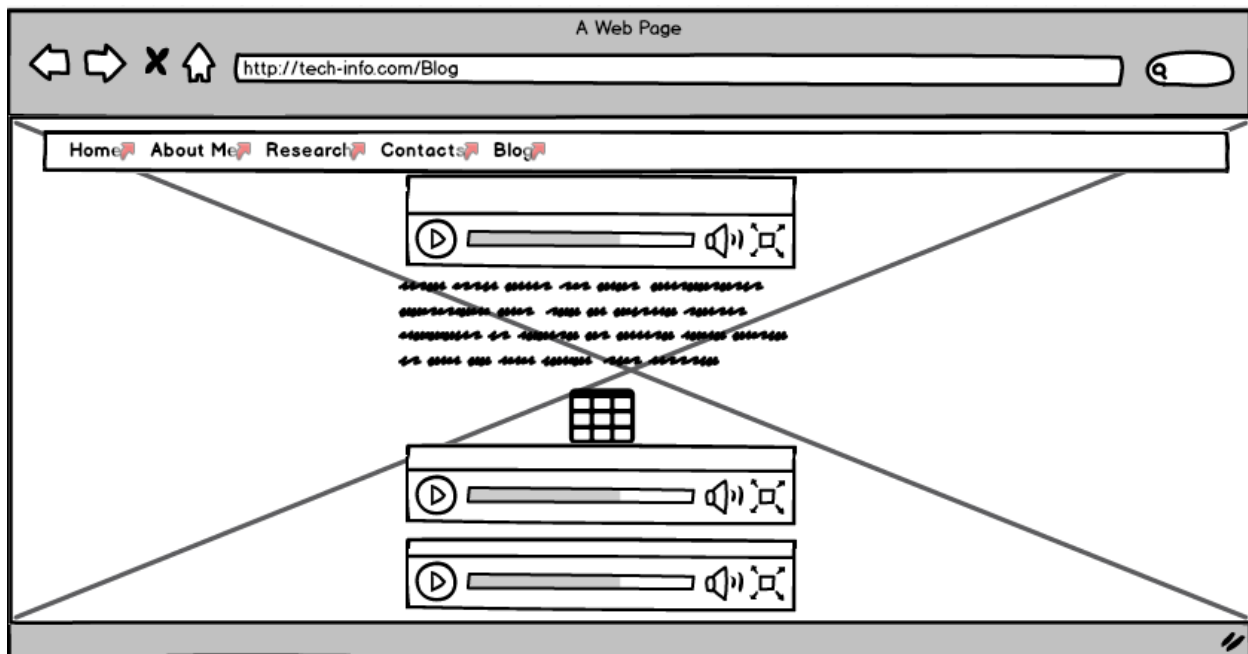


Figure 3 Wireframe Blog.



Figure 4 Webpage Blog 1.

Technology: It has effected the world with kinds one can not even image. Before 1878 A.D, who would have thought that one could actually portrait a story through visualization. But in 1878 A.D, the first movie was made namely "The Horse In Motion" which was of about 15 seconds long. Likewise, the first telephone to be invented was invented on 1876 A.D. Who would have thought of that either. The first camera itself was invented in 1814 A.D. And now, look where we've come. Iphones and DSLR cameras, look at how far we have come with technology. Technologies has become huge part of our lives. With advantages of having technologies, they has disadvantages as well. Here, we can see some of the advantages and disadvantages attained from technologies.

Effects of Technology	
Advantages:	Disadvantages:
<ul style="list-style-type: none"> Ease Of Access To Information Saves Time Ease Of Mobility Better Communication Means Innovation In Many Fields Improved Banking 	<ul style="list-style-type: none"> Replacing books with e-books Extinct of good handwriting Major challenges for teachers Makes learners disconnected from the real world Increase rate of cyber bullying Major sources of distractions

Figure 5 Webpage Blog 2.

<ul style="list-style-type: none"> Improved Banking Encourages development of new teaching methods Promotes independent learning in students Allows teachers to create an exciting way to educate students Artificial Intelligence 	<ul style="list-style-type: none"> Major sources of distractions Misguided by the wrong information Waste of valuable time Transforming learners into inefficient learners Immense expenditures
---	--

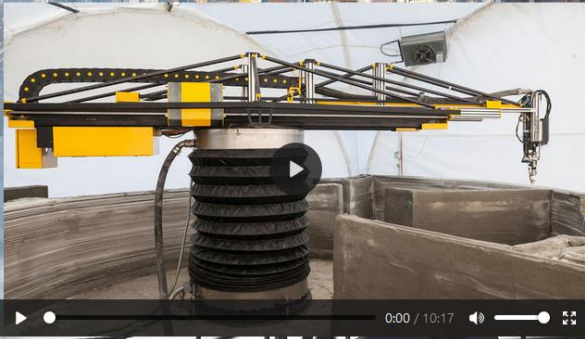


Figure 6 Webpage Blog 3.



Figure 7 Webpage Blog 4.

3. Wire frame and Webpage of Research page:

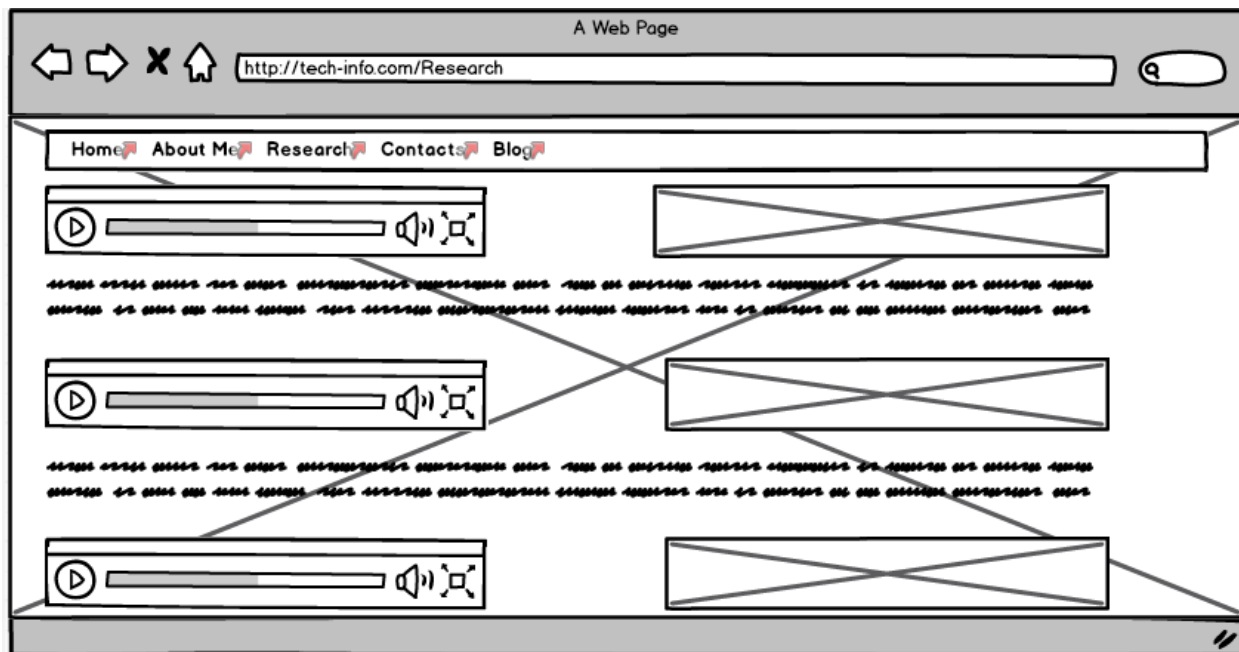


Figure 8 Wireframe Research.



Figure 9 Webpage Research 1.

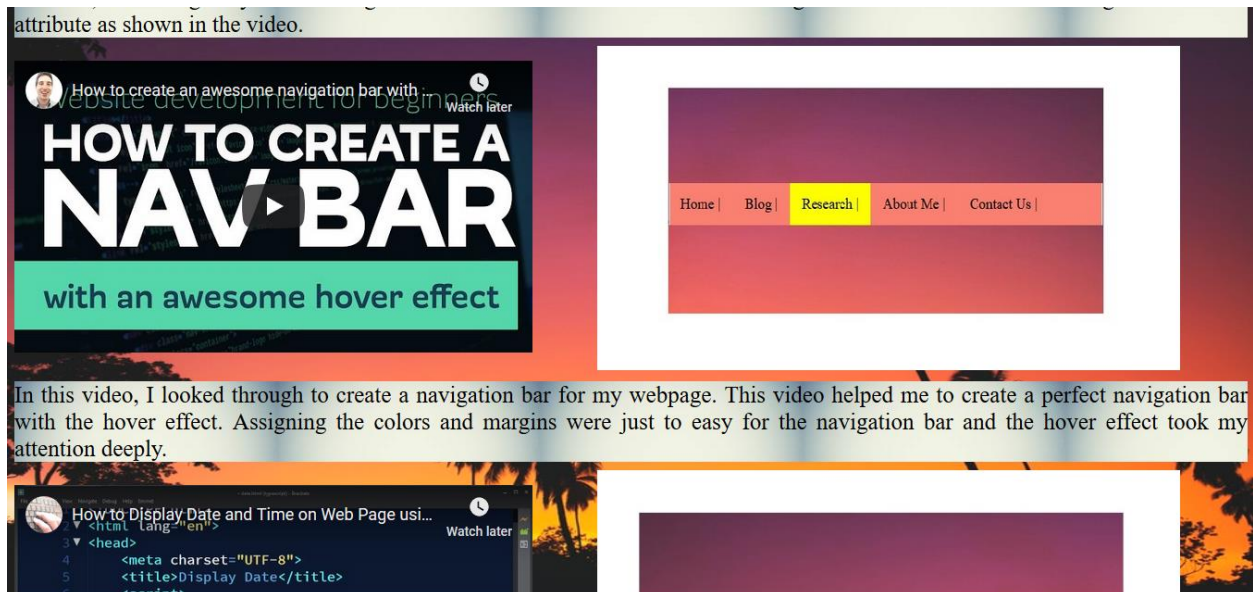
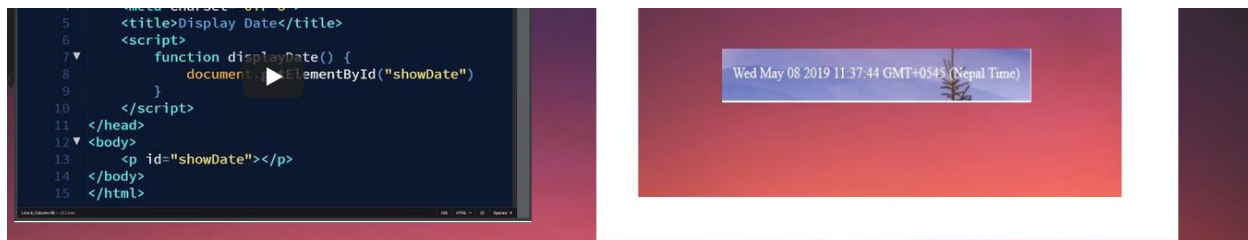


Figure 10 Webpage Research 2.



I wanted to add current date and time on my webpage. Looking at this video I found it easy to do so with the help of javascript. So, as per the instruction in the video, I did whatever the video asked me to do. In this way i created current date and time for my webpage.

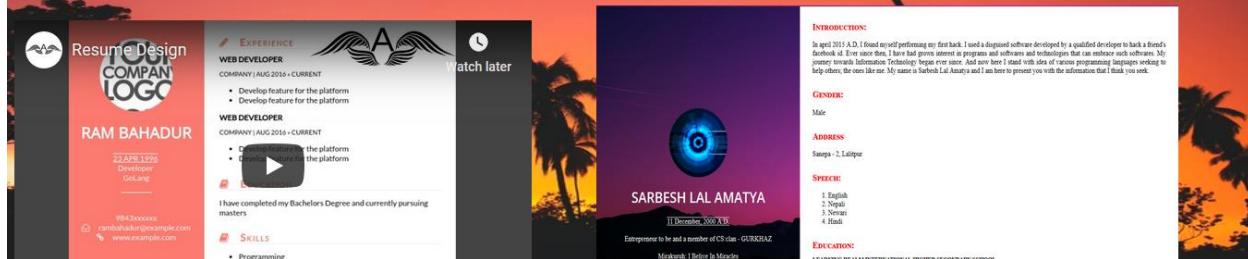
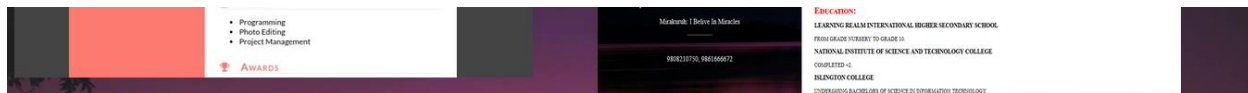


Figure 11 Webpage Research 3.



This video was so far the best video i came in contact with. Following the steps guided in the video i created my "About Me" section with no stress and infact learnt a lot of extra codes as well.



Likewise, this video helped me create my "Contact Us" section and poured quite a knowledge on form validation and submission. It gave me a little idea of how the webpage becomes responsive.

Figure 12 Webpage Research 4.

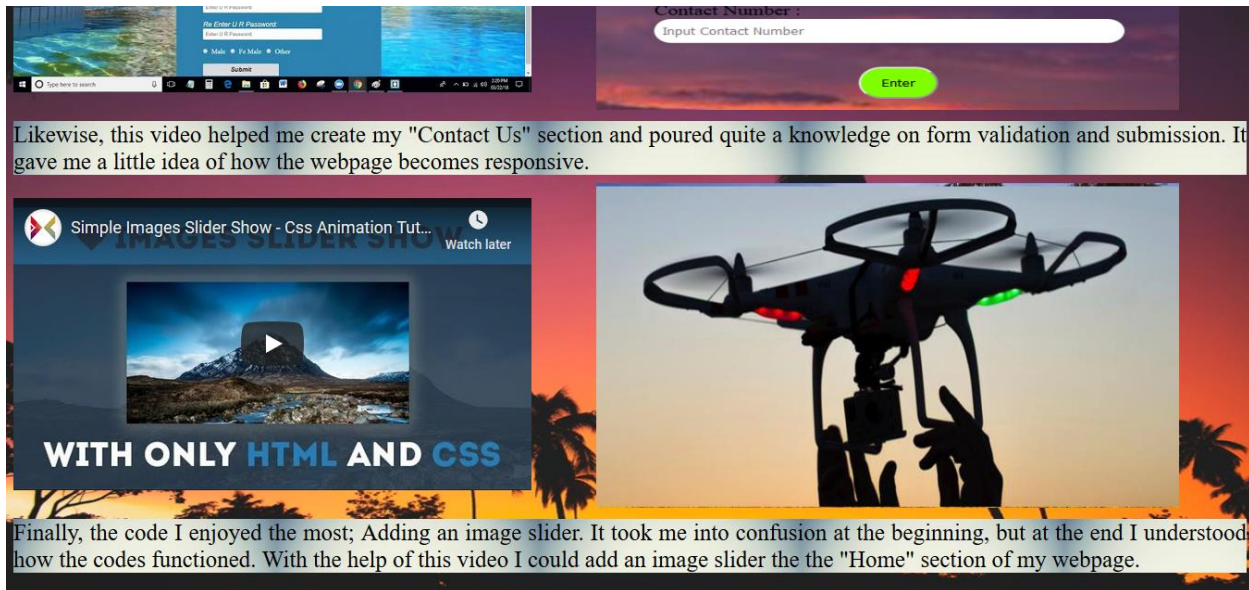


Figure 13 Webpage Research 5.

4. Wire frame and Webpage of About Me page:

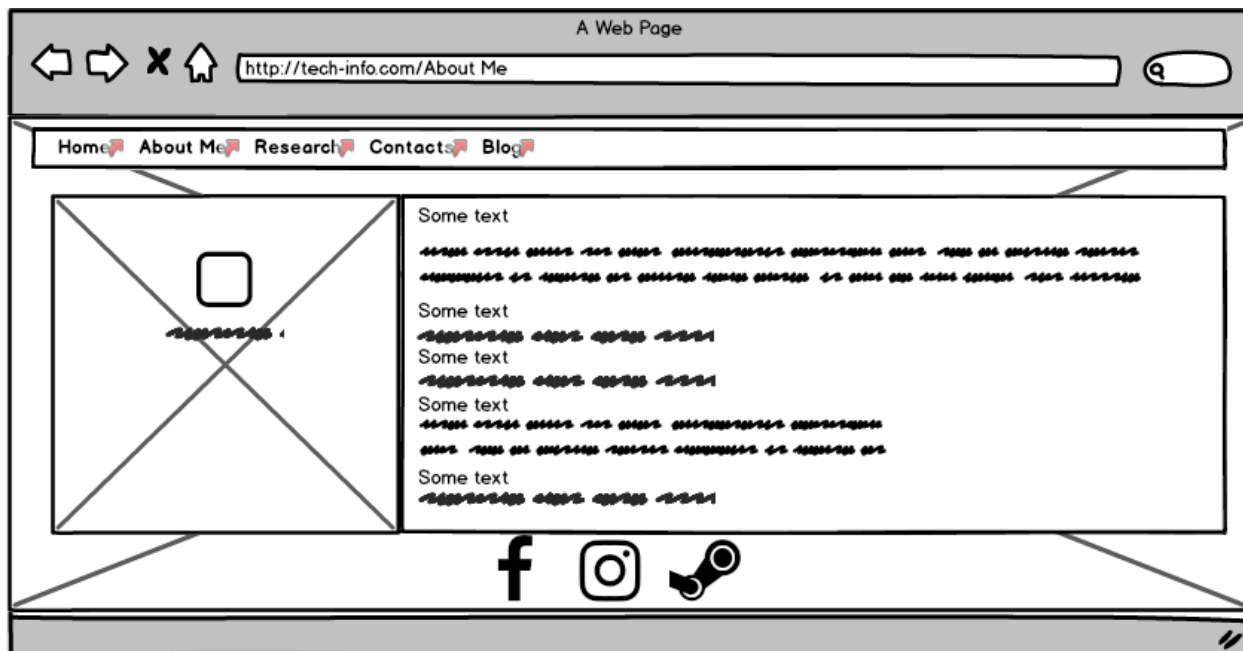


Figure 14 Wireframe About Me.

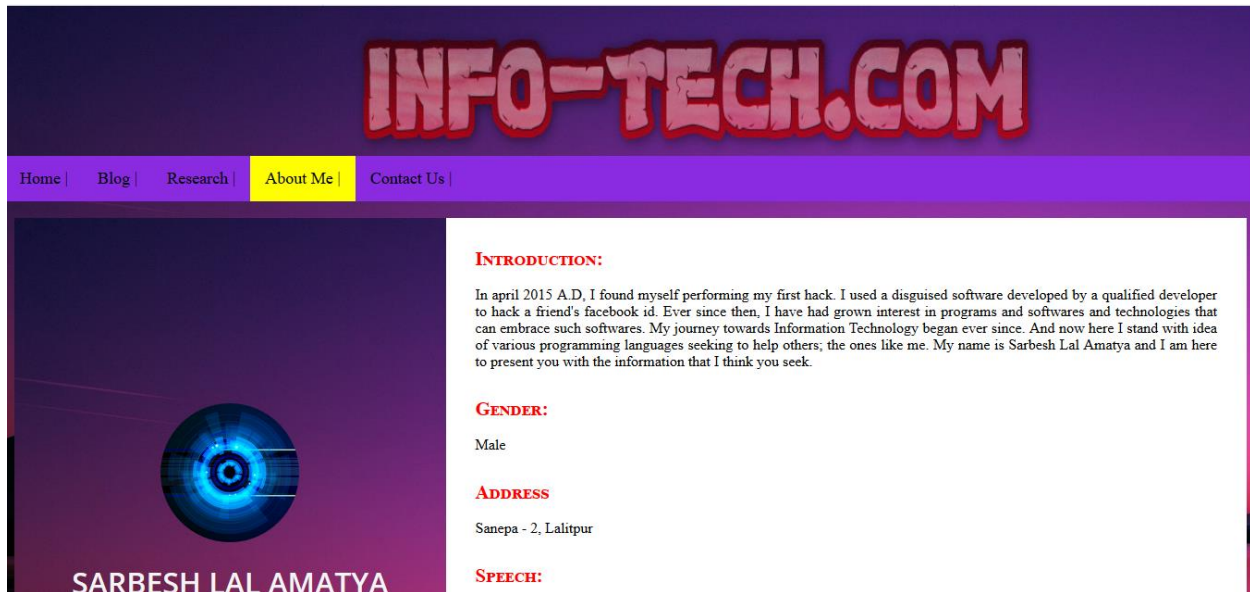


Figure 15 Webpage About Me 1.



Figure 16 Webpage About Me 2.



Figure 17 Webpage About Me 3.

5. Wire frame and Webpage of Contact Us page:

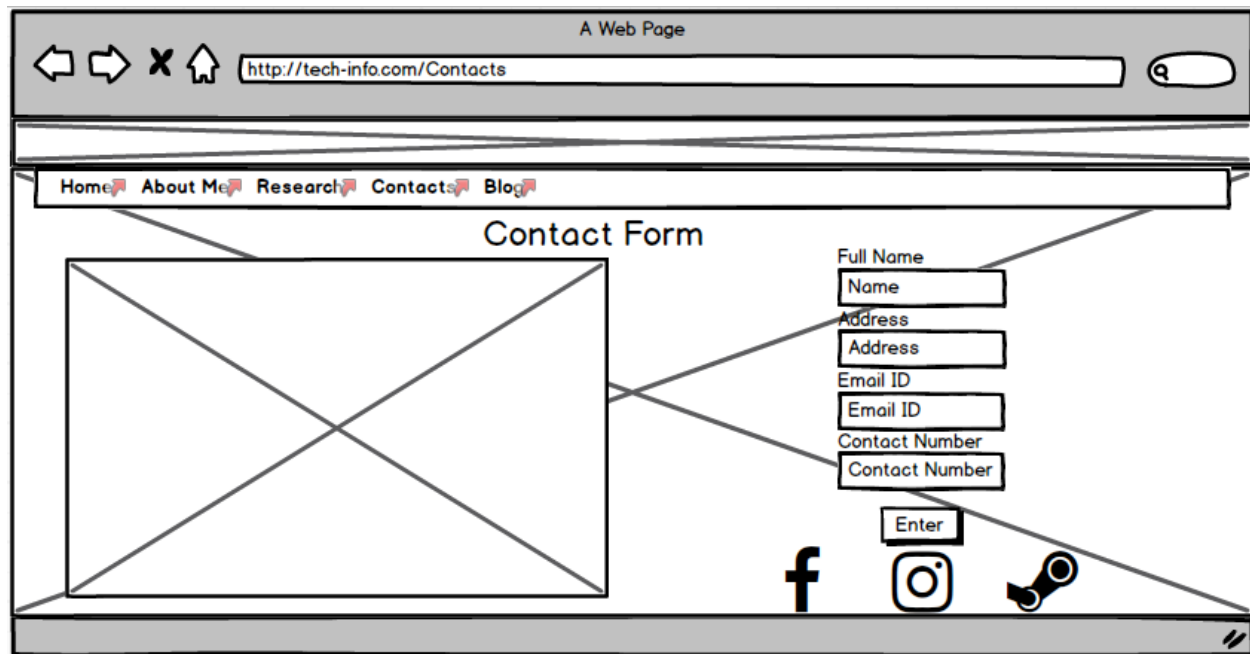


Figure 18 Wireframe Contact Us.



INFO-TECH.COM

Home | Blog | Research | About Me | **Contact Us**

Thu May 09 2019 11:34:24 GMT+0545 (Nepal Time)

Feel free to contact us any time any day !

Fill the form to contact us

Contact Form

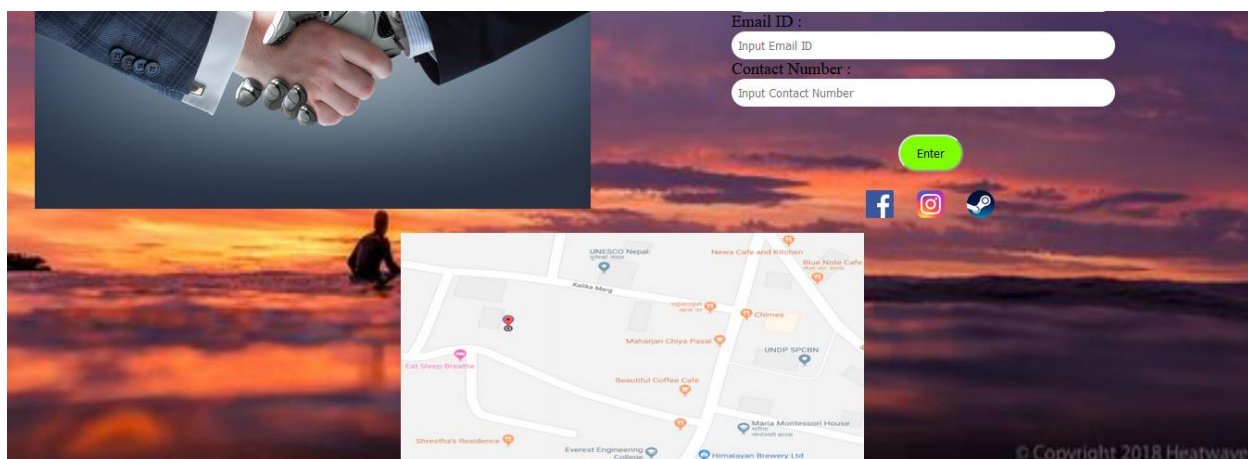
Full Name :

Address :

Email ID :

Contact Number :

Figure 19 Webpage Contact Us 1.



Email ID :

Contact Number :

Enter

Facebook Instagram WhatsApp

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Figure 20 Webpage Contact Us 2.

Testing:

1. Image Slider:

Four image that has been set up are supposed to change in time limit of 20 second. After the end of time interval of the last photo, the step repeats from first photo again.

```
.slider{  
  width: 700px;  
  height: 300px;  
  margin: 10px auto;  
  animation: slide 20000ms infinite;  
}  
  
@keyframes slide{  
  25%{  
    background-image: url(firstchange.jpg);  
  }  
  50%{  
    background-image: url(secondchange.jpg);  
  }  
  75%{  
    background-image: url(thirdchange.jpg);  
  }  
  100%{  
    background-image: url(fourthchange.jpg);  
  }  
}
```

Figure 21 Code for Image Slider.



Figure 22 Change 1.

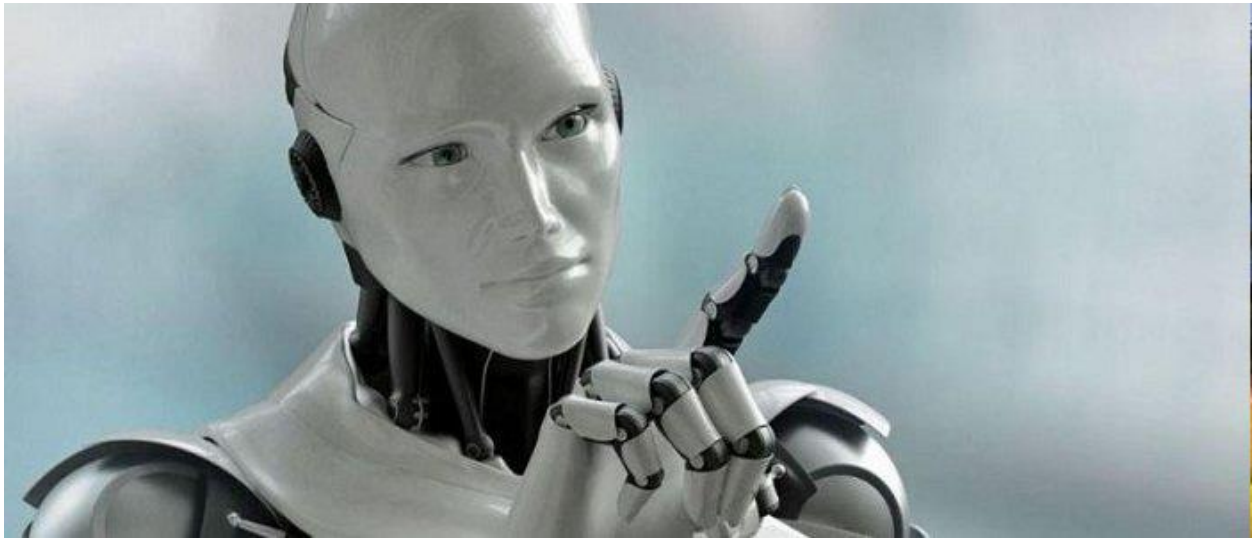


Figure 23 Change 2.

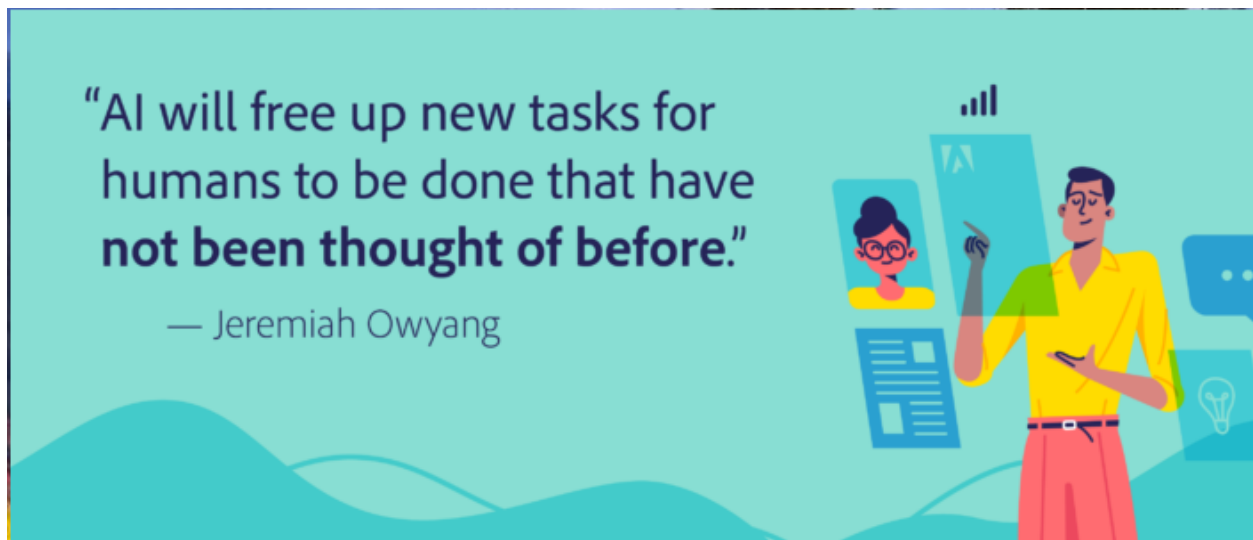


Figure 24 Change 3.



Figure 25 Change 4.

2. Font colour animation:

The font colour of the sentence “Welcome to Info-Tech” is supposed to change from white to red and again from red to white with time interval of one second.

```
<h1 id="hi">Welcome to Info-Tech.</h1>
<script>
  func1()
function func1(){
  document.getElementById("hi").style.color = "white";
  setTimeout(func2, 1000);
}
function func2(){
  document.getElementById("hi").style.color="red";
  setTimeout(func1, 1000);
}
</script>
```

Figure 26 Code for font colour animation.



Figure 27 Change 1.



Figure 28 Change 2.

3. Current Date and Time:

The date and time of the moment is supposed to be active in the desired area.

```
<p id="date">
  <script type="text/javascript">
    function display_c(){
      var refresh=1000;
      mytime=setTimeout('display_ct()',refresh)
    }

    function display_ct() {
      var x = new Date()
      document.getElementById('ct').innerHTML = x;
      display_c();
    }
  </script>
</head>

<body onload=display_ct();>
<span id='ct' ></span></p>
```

Figure 29 Code for date and time.



Figure 30 Current Date and Time.

4. Form Validation:

The form should respond according to the input provided by the user. For example; as per the code I have written, if all the fields are full, then a message is displayed saying "Thank you for the feedback". Likewise, if any one or more of the field is kept empty or unfilled then a message is displayed saying "You have left an empty field. Please fill the form completely".

```
<script>
function validateForm() {
  var Fullname = document.forms["messageForm"]["Fname"].value;
  var YourAddress = document.forms["messageForm"]["Address"].value;
  var EmailAddress = document.forms["messageForm"]["Email"].value;
  var CNumber = document.forms["messageForm"]["CNum"].value;

  if (Fullname == "" || YourAddress == "" || EmailAddress == "" || CNumber == ""){
    alert("You have left an empty field. Please fill the form completely.");
  }
  else {
    alert("Thank you for the feedback.");
  }
}
</script>
```

Figure 31 Code for form validation.



Fill the form to contact us

Contact Form

Full Name :
Sarbesh Lal Amatya

Address :
Sanepa - 2, Lalitpur

Email ID :
sarshlov@gmail.com

Contact Number :
9808210750

Enter

Figure 32 Filling the fields.

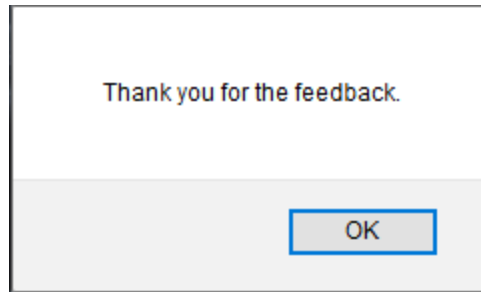


Figure 33 Dialogue for completely filled text box.

Fill the form to contact us

Contact Form

Full Name :

Address :

Email ID :

Contact Number :

Figure 34 Keeping the field empty.

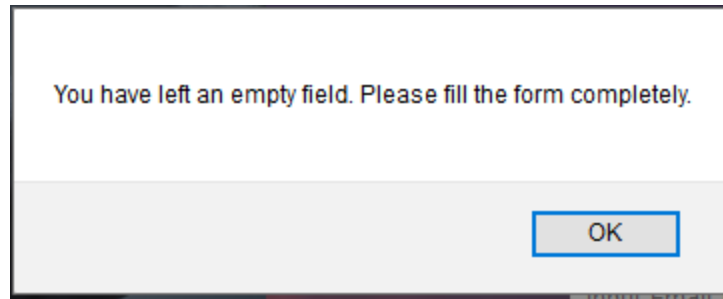


Figure 35 Dialogue for empty text fields.

5. Media Buttons:

```
<div class="icons" align="center">
  <a href="https://www.facebook.com/sarshlov1" class="facebook"></a>
  <a href="https://www.instagram.com/sarbish_amatya/" class="instagram"></a>
  <a href="https://steamcommunity.com/profiles/76561198435129180/" class="steam"></a>
</div>
```

Figure 36 Code for media 1.

```
.icons{
  float:left;
  margin-left: 310px;
}
```

Figure 37 Code for media 2.

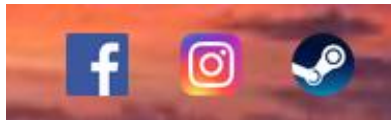


Figure 38 Media that can direct to respective profiles.

Conclusion:

This coursework turned out to be even more interesting than I had imagined. I was quite familiar with HTML but CSS and Javascript was a little bit unfamiliar to me. Yet after going through the lecture slides, surfing through the internet and watching over the videos put up on YouTube, I found it quite easy and entertaining. First of all, I read the question very clearly and tried to understand what the project wanted from me. Then I opened my Visual Studio Code and started creating necessary HTML, CSS and Javascript files. Then after, I began coding through some stuffs. I gave my website some designing using CSS and gave them responsive feature using javascript.

The given coursework is about developing a website consisting of five webpages with the heading Home, Blog, Research, About Me and Contact Us. These five webpages have HTML, CSS and Javascript assigned relatively. Each webpage has both similar and different HTML, CSS and Javascript. The provided website is developed to provide the viewers with some knowledge about the new technologies of the generation we live in. It defines both the advantages and disadvantages that technology has brought to our lives. The Home section welcomes the user with a small and sweet welcome message. Likewise, the blog section contains a few videos on the latest and upcoming technologies. It also explains what technology is and how it has affected our live in both good and bad manner. Then comes the research section where I explain why and how I have used the coding to make my website more interactive and responsive. After this, comes the About Me section, where I have left with a small resume and explained the viewer of the type of person I am. Finally, comes the Contact Us page: the page with the help of which, the viewer can contact me or provide any feedback as desired.

References

Geeksforgeeks. (2017) *About us - GeeksforGeeks* [Online]. Available from: <https://www.geeksforgeeks.org/html-introduction/> [Accessed 9 May 2019].

Guru99. (2019) *What is JavaScript? Complete Introduction with Hello World! Example* [Online]. Available from: <https://www.guru99.com/introduction-to-javascript.html> [Accessed 09 May 2019].

Jain, S. et al. (2016) *HTML | Introduction - GeeksforGeeks* [Online]. Available from: https://www.w3schools.com/html/html_intro.asp [Accessed 9 May 2019].

Mozilla Foundation. (2019) *Introduction to CSS - Learn web development | MDN* [Online]. Available from: https://developer.mozilla.org/en-US/docs/Learn/CSS/Introduction_to_CSS [Accessed 9 May 2019].