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Free Education



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Task 1 (1.1, P1, M1)

Discuss the design concepts that have to be considered when designing the website.

Introduction:

World Wide Web (WWW) is technology that allows users to access document from web servers via internet. These documents are known as web pages. A web page generally consists of images, texts, hyperlinks, form elements, menus etc. A website is group of related webpages that falls under same web map.

With the constant development of web technologies, concept of design also keeps upgrading. The key concept of web design is to provide not only rich UI but also related and satisfying contents in the webpage. This document discusses several key elements in design concept that has to be considered while developing the website.

Users

One of the key elements while designing website is user and usability. Website is basically designed for users hence user experience for different types of users should be taken into consideration while designing website. Website should give users good experience and information finding should be easy. Users can be categorized into expert, regular, occasional and novice.

Expert

Expert user means users with high experience and proper knowledge of websites and technology. Noted by Helander et al. (1997), experienced users' hates to waste time and tends to use shortcuts to make experience efficient. These users want customizable elements in the website and try new things.

Novice

Novice users on the other hand are just curious user with no

Regular

Regular users are those users who visit website regularly and has knowledge of website technology. They have idea about how different webpages works. Where they can find feedback form or donate us form. What gallery page has and how to navigate to news page with no hesitation. They are less experienced and have less knowledge as compared to expert users.

Occasional

This type of user only visit website occasionally. They have very little but specific knowledge of website. Whenever they visits website they only perform few tasks in which they are comfortable. These users require additional help while performing tasks they are not familiar with.

proper knowledge of site, its foundation. These users are

new to the system and needs basic interface that can help them to get used to the system. Novice users are afraid to try new things due to the fear of mistake. Young (n.d.) suggests, design for the novice user should avoid complex user interface (UI) and user should be able to perform common tasks easily.

Rules and heuristics for good website design

There is some basic guidance to make website better. According to sharpened (2012), they states there are top ten rules in web designing. Following these rules helps to make website up to minimum standard. Top Ten rules for web designing are listed here below:

1. Selection of color makes difference, consistent use of color and strong contrast between text and background is crucial.
2. Web site should support multiple browsers.
3. Layout in webpage must me consistent.
4. Website should be error free such as invalid links, unsupported content, expired downloads etc.
5. Avoid using template, just in case of maintenance it helps to maintain site more effectively.
6. Don't just focus on web design but also keep the content of website in mind.
7. Use different style sheet for different platform. Website should be fully fit in the browser.
8. Keeping the site simple is the key. Designer should avoid unnecessary confusing elements in website.
9. Web pages should be well managed. Navigation should be done properly.
10. Make sure website design and user experience of website is beautiful enough user will remember it as it's the first thing user notice in website.

Site Analysis

December dot com (n.d.) describes site analysis as a process of gathering information to compare and improve overall website quality. Site analysis helps to design site which meets organizational objectives and demand of intended users. It identifies the contents for the webpage and makes required suggestions.

should be instructions for user for filling up forms, FAQ pages, images etc.

There are several online tools available which performs site analysis for the developer and suggest improvements. These suggestions include W3C validation, accessibility, page load, text size, image number and size etc. Working on these suggestion leads to better website performance such as usability, page load duration etc.

SITEANALYZER

Analysis report <http://imfreee.com/>

Overview

Global score: 50.2%

Accessibility

The website's accessibility is in most cases an aspect left behind. It is therefore one of the most important aspects in a website's SEO strategy.

This accessibility can be seen from different point of views.

From a human point a view, it is very important to be able to analyze if the content is readable

Figure 1 Online site analysis

Accessibility

Accessibility is another key concept in designing that is needed to be considered while designing website. World Wide Web Consortium (W3C) has developed W3C's Web Accessibility Initiative (WAI) that provides guideline for web developers/authors to allow people with disability access the website with full potential, W3C (2014).

This guideline refers disable people of all types. Some of the major categories of disabilities are as follow (WEBAIM, 2014).

- Visual: color blinds, low vision, blindness
- Motion: difficulty in using hands, fingers leading to inability of using mouse
- Auditory: Inability of hearing (deafness), hard hearing
- Cognitive: inability to learn, inability to focus on large information

While designing website several methods can be implemented in website to make it accessible for everyone. Some of the methods are listed below.

- Use of alternative text: Visually impaired users are unable to get proper information from

Atut Gorkhali (HND/Second Semester)

9

images hence use of alternative text allows them to get the information

- User of proper font size
- Use of audio clips in website for user with blindness
- Resizable page
- Use of google Map

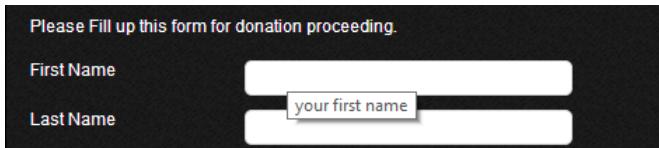


Figure 2 Instruction for user to type first name here.

Environments

While designing a website environment plays key role. Basically, two things are taken into consideration. First, development environment and second, where from what environment website will be accessed such as browser, operating system, hardware. Below, some of the key elements in web environment are discussed.

HTML

W3SCHOOL (n.d.) defines hypertext markup language (HTML) as markup language that describes webpages. An html page consists of html tags. These tags are used to signify content in webpage.

(CSSBASICS, n.d.) Style of fonts, background, border etc. is achieved through this file. Developers use this environment for ease of development as well as webpage performance, flexibility and maintainability.

CSS

Cascading style sheet (CSS) file allows designer to create separate style file for the webpage. In this file presentation of the webpage is described

CSS can be internal in which CSS codes are written inside HTML page. Other type is external in which external CSS file is linked to HTML page via HTML TAG.

Java script

According to powers (2011) java script is simple yet powerful client side programming language which is inbuilt in the browser. Java scripts makes HTLM pages more interactive and visually stunning. With help of java script animations, developing simple 2D games in browser is possible. Java script libraries (such as JQuery) contain pre build effects which can be used to make User Interface (UI) amazingly good looking. But not all platform, browser supports java scripts hence it

can sometimes raise compatibility issue.

Computer Platform

User may browse website from any computer platform. In modern era there is easy access to several types of computer platform. Some of the major platform types are mobile, tab, laptop, desktop computer etc. While designing website, intended platform is kept in mind. Website designed for laptop or desktop computer may not be compatible with mobile or tab and vice versa. To avoid compatibility issues designer may design separate website design targeting different computer platform.

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Task 2 (2.1, M2)

Design an interactive website to meet the given requirements in the scenario.

Identification of needs: Clients need

- Home
- Projects
- Project Read More/Free Education
- Partners
- Partner Profile/UNICEF
- News
- Gallery
- Donate Us
- Contact Us
- FAQ

Home

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September 21st, 2014

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October 1st, 2014

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Welcome to the Children Education Foundation.

Children Education Foundation is a non-profit organization whose mission is to develop the potential of disadvantaged Nepalese children through education. NCEF identifies children unable to pursue education because of economic situation of their families. Students are provided with tuition, textbooks and supplies to enroll in school. Our dedicated network of volunteers in Nepal meet regularly with the children and their parents to monitor the progress of the student through school. We dedicate our resources to each child until they complete their high school education

Established in 2002, CEF has raised about US \$150,000 and awarded more than 500 annual scholarships in Kavre, Nepalganj, Patan, Sunsari-Inaruwa, Chitwan, Dolakha and Sindhupalchok. NCEF has identified dedicated local coordinators and volunteers to administer the scholarships while meeting its requirements of financial accountability and regular follow-ups with the children.

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Projects

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CEF Academy is an organization on a mission. We're a not-for-profit with the goal of changing education for the better by providing a free world-class education for anyone anywhere. All of the site's resources are available to anyone. It doesn't matter if you are a student, teacher, home-schooler, principal, adult returning to the classroom after 20 years, or a friendly alien just trying to get a leg up in earthly biology. Khan Academy's materials and resources are available to you completely free of charge. How it works for students Students can make use of our extensive library of content, including interactive challenges, assessments, and videos from any computer with access to the web. Coaches, parents, and teachers Coaches, parents, and teachers have unprecedented visibility into what their students are learning and doing on Khan Academy.

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ISMT	Save The Children	WHO	Unicef	UN
				
Our Child Group	Government of Nepal	US Embassy	Nepal Children Family	Kavre Club

● 1 ●

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UNICEF

The UNICEF logo features a white globe with two children, a boy and a girl, facing each other. Below the globe, the word "unicef" is written in a lowercase, sans-serif font.

UNICEF

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News

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New Website launched ◦ CEF announces partnership with unicef ◦ Scholarshio program announced

Children Education Foundation. (CEF) is excited to announce the launch of our newly designed website, which goes live today, Monday 5th september 2014 and is located at the same address: www.mengo.org. That's right folks, we took a dose of our own medicine. The new site's homepage welcomes visitors with a clean uncluttered design, with featured content focused on our mission to provide our viewers with the most accurate information, strengthen members relations and share our knowledge and expertise in the field of environmental subjects.

The new site is completely fluid, fully responsive and fits all types of browser resolutions. It also has a touch-friendly mobile navigation menu. By moving to a more client-centric layout, we allow visitors to access information based on their own choice rather than sift through everything to decide what is of interest to them. We hope you like our new website. If you experience any problems using it or if you have any suggestions, please contact us at admin@mengo.org.



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Please Fill up this form for donation proceeding.

First Name

Last Name ! Please fill out this field.

Email Address

Confirm Email Address

Age

Gender Female

Nationality Nepal

City

Last Name

Message/Suggestion

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Contact Us

Connect to us via this contact form.

Name

Email Address

Message

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Frequently asked questions.

✚ What is the meaning of free Education?

▬ Why Education is necessary?

Education is a thing which can't be taken from any one. An educated person can understand the right ways he can do work and get a opportunity in world. An uneducated can't understand the real aim of life they can't understand how to do work and get a opportunity of respect in era. They can't understand the modern era. They just know that we are a labour and we have to do hard work. But the life is not for labour there are many thing more than labour. But that are just 4 an educated person. Being a student I think every one should have to get education because the education is any thing that can't be taken from anyone.

✚ How Can I help Children Education Foundation?

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Task 3 (2.2)**Evaluate the website design with at least other two users.****Introduction**

A good website should be accessible for any type of user. The ability of user to browse the website should not hamper its usefulness. This document evaluate the design for develop website for children's education foundation. Evaluation of design is based on the usefulness, user-interactivity of website for two different users. Validation of forms is also considered in the evaluation process.

Usefulness**Normal User**

Content of the website is as per requirement of the client. This website delivers news/information about NGO's events and activities to its user. User should find it useful to get information through news articles, gallery, images etc. Website provides detail information about NGO's projects and partners which is very useful to user.

Disabled User

Disabled user should also find the website useful. Use of appropriate font site allows user with general low vision read the content with nominal effort. Images has alternative text hence users is unable to understand an image they can get information through alternative text. Both disabled and normal user can utilize FAQ feature which contains frequently asked questions. Disabled users also use google map to find and visit the main office.

User-interactivity**Normal User**

Normal user will find user-interactivity in the site interesting. Site has interactive menus, galleries, links and google map. Scrolling images in gallery, browsing through different pages needs user interactivity with normal user can perform with ease.

Disabled User

The main menus are designed simple so that disabled users don't need to put extra effort finding the contents. Links are well placed and active. User with motor disability will find it hard to interact with the website as there is no alternative mechanism for browsing through different pages than mouse

click. Scrolling images needs user interaction hence motor disabilities will have problem with this website.

Validation

Normal User

Validation of forms in this site is done properly. Form element doesn't allow blank textboxes or invalid email address. Normal users will find validation helpful during donation process or during sending feedback through CONTACT US page.

Disabled User

Disabled user will find validation feature more useful. User with low vision tends to submit wrong email address or leave blank textbox, validation process will ask them to submit valid information if they make mistake.

Conclusion

Evaluation of designed website for children's education foundation shows it is suitable of different types of users. Both normal and disabled user will find this site quite useful to get information. User with motor disability will find this site less useful as navigating through webpages, links, and images requires mouse click interactivity. Other types of disabled users will find this site easy to user.

Task 4 (3.1, D2)**Implement a fully functional interactive website using the design specification.****Image Banner with Animation**UI (Display)HTML

```
<div id="site_content">
  <ul id="images">
    <li></li>
    <li></li>
    <li></li>
    <li></li>
    <li></li>
    <li></li>
  </ul>
<div id="sidebar_container">
```

CSS

```
#site_content {
  width: 940px;
  overflow: hidden;
  margin: 0 auto 0 auto;
  padding: 0 0 15px 0;

}
```

Jscript

```
<script type="text/javascript" src="js/jquery.js"></script>
<script type="text/javascript" src="js/jquery.easing-sooper.js"></script>
<script type="text/javascript" src="js/jquery.superfish.js"></script>
<script type="text/javascript" src="js/jquery.kwicks-1.5.1.js"></script>
<script type="text/javascript">
  $(document).ready(function() {
    $('#images').kwicks({
      max : 600,
      spacing : 2
    });
    $('ul.sf-menu').superfish();
  });
</script>
```

JQuery

```
(function($){
    $.fn.kwicks = function(options) {
        var defaults = {
            isVertical: false,
            sticky: false,
            defaultKwick: 0,
            event: 'mouseover',
            spacing: 0,
            duration: 500
        };
        var o = $.extend(defaults, options);
        var WoH = (o.isVertical ? 'height' : 'width'); // WoH = Width or Height
        var LoT = (o.isVertical ? 'top' : 'left'); // LoT = Left or Top
    }
});
```

Menu

UI



HTML

```
<nav>
    <ul class="sf-menu" id="nav">
        <li class="selected"><a href="index.html">Home</a></li>
        <li><a href="#">About Us</a>
            <ul>
                <li><a href="partners.html">Partners</a></li>
                    <li><a href="project.html">Projects</a></li>
                    <li><a href="Stastistics.html">Statistics</a></li>
                </ul>
            </li>
            <li><a href="news.html">News</a></li>
            <li><a href="gallery.html">Gallery</a></li>
```

CSS

```
ul.sf-menu {
    display: block;
    position: relative;
}

ul.sf-menu li {
    display: block;
    list-style: none;
    float: left;
    position: relative;
}
```

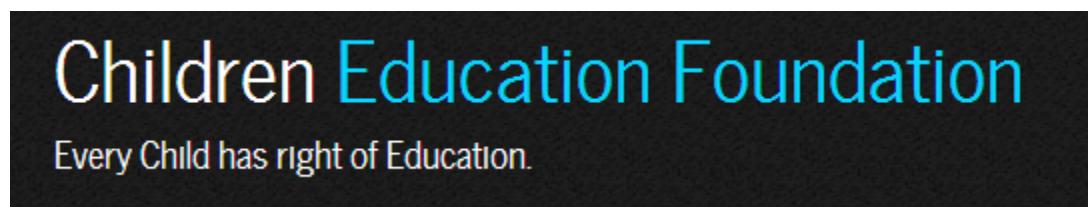
Jscript

```
$( 'ul.sf-menu' ).sooperfish();
```

JQuery

```
$.fn.sooperfish = function(op) {

    var sf = $.fn.sooperfish;
    sf.o = [];
    sf.op = {};
    sf.c = {
        menuClass : 'sf-js-enabled',
        isParent : 'sf-parent',
        arrowClass : 'sf-arrow'
    };
    if ($.easing.easeOutOvershoot) { //set default easing
        sooperEasingShow = 'easeOutOvershoot';
    }
}
```

Header BannerUIHTML

```
<div id="logo">
    <div id="logo_text">
        <!-- class="logo_colour", allows you to change the colour of the text -->
        <h1><a href="index.html">Children<span class="logo_colour"> Education Foundation</span></a></h1>
        <h2>Every Child has right of Education.</h2>
    </div>
</div>
```

CSS

```
#logo_text h1 a .logo_colour {
    color: #09D4FF;
}

#logo_text a:hover .logo_colour {
    color: #09D4FF;
}

#logo_text h2 {
    font-size: 140%;
    padding: 0 0 0 0;
    color: #FFF;
}
```

FooterUI

Copyright © | Children Education Foundation | KAVRE | Contact

HTML

```
<footer>
  <p>Copyright ©</p><a href="index.html">Children Education Foundation | KAVRE</a> | <a href="contact.html">Contact</a></p>
</footer>
```

CSS

```
footer {
  width: 940px;
  font: 170% 'Yanone Kaffeesatz', arial, sans-serif;
  height: 30px;
  padding: 20px 0 20px 0;
  text-align: center;
}
```

FormUI

Name Atut Gorkhali

Email Address atut

Message

! Please include an '@' in the email address. 'atut' is missing an '@.'

send

HTML

```
<form id="contact" action="contact.html" method="post">
  <div class="form_settings">
    <p><span>Name</span><input class="contact" type="text" name="your_name" required /></p>
    <p><span>Email Address</span><input class="contact" type="email" name="your_email" required /></p>
    <p><span>Message</span><textarea class="contact textarea" rows="6" cols="50" name="message" required ></textarea></p>
    </p>
    <input class="submit" type="submit" name="contact_submitted" value="Send" /></p>
  </div>
</form>
```

CSS

```
.form_settings input, .form_settings textarea {
  padding: 5px;
  width: 299px;
  font: 100% arial;
  border: 1px solid #D5D5D5;
  background: #FFF;
  color: #47433F;
  border-radius: 7px 7px 7px 7px;
```

Google Map

UI



HTML

```
<div id="map_canvas"></div>
```

CSS

```
<style>
  #map_canvas {
    width: 940px;
    height: 700px;
  }
</style>
```

Jscript

```
<script src="js/map.js"></script>
<script>
  function initialize() {
    var mapCanvas = document.getElementById('map_canvas');
    var mapOptions = {
      center: new google.maps.LatLng(27.6886729, 85.3499313),
      zoom: 18,
```

JQuery

```
window.google = window.google || {};
google.maps = google.maps || {};
(function() {

  function getScript(src) {
    document.write('<' + 'script src="' + src + '"'+
                  ' type="text/javascript"><' + '/script>');
  }
```

FAQ Click RevealUI**► What is the meaning of free Education?**

Free education refers to education that is funded through taxation, or charitable organizations rather than tuition fees.

✚ Why Education is necessary?

HTML

```

<section id="faq-list">

    <h2>What is the meaning of free Education?</h2>
    <div class="answer">
        <p>
            Free education refers to education that is funded through taxation, or
            organizations rather than tuition fees.
        </p>
    </div>
    
    <h2>Why Education is necessary?</h2>
    <div class="answer">
        <p>
            Education is a thing which can't be taken from any one. An educated person
            has the right ways he can do work and get a opportunity in world. An uneducated can't understand
            how life they can't understand how to do work and get a opportunity of respect in era
            understand the modern era. They just know that we are a labour and we have to do hard w
        </p>
    </div>

```

CSS

```

.answer {
    display:none;
}

h2.close {
    background-image:url('images/close.png');
}

```

Jscript

```

<script type="text/javascript" src="js/modernizr-1.5.min.js"></script>
<script src="js/jquery-1.9.1.min.js"></script>
<script>
    $(document).ready(function() {
        $('#faq-list h2').click(function() {
            $(this).next('.answer').slideToggle(500);
            $(this).toggleClass('close');
        });
    });
</script>

```



JQuery

```
function (e, t) { return t.toUpperCase() }, H = function (e) { (o.addEventListener("complete" === o.readyState) && (q(), b.ready()) ), q = function () { o.addEventListener("DOMContentLoaded", H, !1), e.removeEventListener("load", "onreadystatechange", H), e.detachEvent("onload", H)) }; b.fn = b.prototype = init: function (e, n, r) { var i, a; if (!e) return this; if ("string" == type 0) && ">" === e.charAt(e.length - 1) && e.length >= 3 ? [null, e, null] : N.ex || n.jquery ? (n || r).find(e) : this.constructor(n).find(e); if (i[1]) { if merge(this, b.parseHTML(i[1], n && n.nodeType ? n.ownerDocument || n : o, !0)) i[1].clientWidth < 5 || (i[1].style.width = (i[1].style.width || i[1].width || i[1].naturalWidth || i[1].offsetWidth || i[1].getBoundingClientRect().width || i[1].getComputedStyle(i[1]).width) + "px") } } } );
```

Sidebar

UI

- ## Latest News

New Website Launched

September 21st, 2014

September 2014 sees the redesign of our website. Take a look around and let us know what you think.

[Read more](#)
- ## Donate Us

October 1st, 2014

You can help our mission by donating us cash, books and other useful goods.

[Read more](#)

HTML

```
<div id="sidebar_container">
  <div class="sidebar">
    <h3>Latest News</h3>
    <h4>New Website Launched</h4>
    <h5>September 21st, 2014</h5>
    <p>September 2014 sees the redesign of our website. Take
      a look.<br /><a href="#">Read more</a></p>
```

CSS

```
#sidebar_container {  
    float: left;  
    width: 248px;  
    margin: 10px 0 0 0;  
}  
  
.sidebar {  
    float: right;  
    width: 220px;  
    margin: 0 0 17px 0;
```

Hyperlink Button

UI

[**Read more**](#)

HTML

```
<a href="donate.html">Read more</a></p>
```

CSS

```
a, a:hover {  
    outline: none;  
    text-decoration: underline;  
    color: #09D4FF;  
}
```

Task 5 (4.1, 4.2, D1)

Testing and its purpose

Testing is process of verifying whether website satisfied the specified requirement. Testing is very essential step in web designing process. There are some very big reasons makes testing more important. Here are some of those important reasons.

1. To understand the reliability of the website.
2. To check test bugs in website codes.
3. To check web design meets requirements specifications.
4. To check usability of web design
5. To check website works in different browsing environments.

Categories of testing

Black box testing

Black box testing is also described as functional testing. In this type of testing internal structure of website is unknown to tester. Tester only knows the possible input and expected output but have no knowledge of how website works internally to give that output. Access to code is not required in this type of testing.

White box testing

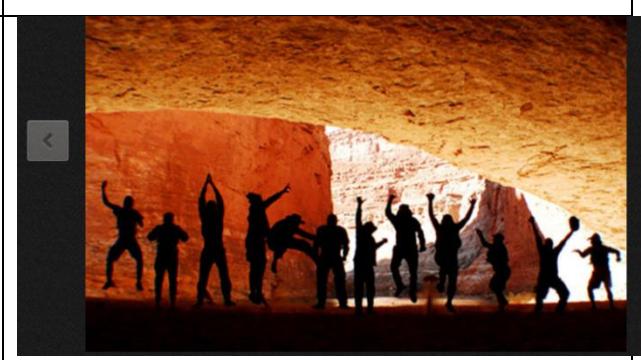
Unlike in black box testing, in white box testing internal structure is known to the tester. White box testing involves internal structure testing. Tester keeps internal structure of the website in mind during the test process and meets the result with the requirement specification. In this type of test, test goes beyond interface level to find level of correctness in the system. White-box testing includes unit testing, integration testing and stress testing etc.

Since, tester has knowledge and access to code; they can remove unnecessary lines of code to improve the website.

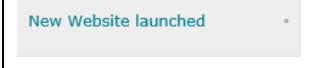
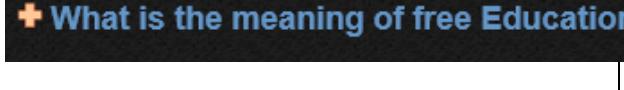
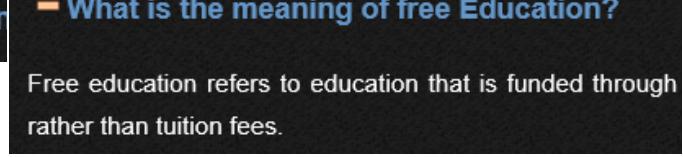
Testing of the web design in this context involves several types of testing such as unit testing, compatibility testing, integrated testing, stress testing and W3C code validating.

Web design Testing**Unit Testing**

S.N	Test Date	What was tested	Expected Output	Actual Output	Test Result
1	10/30/2014	If hyperlink is working	Clicking hyperlink (read more) link should open new page with detail content	Our mission free education project page was opened when clicked on read more hyperlink in projects page.	OK
2	10/30/2014	Menu button click	Clicking on menu should open specified webpage	Opened webpage associated with the menu	OK
3	10/30/2014	Sliding images in gallery	Clicking next button should change image with next image and clicking previous button should change image previous image.	When clicked next arrow sign next image was displayed and when clicked previous click button previous image was displayed in image area.	OK

image before click in slider**Image after slider button clicked**

4	10/30/2014	What happens when clicked on different news tabs	Should navigate through different	When clicked on another tab, it displayed different news in content	OK
---	------------	--	-----------------------------------	---	----

			news section, different tabs should display different news	area.	
Default Tab			Different news in different tab		
 <p>New Website launched • CEF announces partnership with unicef</p> <p>Children Education Foundation. (CEF) is excited to announce our newly designed website, which goes live today, Monday 5th November 2014 and is located at the same address: www.mengo.org. As always, we have tried to make the site as user friendly as possible. We hope you like it! If you have any comments or suggestions, please don't hesitate to get in touch. We're always looking for ways to improve our service to you.</p> <p>FAQ</p> <p>Click</p>			 <p>New Website launched • CEF announces partnership with unicef</p> <p>What is the meaning of free Education?</p> <p>Free education refers to education that is funded through grants rather than tuition fees.</p>		
5	10/30/2014	FAQ question	Clicking on question should reveal answer with sliding animation.	When clicked on question in FAQ page, it revealed answer with sliding animation.	OK
Question Before click			Question after clicked, revealed answers		
 <p>+ What is the meaning of free Education?</p>			 <p>- What is the meaning of free Education?</p> <p>Free education refers to education that is funded through grants rather than tuition fees.</p>		
6	10/30/2014	Alternative text in image	Mouse hover on an image should display alternative text for accessibility purpose	When hovered over image, it displayed alternative text for the image.	OK
No mouse hover, no alt text			mouse hover, with alternative text for image		



Stress testing

S.N	Date of Test	What was tested	Expected Output	Actual Output	Remark
1	10/30/2014	Leaving blank field in form fields	Should give warning message saying blank field	Gave error message when blank field was left	
2	10/30/2014	Providing invalid email address	Should give warning message saying provide valid email id	Displayed error message when provided invalid email	

Compatibility testing

S.N	Date of Test	What was tested	Expected Output	Actual Output	Remark
	10/30/2014	Website browsed in safari	should display all content, web elements properly	Webpage displayed properly	
	10/30/2014	Website browsed in Mozilla Firefox	should display all content, web elements properly	Webpage displayed properly	
	10/30/2014	Website browsed in internet explorer	should display all content, web elements properly	Webpage displayed properly	

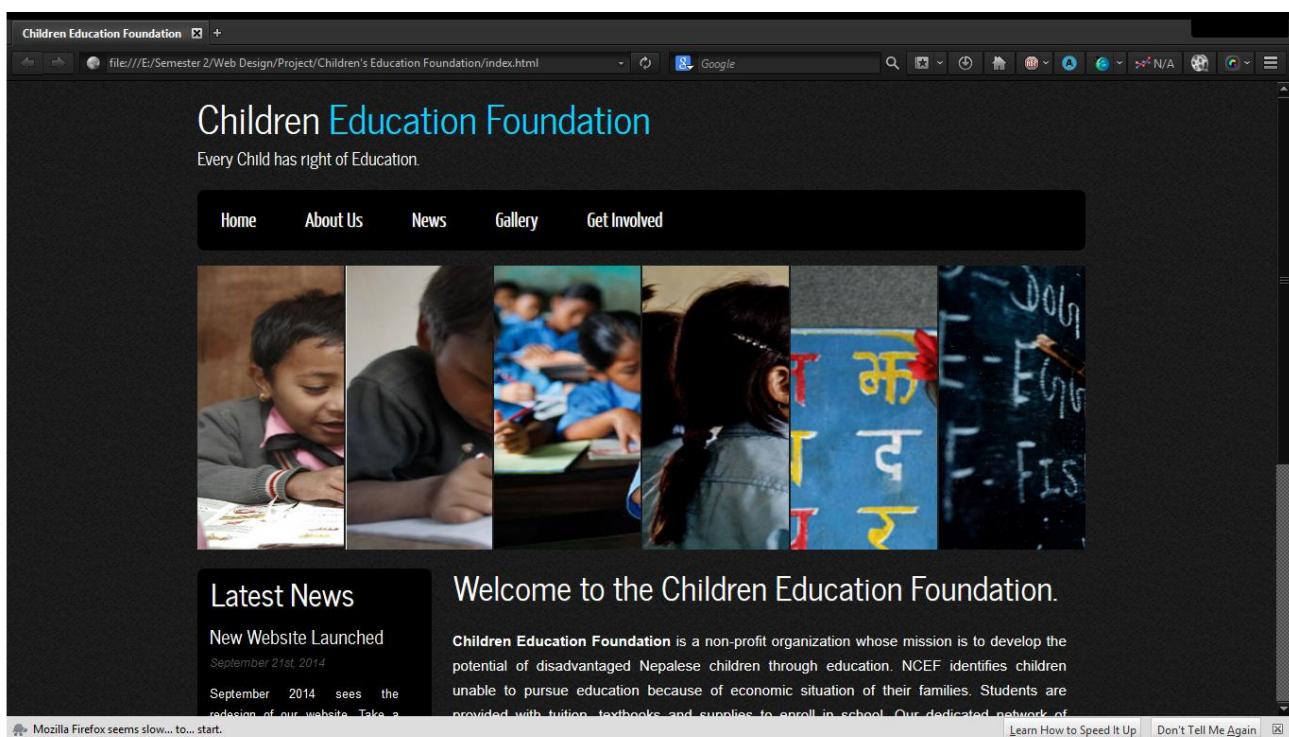


Figure 3 Screenshot of webpage in Mozilla Firefox

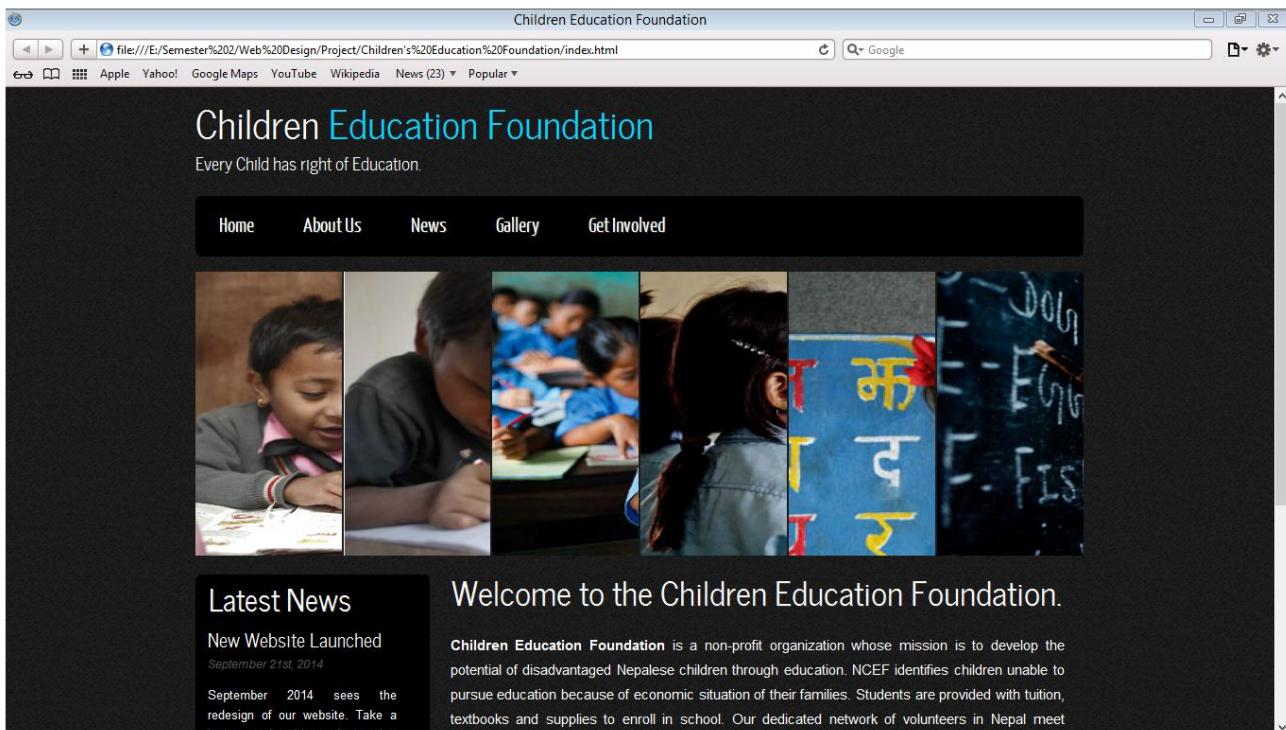


Figure 4 Screenshot of webpage in Safari web browser

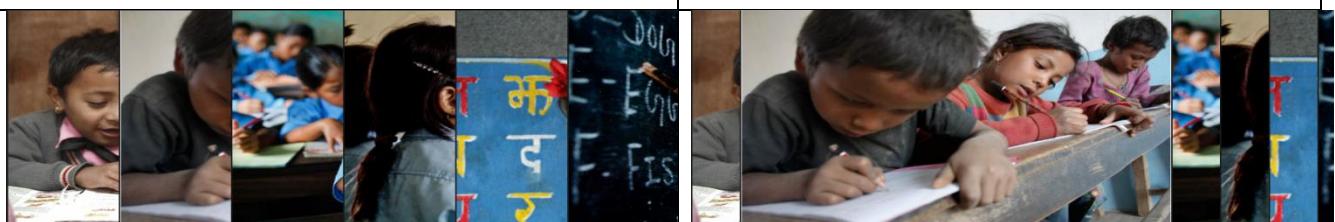


Figure 5 Screenshot of webpage in internet explorer 11

Integrated testing

S.N	Date of Test	What was tested	Expected Output	Actual Output	Remark
	10/30/2014	Integration of java script and jQuery	With use of java script and jQuery webpage would be able to contain animation such as gallery, image banner animation	Use of java script and jQuery allowed webpage to animate image banner	OK

Image Banner without jQuery and Java script **enlarged image with jQuery and Java script**



	10/30/2014	Integration of CSS	All the pages in website should be manageable with CSS file named style.css. CSS should allow to manage fonts, background, content area etc.	Style.css was able to manage web layout. When values were changed in CSS file result were seen in webpages.	
--	------------	--------------------	--	---	--

Managing background in CSS **Result in webpage (green background for test purpose)**

<pre>body { font: normal .80em arial, sans-serif; background: #063; color: #FFF; }</pre>	<p>Children Education Foundation Every Child has right of Education</p> <p>Home About Us News Gallery Get Involved</p>
--	--

W3C code validation Test

S.N	Date of Test	What was tested	Expected Output	Actual Output	Remark
	10/30/2014	Markup code was validated online in W3C standard HTML5	The online test should passed and show no error message	No error message was shown with few warning messages only	OK

W3C® Markup Validation Service
Check the markup (HTML, XHTML, ...) of Web documents

Jump To: Notes and Potential Issues Congratulations - Icons

This document was successfully checked as HTML5!

Result:	Passed, 2 warning(s)
Source:	<!DOCTYPE HTML> <html> <head> <title>Children Education Foundation</title> <meta name="description" content="website description" /> <meta name="keywords" content="website keywords, website keywords" /> <meta http-equiv="content-type" content="text/html; charset=UTF-8" /> <link rel="stylesheet" type="text/css" href="css/style.css" /> <!-- modernizr enables HTML5 elements and feature detects --> </head> <body>
Encoding:	utf-8 <input type="button" value="(detect automatically)"/>
Doctype:	HTML5 <input type="button" value="(detect automatically)"/>
Root Element:	html

W3C Validator Suite Try now the W3C Validator Suite™ premium service that checks your entire website and evaluates its conformance with W3C open standards to quickly identify those portions of your website that need your attention.

Critical review

Unit Testing

For the unit test of the web design different unit elements such as hyperlinks, menus, buttons, alt text were tested. These tests were based on actual output and expected outputs. During the unit test every test showed expected outputs.

Integrated Testing

Integration test on this website is done base on integration of web page's markup codes with CSS and java script or jQuery. Hence page layout control with CSS was tested. Changing value of

background color in style.css resulted change in back ground of webpage. This test showed CSS integration in the website is OK.

For java script jQuery animation in image banner was tested. Image banner was examined with and without jQuery and java script codes for animation in banner. Two different results were no animation with no jQuery and java script and animation with integration of those codes. This test showed CSS and jQuery is integrating very well with the website. For more tests, animation in menu, gallery, boarder style of webpage etc. can be test.

Stress Testing

For the stress test purpose validation of forms in the website was tested. Different elements such as name field, email fields etc. was tested by supplying invalid inputs. Blank values and invalid email address was passed to the field to test the validation. Result of the test showed validation is done properly hence invalid data provided by user cannot be submitted to website.

Compatibility Testing

Compatibility test of the website could be done in several ways such as test in different hardware environment and different browsing environments. Since this website is designed of larger screen computers such as laptops, desktops it is better to test its compatibility in different browsers. Hence website was tested in three different famous web browsers in the market.

Test in all three browsers safari, internet explorer and Mozilla Firefox showed good result. Web elements in the website were working as expected in all different environment. Only defect found in the test was in internet explorer on image in image banner was missing. But due to use of alternative text, text was showing in place of image.

W3C validation

The Markup Validation Service is a service provided by W3C. It allows tester to check quality of the web page, test error in HTML or XHTML codes. It is a step to ensure technical quality of the web pages. For this test html files were submitted to validator.w3.org and result showed no error message. This result showed website is up to technical quality of W3C validation.

Task 6 (4.3, D3)**Evaluate independent feedback and make recommendations for improvements.****Scenario Requirement**

Children Education Foundation is a small NGO (non-governmental organization) that works on various child related social work mainly on education. This NGO now want to broaden its area via a website. The requirement of this website is as follows:

- Should include images and slogan
- Should include donation form and feedback form
- Should looks professional and competitive
- Should be validated
- Should be W3C complaint
- Should use java script or jQuery for better interactivity and user experience

Evaluation and Independent Feedback

This report evaluates independent feedback on designed website for children education foundation. Independent feedback is carried out based on various criteria such as security, design, accessibility and browsing platform. This report will evaluate the strength and weaknesses of website based on independent feedback which will help to improvise the quality of website.

Design**Static webpage**

Designed website for the NGO is static website. Static website is also often described as flat or stationary website. This means webpages are delivered exactly as stored in the server. Webpages in this site does not include any server side scripting such as PHP or asp.net. Below are the advantages of designing static website.

1. These types of webpages are cheaper to develop
2. Design website takes much less time
3. Hosting static website is much cheaper than that of dynamic website
4. Loading time of static website is less than dynamic website.

Designing static website has fulfilled basic requirement of the website. Website contains images, hyperlinks, menus; feedback and donation form and has java script/jQuery for better user

interactivity and user experience.

Limitations

Though static website matches the basic requirement of website it does have limitations that can be improved. Designing static website has its own drawbacks. Some limitations in designed website are listed as bellows:

1. As website is static it is always same and doesn't change as per user input
2. Web designer is required for even slight update in webpage, as news section is needed to be updating quite frequently, static website becomes more expensive in long run.
3. Integration with online payment system for donation is not possible
4. Even though it has donation and feedback form, it is not able to store information provided by user via those forms.
5. User may get bored and less interested by getting same content over and over again.

Improvement Feedback

Dynamic Webpage

To improve the quality of designed website and reduce the limitations, dynamic website can be designed for the NGO. Dynamic website would eliminate the limitations of website listed above. Some of the positive merits of designing dynamic website are as bellows:

1. Content of website would change as per user input enabling unique features
2. Online donation is possible via online payment system such as PayPal, Moneybookers etc.
3. User feedback and their information can be store in database.
4. Content of website can be updated easily
5. Allows in-site search engine which helps user to find required content within website itself.

These dynamic sites can be developed either using PHP/SQL or asp.net. Though at start dynamic website are expensive than static website, in long run dynamic website is demand of modern web market and reduces the cost of website operation.

Security

Since, the designed website is static and user input makes no difference in the information in the website, less care is taken of security in website. Even though site contain donation form, online donation is not possible since static website only contain client site scripting and online purchase, payment is not possible i.e.; integration with PayPal, Moneybookers or other online payment service

is not possible.

Limitations and Improvement Feedback

As in design section to improve quality of website implementation of dynamic webpages is suggested, proper action should be taken for secure site if site is dynamic. Dynamic website would allow online donation transaction requiring safe and secure website to gain trust of user. For that these action can be taken as listed below.

1. Get HTTPS by SSL certification

HTTPS is secured HTTP. Means data transmitted are encrypted so no other party than client and server can access the information. For this there are two different encrypting layers: Transport layer security and secure site layer.

To insure website is secure SSL certification can be purchased which is online authentication which ensures data sent to server is encrypted. There are many SSL certification providers in web market, some of the famous certification provider are Norton, godaddy.com, verisign.com etc.



Figure 6 HTTPS sites



Figure 7 Norton Secure Site Certification Logo

2. Implement Captcha in when submitting form

Captcha is a program that helps to identify user is human or machine. In captcha automated random number, text is generated which user need to answer correctly to prove user is human while submitting a form. Captcha helps to prevent site from bots and spammers from attacking the website.



Figure 8 Captcha to ensure user is human

Platform

Laptop/Desktop

This website is designed for larger screen computers such as desktop pcs and laptops. The website width is set 940 PX; which means displaying website and its element in large screens is not a problem. To add to that, test carried on browser compatibility showed this website is compatible with different major web browsers such as Mozilla fire box, safari and internet explorer.

Limitations and Improvement Feedback

Since width of the website is set to be 940 PX; this means browsing this website through small screen device is not suitable.

Mobile/Tab Browser

To overcome the above issue of browser compatibility website can be designed for small sized device such as mobile and Tabs. For this layout of the website should be redesigned considering the standard size of small sized device. Example of web compatibility in different platform is shown below in figure 5.

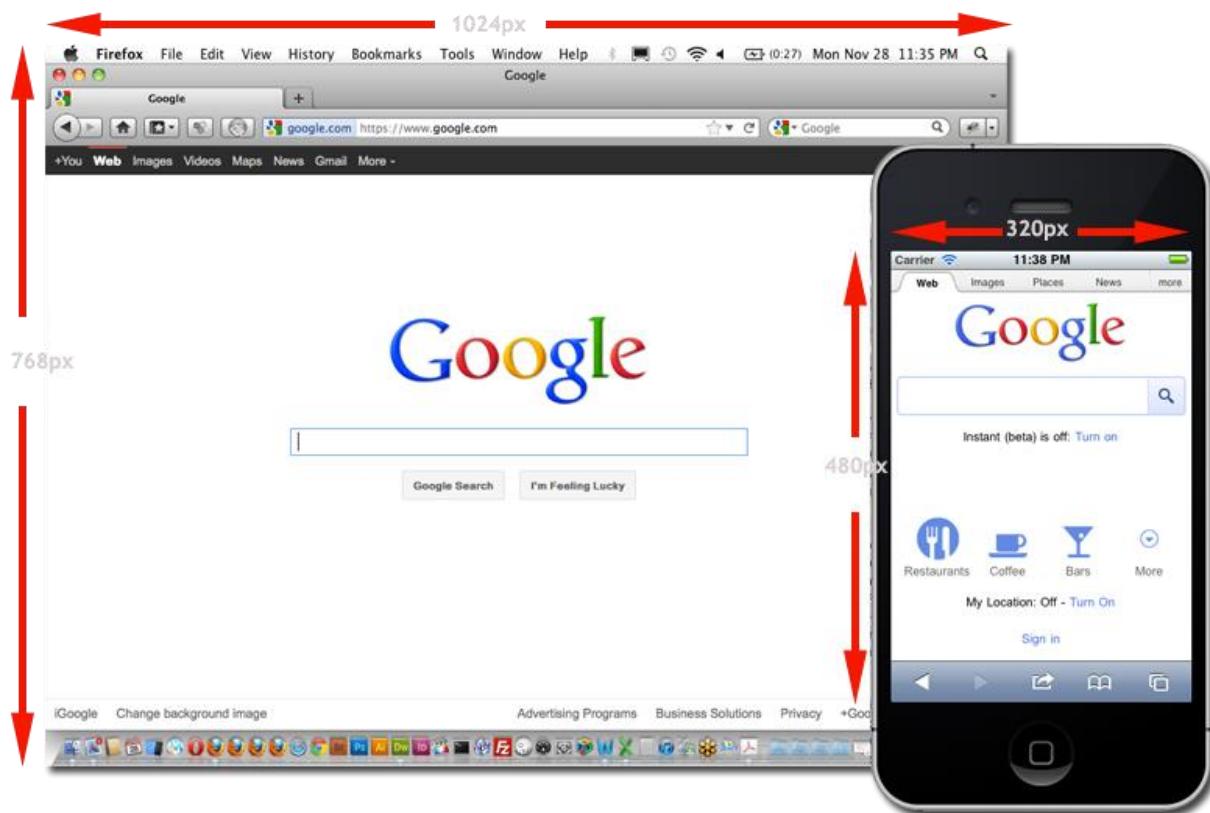


Figure 9 Demonstration of Mobile site (source: <http://www.invision-studios.com/files/8413/2254/3174/desktop-vs-mobile.png>)

Accessibility

Accessibility is other important criteria considered while evaluating this website. There are different features in the website that enhance the accessibility of website. Some of those features are noted below.

Google Map

Google Map in contact us form is one of many evidence that shows this site is designed keeping accessibility in mind. Inclusion of google map ensures disabled user who have problem in using this website can visit the office in person and get required information.

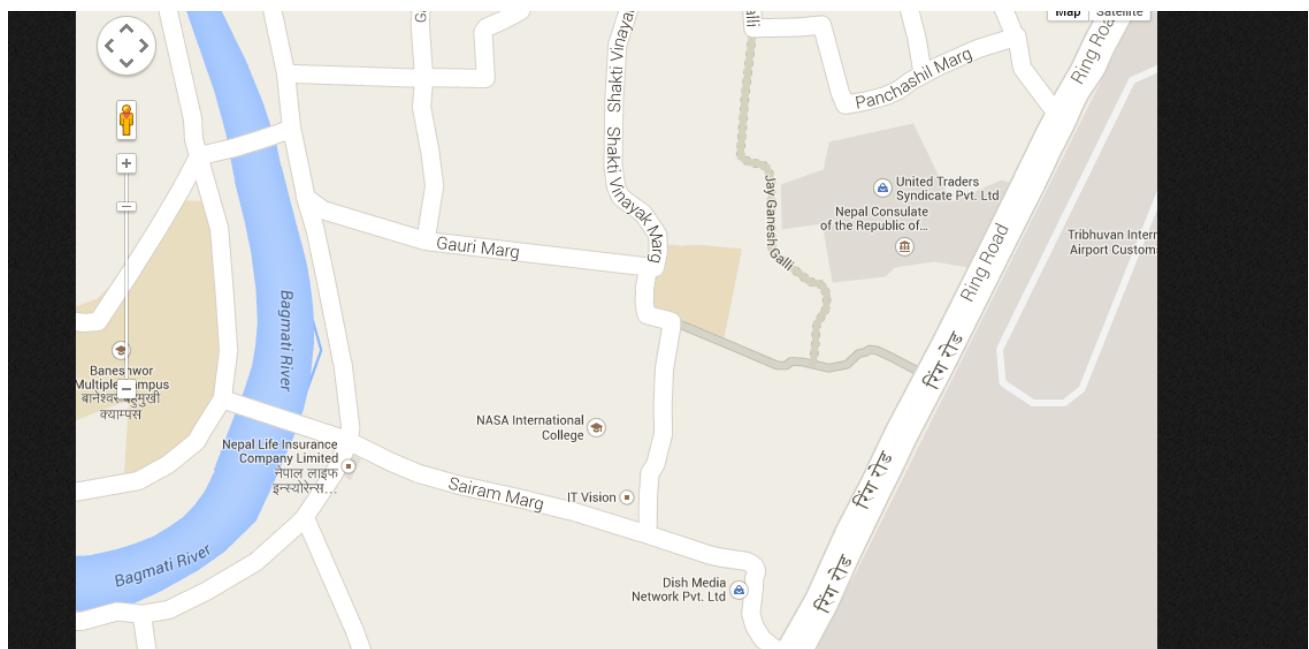


Figure 10 Google Map in Designed Website of CEF

Alternative Text

Alternative Text is another feature of this website to make the site more accessible. Alternative text, as the name suggest provide alternative text to image. If a user is having problem to see the image alternative text can help him/her.



Figure 11 Image with alternative text

Validation

Validation is properly done in this website according to test report. This validation work also enhances the accessibility of website. Error message in form when wrong information is submitted helps user to provide right information in right field.

Figure 12 Validation done in Form that improves accessibility.

Limitations Improvement Feedback

Even though website tries to be more accessible, it still has some areas where improvement can be done. User with less English knowledge may find this site less useful as this site is fully built on English. Another limitation of the site is user with disability to read and learn would find this site less useful as unavailability of audio/video contents. To eliminate this issue and improve the overall accessibility of website below listed techniques can be implemented.

Multilanguage

Making website Multilanguage means site's contents are available in different languages. User can select the required language and then content will be displayed in selected language. Multilanguage feature is generally added in dynamic website. Multilanguage website would mean more international exposure and would able to attract the user to its content.



Figure 13 Example of Multilanguage site

Use of Audio/Video Content

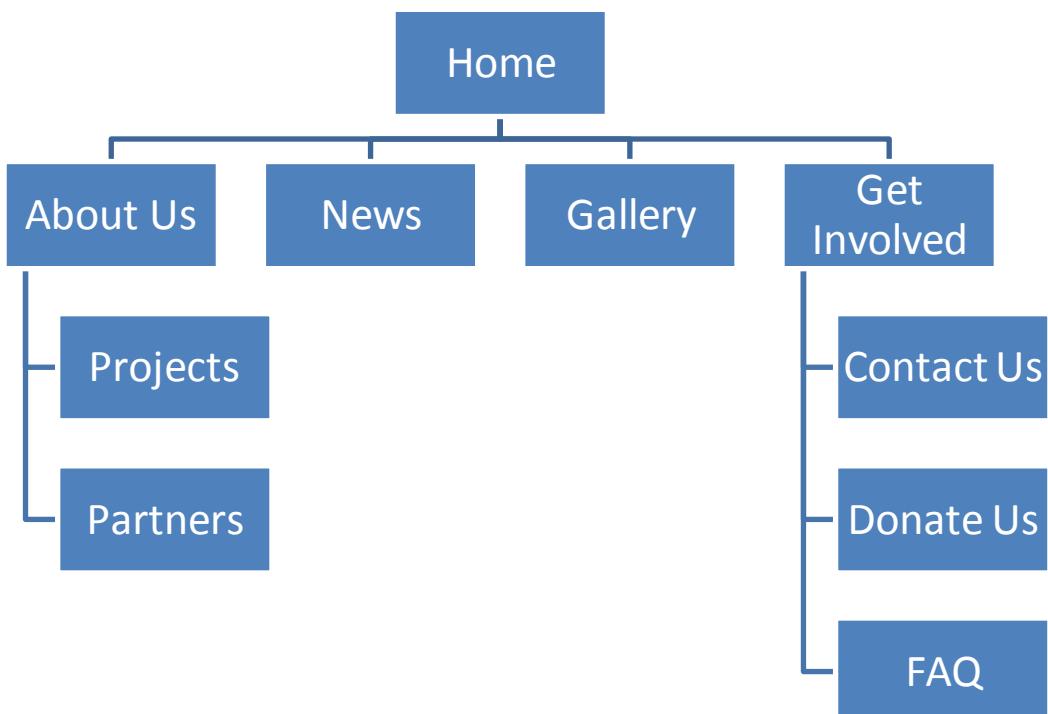
Another effective method to make website more accessible would be proper use of audio or video contents. This step would help user with learning/reading disability to get information from website.



Figure 14 Example for using video content in news section.
(source:<http://www.devsaran.com/sites/default/files/module/youtube-news.png>)

Task 7 (4.4)**Create onscreen help to assist the users.****Hierarchical Website Navigation**

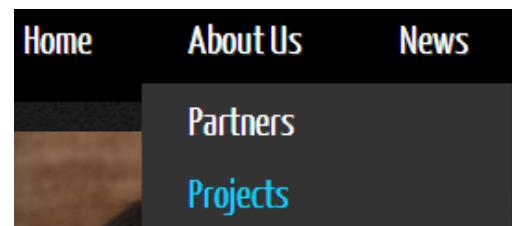
Website navigation is like road map of the website that allows browsing to any main section of the website. Below in image 1, site navigation for website of children's education foundation shown. This image helps user to browse through main sections of the site.

**Image: 1 (Website Navigation)****User Manual Guide**

To utilize different feature of the website follow these steps.

Visit Projects Page

1. Hover mouse over About us in main menu
2. Click on projects

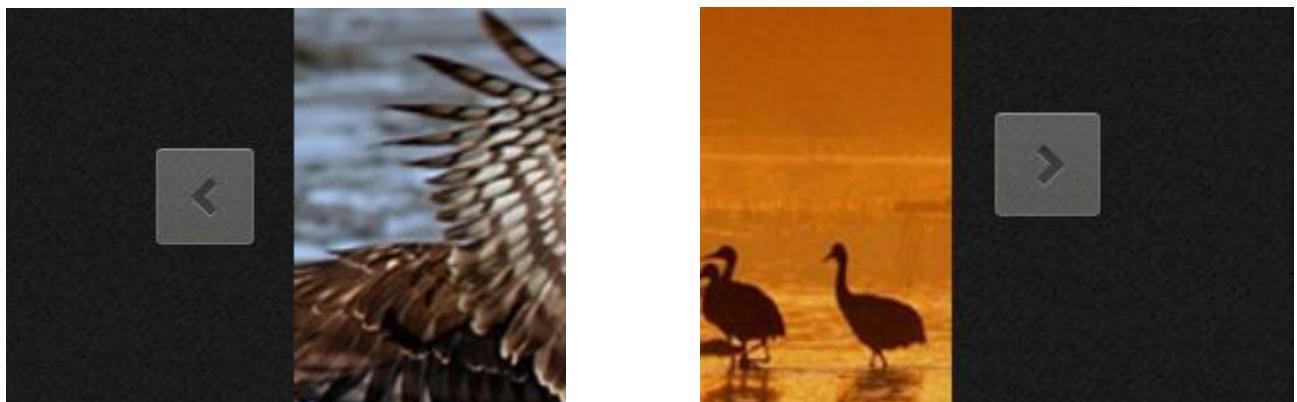


Visit News Page

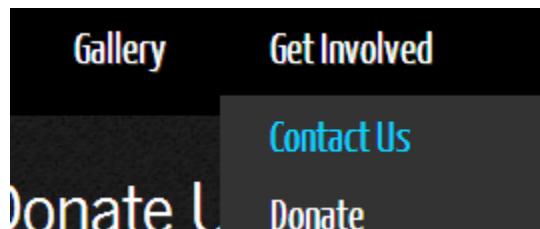
1. Left click on News in the main menu.

Visit Gallery

1. Visit Gallery Page by clicking gallery in main menu.
2. Click on either → or ← sign to scroll through next or previous images.

Contact Us

1. Hover over Get involved menu from main menu.
2. Click on Contact us

Donate us

1. Visit donate us page by Get Involved → Donate us.
2. Fill up the Form.
3. Click on Donate Today Button.

Donate Us

Please Fill up this form for donation proceeding.

First Name	<input type="text" value="First Name"/>
Last Name	<input type="text" value="Last Name"/>
Email Address	<input type="text" value="Your Email"/>
Confirm Email Address	<input type="text" value="Confirm Your Email"/>
Age	<input type="text" value="your age"/>
Gender	<input type="text" value="Female"/>
Nationality	<input type="text" value="Nepal"/>
City	<input type="text" value="your city"/>
Last Name	<input type="text" value="your phone"/>
Message/Suggestion 	
<input type="button" value="Donate Today"/>	

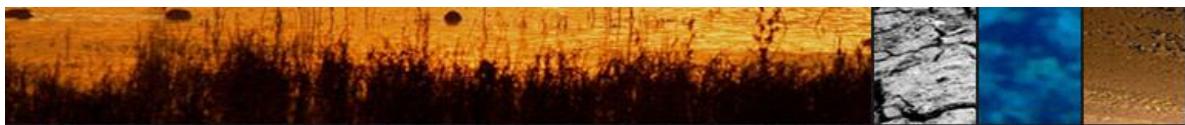
Interactive FAQ Page

This website contains very interactive FAQ (Frequently Asked Questions) page. FAQ page contains frequently submitted queries by users and their answer. To browse through FAQ page follow these steps.

1. Hover over Get involved Menu → Click on FAQ

To see answer of different questions in FAQ simply click on the question. This will reveal the answer of respective question.





Frequently asked questions.

+ What is the meaning of free Education?

- Why Education is necessary?

Education is a thing which can't be taken from any one. An educated person can understand the right ways he can do work and get a opportunity in world. An uneducated can't understand the real aim of life they can't understand how to do work and get a opportunity of respect in era. They can't understand the modern era. They just know that we are a labour and we have to do hard work. But the life is not for labour there are many thing more than labour. But that are just 4 an educated person. Being a student I think every one should have to get education because the education is anything that can't be taken from anyone.

+ How Can I help Children Education Foundation?

FAQ error

Questions:

1. What is the meaning of free Education?
2. Why Education is necessary?
3. How Can I help Children Education Foundation?

Answers: 1. free education refers to education that is funded through taxation, or charitable organizations rather than tuition fees.

2. Education is a thing which can't be taken from any one. An educated person can understand the right ways he can do work and get an opportunity in world. An uneducated can't understand the real aim of life they can't understand how to do work and get an opportunity of respect in era. They can't understand the modern era.

They just know that we are a labor and we have to do hard work. But the life is not for liberty there are many thing more than liberty. But that are just 4 an educated person. Being a student I think everyone should have to get education because the education is anything that can't be taken from anyone.

3. You can always help us by donating us money, books, cloths, foods and providing us

valuable feedbacks and suggestions.

Task 8 (4.5, M3)**Create an onscreen documentation for the support and maintenance of the website.****Support Documentation**

The purpose of this document is to provide onscreen guidance for the support and maintenance of the website. For that, this document provides technical details on designing of website. This document will assist technical person to maintain and update the system. Before applying any changes in website make sure to have an extra backup copy of the entire website.

Design

This website is a static website. Hence only client site scripting is done in webpages. UI design is done with HTML, CSS and jQuery/Java script.

HTML

Website is built on html. Content, forms and different web element such as hyperlinks and image box etc. are designed using html coding. To maintain or upgrade the Webpage follow the steps below.

1. Locate the html file which needed to be upgraded or maintained in root folder.
2. Open the file in notepad/ notepad++ or Dreamweaver.
3. Make the necessary changes in the file.
4. Save the file and verify the changes via web browser. Done

CSS

For designing the layout of webpages, CSS is used in this website. Both internal and external CSS is integrated in the site.

```

@font-face {
    font-family: Yanone Kaffeesatz;
    src: url('../fonts/YanoneKaffeesatz-Regular.eot');
    src: local("Yanone Kaffeesatz"), url(
        '../fonts/YanoneKaffeesatz-Regular.ttf');
}

@font-face {
    font-family: News Cycle;
    src: url('../fonts/NewsCycle-Regular.eot');
    src: local("News Cycle"), url('../fonts/NewsCycle-Regular.ttf');
}

html {
    height: 100%;
}

```

Figure 15CSS code from style.css.

To modify the layout of webpages in CSS file follow these steps.

- Find the style.css file in root→CSS folder
- Open file in notepad/notepad++/Dreamweaver or any other CSS editor
- Make require adjustment in CSS
- Save the file. Verify the changes in webpages. Done.

Java Script (and library jQuery)

Java Script and jQuery libraries are used in this website to enhance user interactivity and user experience. Java script and its libraries add rich UI menus, animations in the webpage.

```

<script type="text/javascript" src="js/jquery.superfish.js"></scri
<script type="text/javascript" src="js/jquery.kwicks-1.5.1.js">
</script>
<script type="text/javascript">
$(document).ready(function() {
    $('#images').kwicks({
        max : 600,
        spacing : 2
    });
    $('ul.sf-menu').superfish();
});
</script>
...

```



Figure 16Integration of Java Script and jQuery in the site to enhance UI and UE

To remove java script/jQuery animation from website or to modify the animations follow these steps below.

To remove animation:

1. Locate the html file from which animation is needed to be removed in root folder.
2. Open file in notepad/notepad++/Dreamweaver or any other HTML editor
3. Remove the java script code for animation
4. Remove the link to jQuery file.
5. Save the file and verify the changes via web browser. Done.

To modify animation:

1. Locate the html file from which animation is needed to be removed.
 2. Open file in notepad/notepad++/Dreamweaver or any other HTML editor
 3. Modify the values in java script to modify the speed, directions of animation.
 4. Save.
- OR
5. For different animation, download jQuery file for animations from web. JQuery files are available (both Free and premium) in sites such as jqueryui.com, jeasyui.com etc.
 6. Link the downloaded file the html file.
 7. Modify the java script code as per sample provided along with jQuery file.
 8. Save the document and verify in web browser. Done.

Choice of tools

During designing this website different tools were used for different purposes. Image editing tools and web designing tools were utilized to make the work better and easier. Two of those tools are listed below.

Photoshop

Photoshop is an image editing software. This software allows enhancing the quality of image, modifying the image, resizing or cropping the image. Photoshop is very important tool while designing a good website. Images needed to be attached in website are enhanced, cropped or modified in different ways before making them available for webpages. Below are some of the key roles of Photoshop in web designing process are listed.

- Images need to be resized or cropped as per UI layout.
- Images need to be enhanced before publishing
- Size of image file can be reduced without affecting the quality of image with help of

Photoshop.

- For image slicing method of web designing Photoshop plays even bigger role where site is first designed in Photoshop and then converted them into HTML file with help of slicing tool.



Figure 17 Editing Image with Photoshop CS5

For image editing other tools can also be used as per availability of the tools. Some of the examples of those tools are: ACDSEE, Corel, online image enhancement tools etc.

Dreamweaver

Dreamweaver is a web designing tool that has different features that makes web designing process easier and less time consuming. Some of the key features of Dreamweaver are listed below:

- Allows to create a website project hence managing the web designing project is much easier
 - Support and allows to create CSS, java script, jQuery files and attach them to HTML file
 - Displays error in java script/jQuery codes
 - Allows multiple ways to design the website such as coding, drag and drop etc.
 - Adding web element in web page is much easier with help of insert menu.
- Etc.

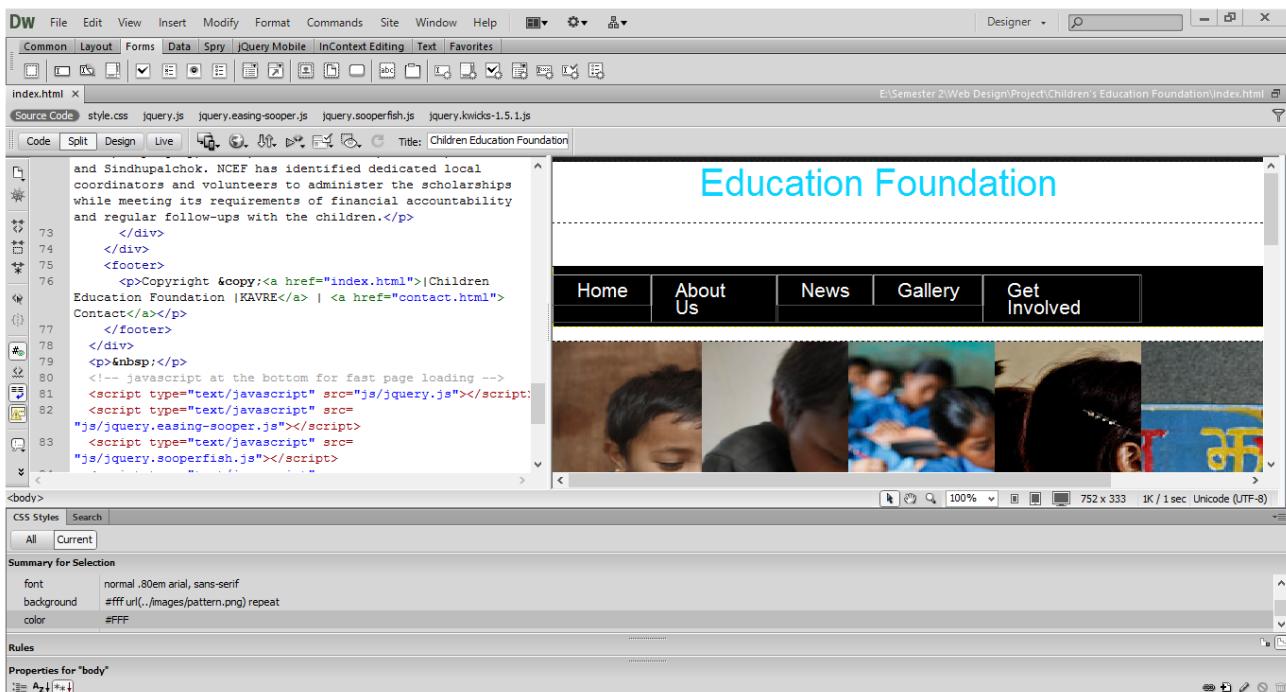


Figure 18 Designing website in Dreamweaver CS6

Task breakdown

Task breakdown in project management is step of decomposing the work into smaller and manageable tasks. This website designing project for children education foundation is also achieved by breaking down the project into smaller phases. To describe these phases Gantt chart for the project is drawn.

A Gantt char is a type of bar chart that demonstrates different phases in the project along with schedule for those tasks. A different row in bar chart describes different tasks and horizontal rectangle bar describes the time scale for that task.

Gantt Char for the designed website is draw below in another page.

Data collection mechanism

Data collection is one of the key purposes of website. This website is designed to collect data from a user who wants to donate the NGO or who wants to provide feedback. Current design of website only consist single data collection mechanism. That mechanism is the use of Forms in webpages.

Form

A form in webpage is element that allows user to enter data and send it to server for processing. Form consists of text boxes, text area, check boxes, radio buttons, file, and reset and submit button. In this website there are two different web pages that contain forms. Form used in donate us page collects data of user that donates to NGO. Meanwhile form in contact us webpage collects data from user who provided feedback to NGO.

Product Deployment

Domain Name

Domain name is unique name that identifies the website. Domain name can be purchased online from various sources. First step of website deployment is to purchase a suitable domain name for the website. For these follow the steps listed below.

1. Visit domain name seller sites such as godaddy.com, register.com or domain.com etc.
2. Check for available domain names that matches the requirement of website.
3. Provide the payment details and finish of the purchase process.

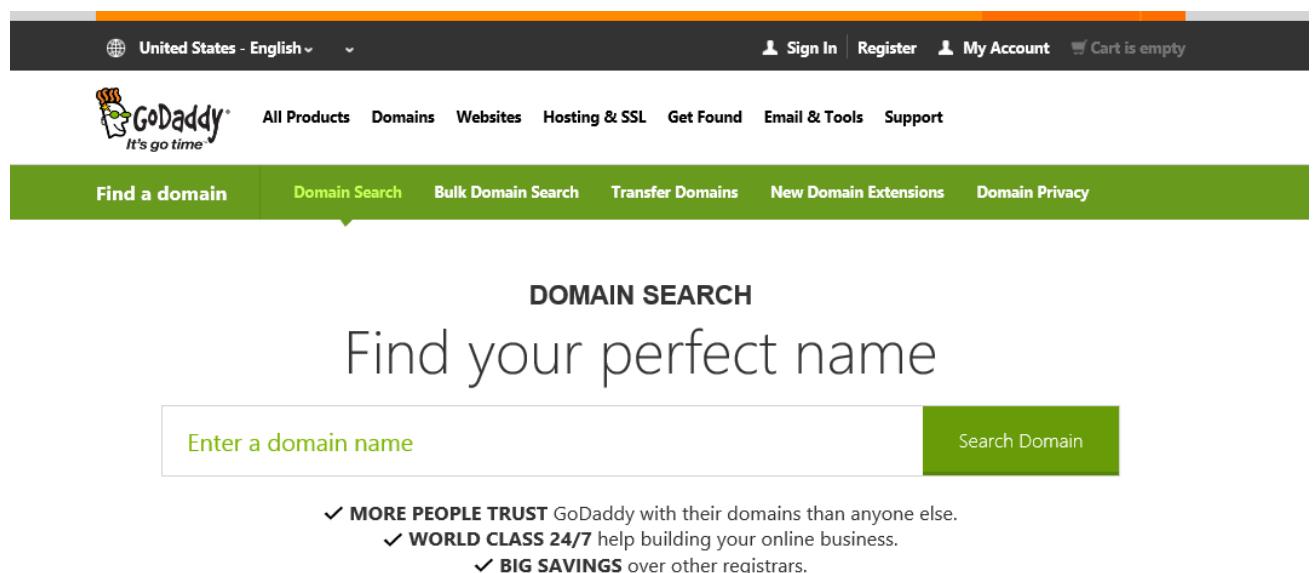


Figure 19 Domain Search Feature of Godaddy.com

Upload tools

For publishing the designed website, it is need to be uploaded in web space. There are various tools that do this work for us. For uploading this site Cute FTP was used. There are other uploading tools available in market such as File thingie, Afian, coffee cup direct FTP etc.

For uploading website using Cute FTP follow these steps listed here:

1. Download trial or paid version of Cute FTP from official site.
2. Start up the cute FTP client.
3. Provide the username and password
4. Brow the website location in left are of cute ftp
5. Drag drop the site into (public folder) right area of application
6. Once uploading starts let the uploading finish.
7. Done.

Cute FTP

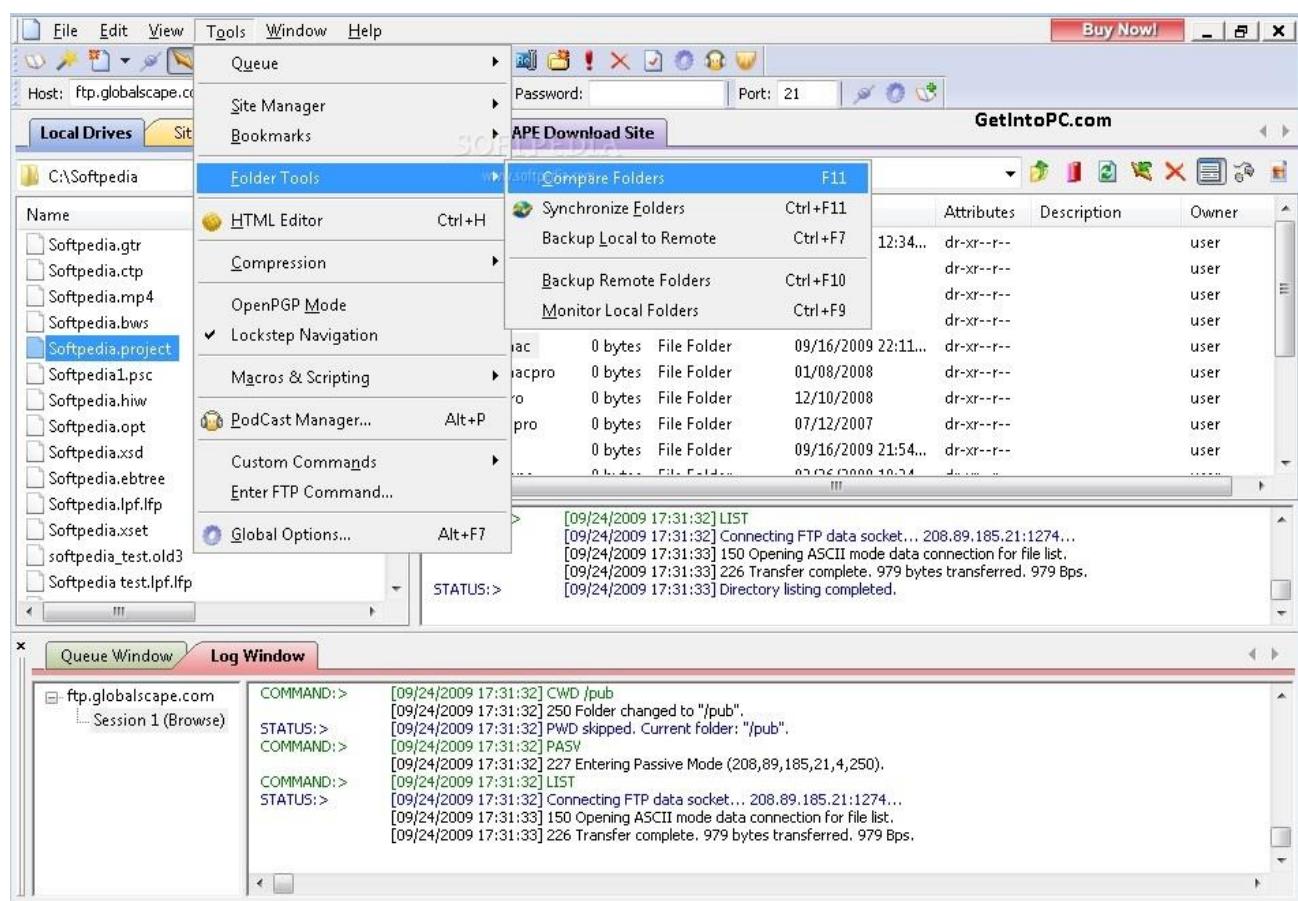


Figure 20 Website Uploading using Cute FTP