

**WEB APPLICATION
DEVELOPMENT
EEI3346
MINI PROJECT**

NAME : M.A.C.A.MADALAGAMA
REGISTER NUMBER : 220269467
SUBMITTED DATE :27/08/2021
CENTER : COLOMBO

1. Front page (with your basic details)

Tec Mentos front page have Navigation bar and home image with three tiles and next we have about us section and teachers section and course section and student review section and last contact us form.

You can easily navigate through other pages using home page

(2,3) Problems ,Sub problems and Constraints and solutions

Problem :- when the web page is free host is stay only 48 hours' and some images etc.. are not uploaded during the free hosting web page.

Solution :- I try to use another free hosting site and I use w3 to free hosting

Problem :- Ignorance of the exact code required to include certain section when creating the web page.

Solution :- I refer some notes , web page templates and use github to find some codes.

Problem :- When creating the web page there was no clear idea of the order in which parts should be included.

Solution :- I refer some good web pages to get an idea.

Problem :- Difficult to add css part to the code according the screen size used by user.

Solution :- Refer some good notes and web site templates

Problem :- Doubt About Clearly defining my goals. In this case to figure it out I have to do web search . then they after I get stuck in new problem

Sub Problem :- Who are your intended users?

What experience do you want to give them?

What are your must-have design features?

What are your technical requirements?

Solution :- Once I read again Instruction PDF and I have defined all of these things, and I start to address them.

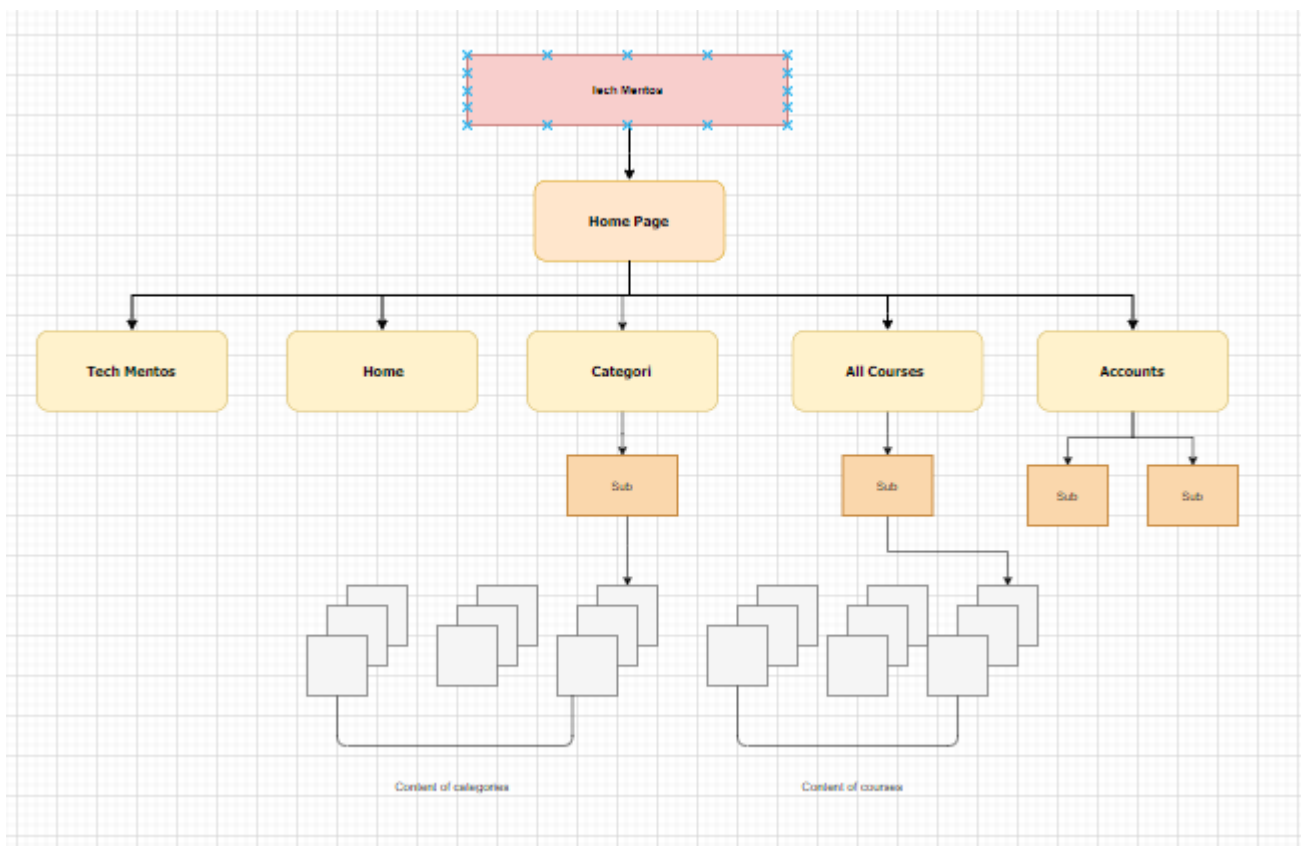
Problem :- How to design UI as simple as Give super easy web surfing experience to student and teachers.

Sub Problem :- How to create clean Navigation?
How to create clean engaging visuals?

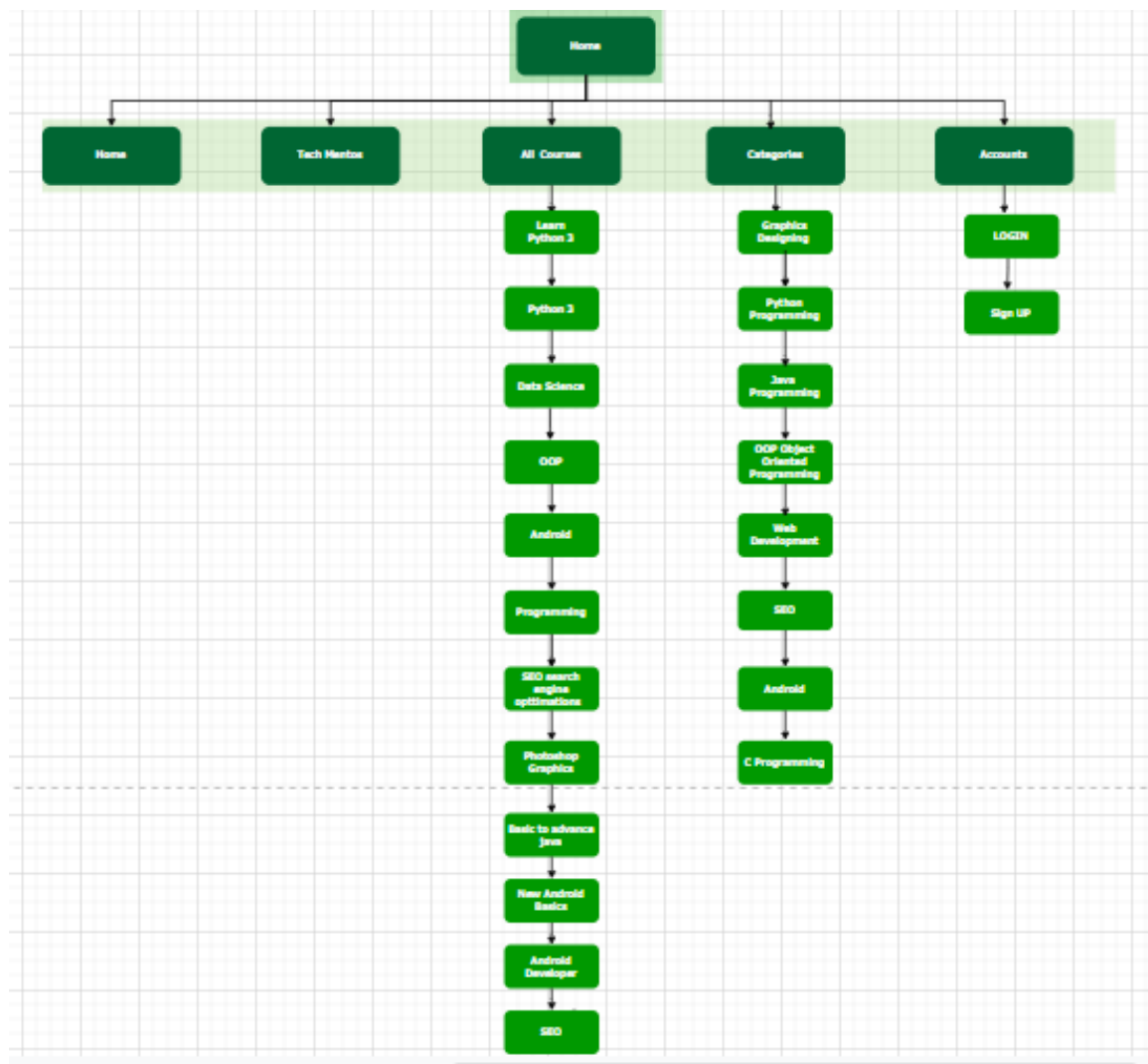
How to create clean and easy to read typography?

Solution :- First I do web search about creating UI design .then they after I design UI for my web page to using adobe xd. As simple as design. With clean navigation . to do this web research helped a lot

4. Architectural diagram of the system



05) Site Map (Tec Mentos)



06) Used web technologies and examples

For Tec Mentos I use Three deferent web technology's

- HTML (Hyper Text Markup Language)
- CSS (Cascading Style Sheets)
- JAVA-SCRIPT

- HTML

```
index.html X
complete website 11 > index.html > ...
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8">
5    <meta name="viewport" content="width=device-width, initial-scale=1.0">
6    <title>Tec Mentos</title>
7
8    <!-- font awesome cdn link -->
9    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.1/css/all.min.css">
10
11    <!-- custom css file link -->
12    <link rel="stylesheet" href="style.css">
13  </head>
14  <body>
15
16
17  <!-- header section starts -->
18  <header>
19
20
21    <a href="index.html" class="logo"><i class="fas fa-graduation-cap"></i> Tec Mentos</a>
22
23    <nav class="navbar">
24      <ul>
25        <li><a href="index.html" class="active">home</a></li>
26        <li><a href="about.html">about Tec Mentos</a></li>
27        <li><a href="courses.html">All Courses</a></li>
28        <li><a href="catagary.html">categories</a></li>
29        <li><a href="accountlogin.html" class="login"><i class="fas fa-sign-in-alt">Account</i></a></li>
30      </ul>
31    </nav>
32
33    <div class="fas fa-bars"></div>
34  </header>
35
36  <!-- header section ends -->
37
38  <!-- home section starts -->
39
40  <section class="home" id="home">
41
42  <div class="content">
43    <h1>Learn and Improve Yourself in less Time </h1>
44    <p>Don't waste your time, check out our productive courses. Our self improvement courses is very effective</p>
45    <a href="about.html"><button>discover more</button></a>
46  </div>
47
48
49
50
```

- CSS

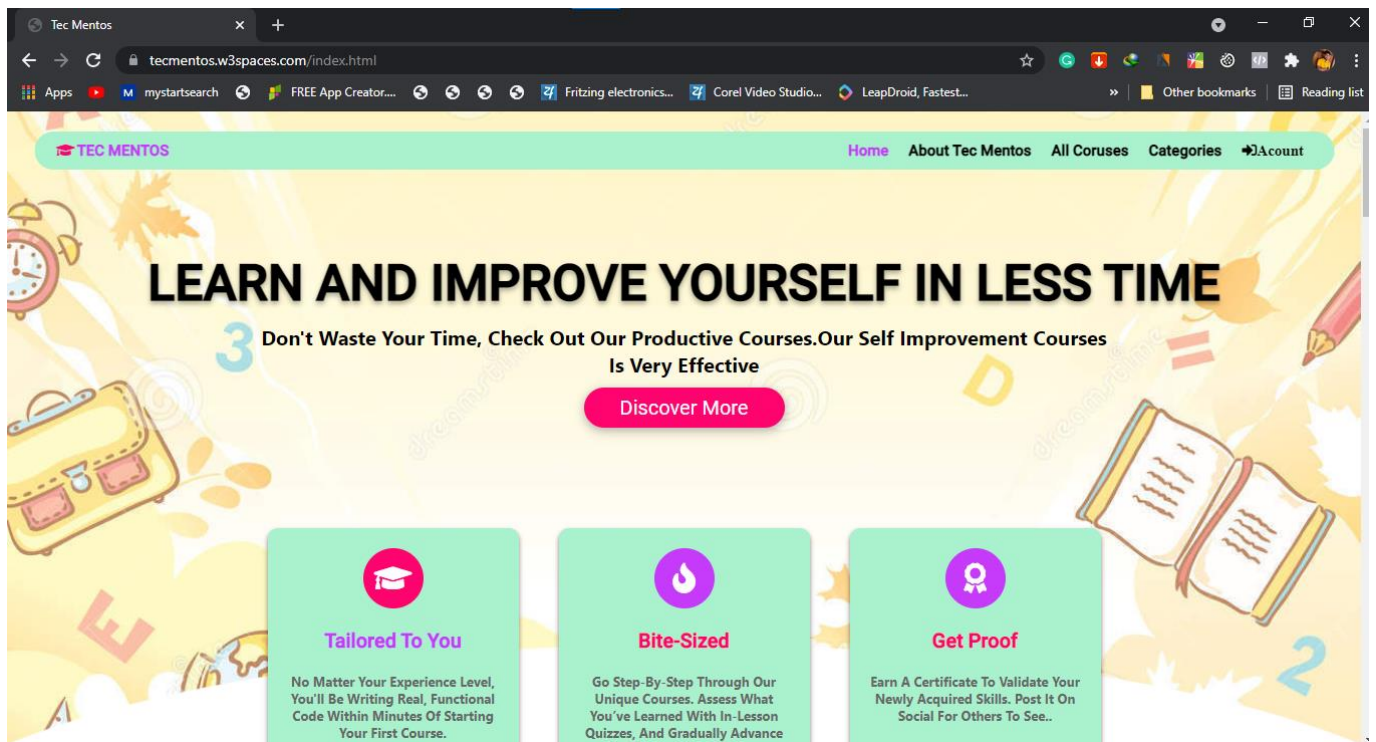
```
# style.css X
complete website 11 > # style.css > ...
1  @import url("https://fonts.googleapis.com/css2?family=Roboto:ital,wght@0,100;0,300;0,400;0,500;1,300;1,400;1,500&display=swap");
2
3  :root{
4    --pink: #FF0066;
5    --violet: #660066;
6    --black: #000000;
7  }
8
9  *{
10   font-family: 'Roboto', sans-serif;
11   text-transform: capitalize;
12   text-decoration: none;
13   outline: none;
14   margin: 0; padding: 0;
15   box-sizing: border-box;
16 }
17
18 ::selection{
19   background: var(--pink);
20   color: #fff;
21 }
22
23 html{
24   font-size: 62.5%;
25   overflow-x: hidden;
26 }
27
28 .heading{
29   font-size: 4rem;
30   color: var(--pink);
31   text-align: center;
32   padding: 0 1rem;
33   padding-top: 6rem;
34   letter-spacing: .2rem;
35   font-weight: 500;
36 }
37
38 .title{
39   padding: 0 1rem;
40   font-size: 2rem;
41   text-align: center;
42   font-weight: 400;
43   color: #aaa;
44 }
45
46 header{
47   width: 96%;
48   background: #17023d;
49   position: fixed;
50   top: 20px; left: 50px;
```

- JAVA-SCRIPT

```
# style.css JS main.js X
complete website 11 > JS main.js > ...
1  $(document).ready(function(){
2
3  $( '.fa-bars' ).click(function(){
4    $(this).toggleClass('fa-times');
5    $( '.navbar' ).toggleClass('nav-toggle');
6  });
7
8  $(window).on('scroll load',function(){
9
10   $( '.fa-bars' ).removeClass('fa-times');
11   $( '.navbar' ).removeClass('nav-toggle');
12
13   if($(window).scrollTop() > 30){
14     $( 'header' ).addClass('header-active');
15   }else{
16     $( 'header' ).removeClass('header-active');
17   }
18
19   $( 'section' ).each(function(){
20     var id = $(this).attr('id');
21     var height = $(this).height();
22     var offset = $(this).offset().top - 200;
23     var top = $(window).scrollTop();
24     if(top >= offset && top < offset + height){
25       $( '.navbar ul li a' ).removeClass('active');
26       $( '.navbar' ).find(' [href="#" + id + "]" ).addClass('active');
27     }
28   });
29
30 });
31
32 });
```

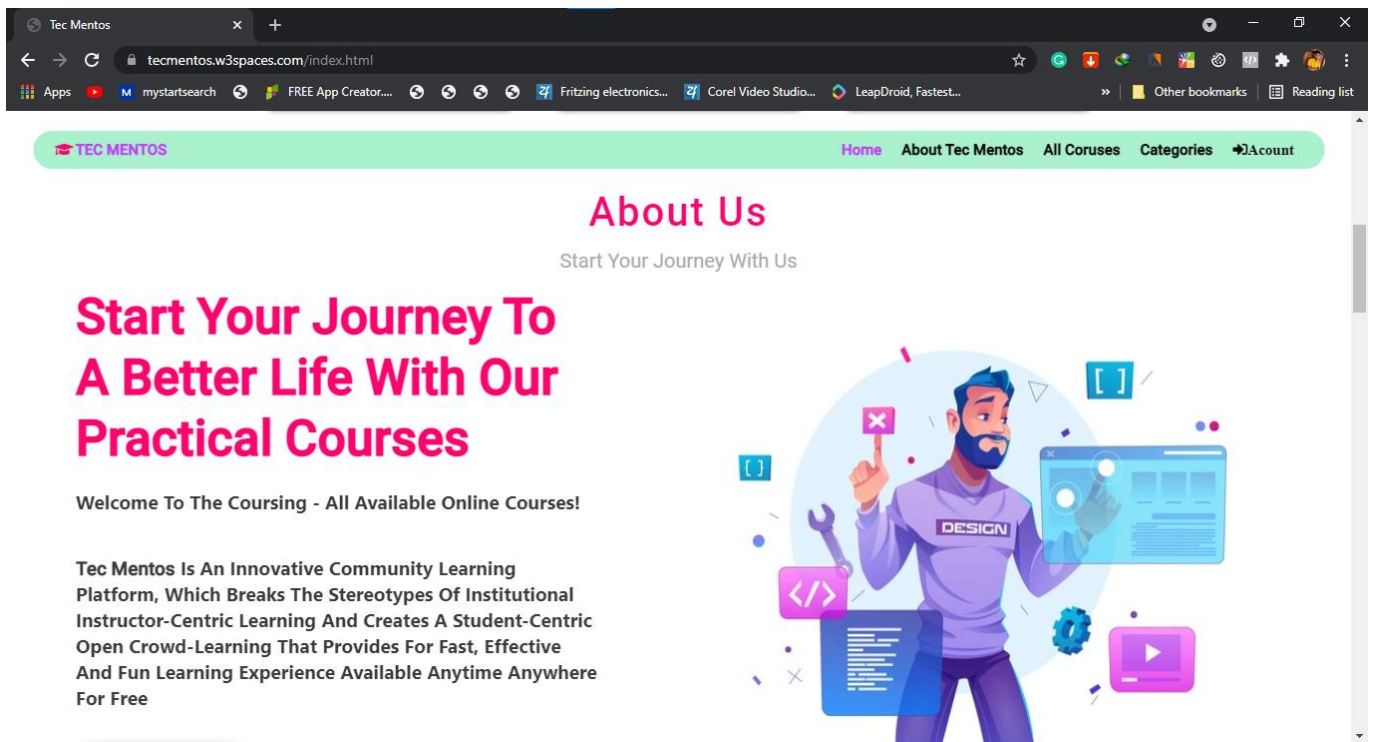
7. Test Results (test cases with screenshots and descriptions)

- Change the color



Description – When user move to the mouse point to Graduation cap or fire logo or certificate logo the logo color change to the pink . also navigation menu buttons(Home , About Tec Mentos ,All courses ,category's, and Account Buttons are change the color to purple . and the pink button on the middle of screen (Discover More) wen user move to the mouse button top of the discover more button it will be zoom.

Still Navigation Bar



Description – When user scroll down to the web page navigation bar all ways still same position . it help to user to save time and easy to navigate through author paggers easily. And about us paragraph have Learn More button .

Tec Mentos Is An Innovative Community Learning Platform, Which Breaks The Stereotypes Of Institutional Instructor-Centric Learning And Creates A Student-Centric Open Crowd-Learning That Provides For Fast, Effective And Fun Learning Experience Available Anytime Anywhere For Free

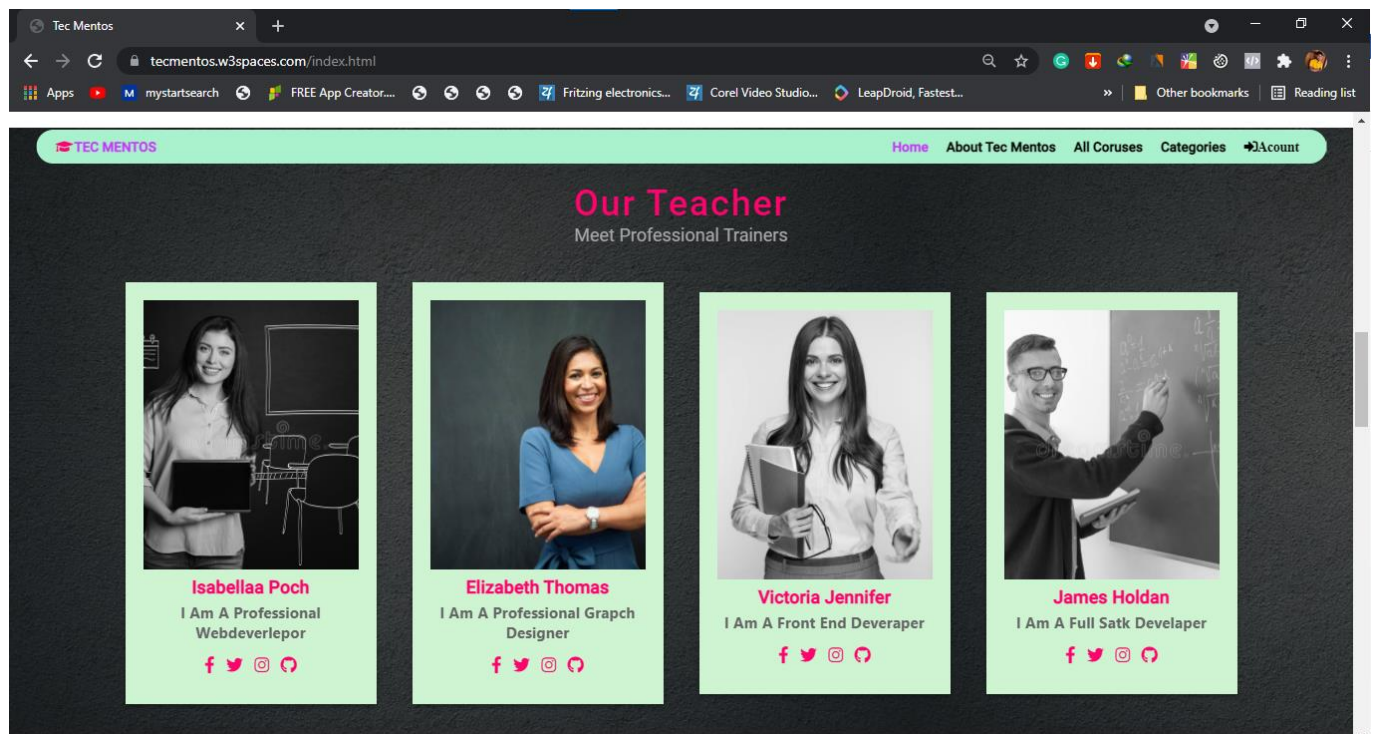
[Learn More](#)

Tec Mentos Is An Innovative Community Learning Platform, Which Breaks The Stereotypes Of Institutional Instructor-Centric Learning And Creates A Student-Centric Open Crowd-Learning That Provides For Fast, Effective And Fun Learning Experience Available Anytime Anywhere For Free

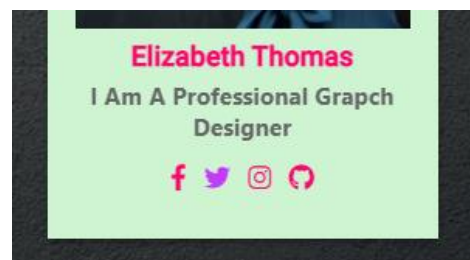
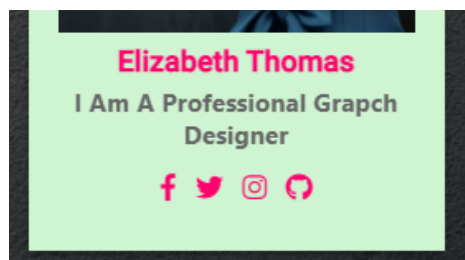
[Learn More](#)

User point the button or move to the mouse point to the button it will be zoom . Cool animation ; -) .

Color changing images

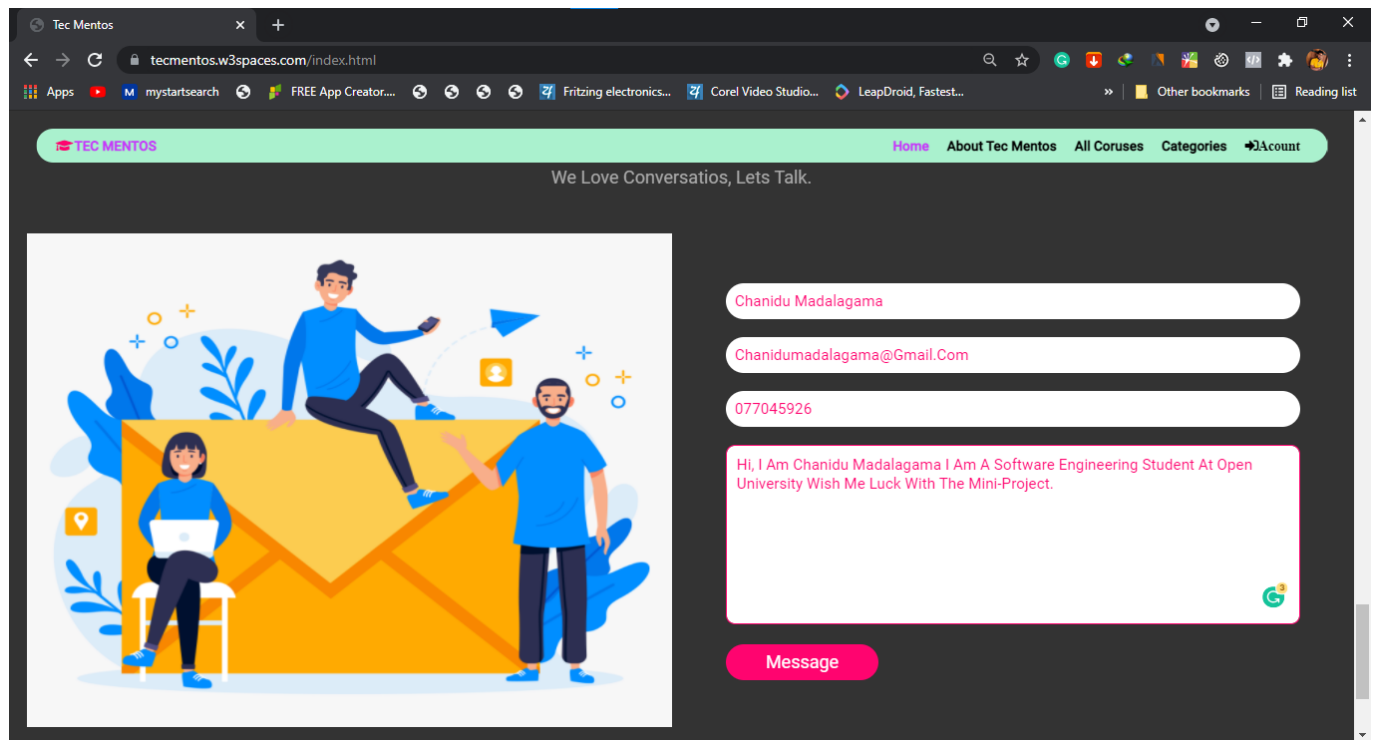


Description – This is a teachers section of Tec Mentos web site. Normally teachers bio photos are black and white. But user move to the mouse point to the teachers photo .photo will be color full . and also teachers Social media handles (Facebook, Twitter, Instagram and Github) those buttons are normally pink

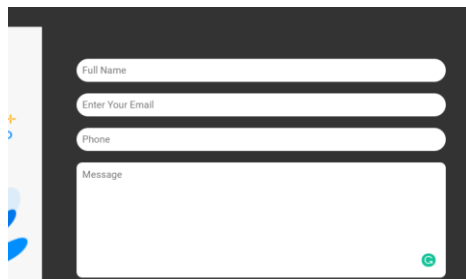


But user move to the mouse point in to social media logo . logo color change to the purple .
An user click to that button navigate to the user to a teachers social media account.

Color changing contact us form



Description – This is the contact us form of Tec Mentos web site and this form will normally have white color
But some one try to fill it filling detail will be shown pink .

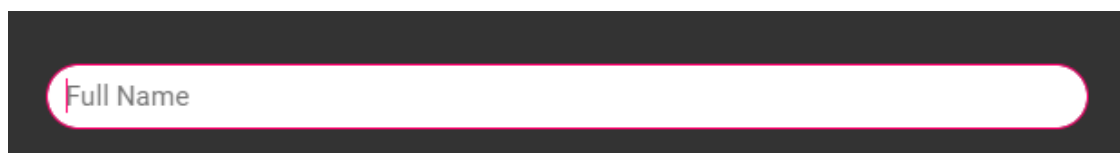


This is the normal mod of contact form.

Also user click the form input box box border change to the pink.

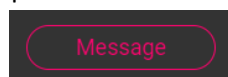


Normal input box view



User click it border will be pink

And message button normally pink color but user move to the mouse point It will be black but border and text will be pink



color changing footer social media handles



Created By [Chanidu Madalagama](#) | All Rights Reserved.

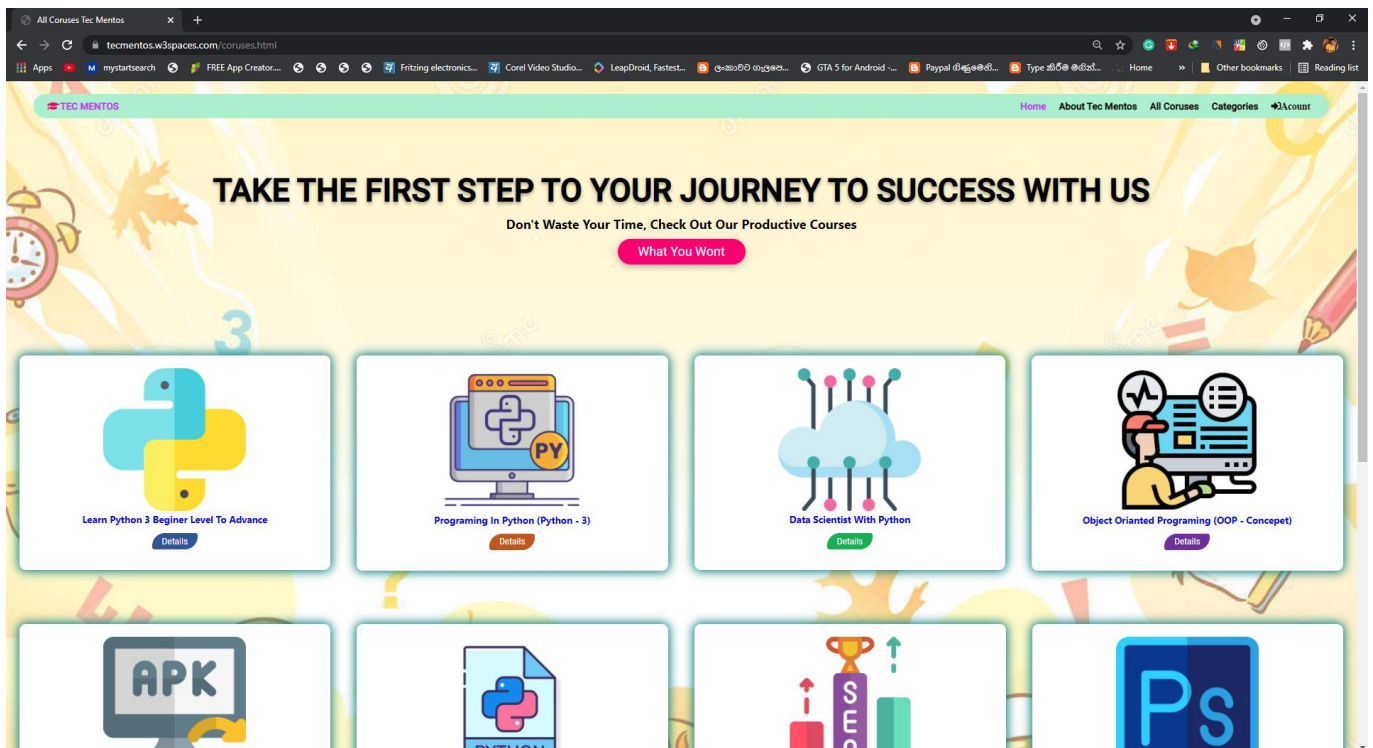
Description – normally footer social media handle button are look like this but user try to click it or user move to the mouse point to the button it change color automatically to pink



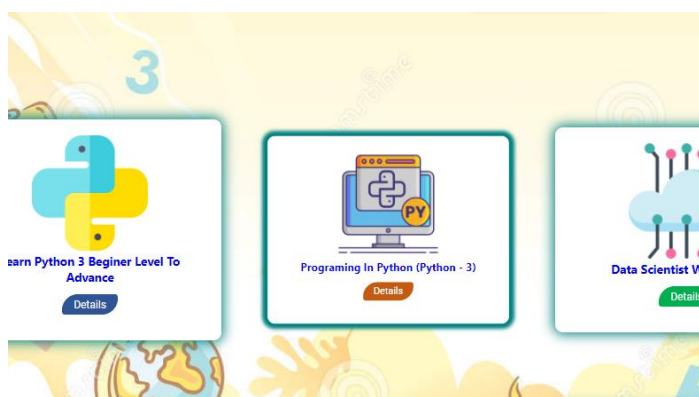
Created By [Chanidu Madalagama](#) | All Rights Reserved.

<https://www.facebook.com>

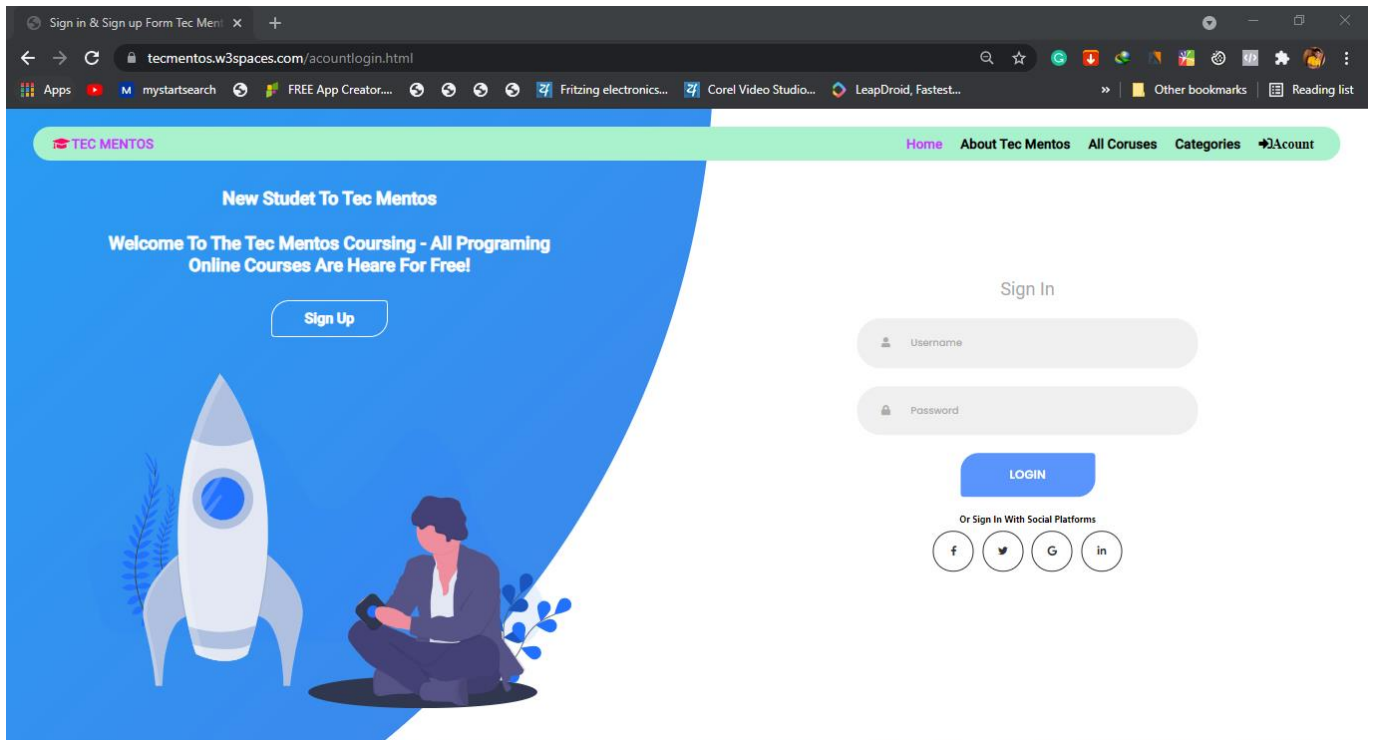
Zoom Out Corse Button



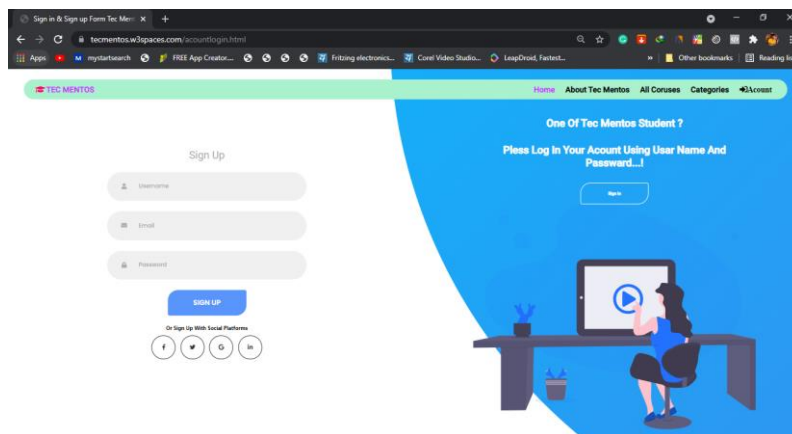
Description – This is the normal view of courses page and courses tiles normally look like but user try to click courses or user try to move mouse point to the courses tile course tile will be zoom out look like this.



Changing Log in page



Description – This is the log in page you can see little sign up button user try to sign up that blue bole role to the next side of a page . and that mane will be despair and women’s vector art will be comes up .by the way the boll rolling animation is so cool.



Also that black social media handle color will be change to the blue user try to click it or user try to move the mouse point to top of the handle

(08) Conclusion

Now I have designed my own web page. Not only I have learned the design aspects of web development, but I have also learned how to program in HTML , CSS and Java script. Through evaluating many different web sites, I'm aware of what is effective and ineffective to viewers when designing a website too. I'm also able to show my creative side, through the layout and design of my project. My knowledge was further enhanced by finding out why the web page was not created as I expected. If I manage the time . if I had managed the time correctly, I would have had the opportunity to add many more things to the site. If I had good basics knowledge about HTML and CSS I could make a professional web page.

Some time I face to lot of difficulty's when I use css and java script because I am ne to those things . then they after I finger it out those problems' via YouTube and github .

This is my web site link:- <https://tecmentos.w3spaces.com/index.html>

My Github profile : - <https://github.com/ChaniduMadalagama>

I hosted from this :- w3schools/space

Thank you