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Chapter 1

Project Description –*Discover your path: Cit Chennai .*

Introduction:

This website is designed to provide information about the college, its courses, location, and other important details. The website will also include a login page for students and faculty members.

Website Features

1. Home page:

The home page of the college website provides an overview of the college's facilities and services to prospective students and visitors.

The facilities section highlights the college's facilities, such as the library, computer labs, sports facilities, cafeteria, and student services. This section includes images and brief descriptions of each facility, highlighting their importance and benefits to students. The last section is the testimonials section that shows two testimonials from students. Each testimonial includes a message, the name of the student, and a rating system that uses fontawesome stars.

The website footer contains links to the college's social media pages, including Instagram, Facebook, and Twitter. These icons are displayed prominently at the bottom of the page, and clicking on them redirects the user to the respective social media page.

Here is a breakdown of the CSS properties used in this code:

1.flex-direction: This property sets the direction of the flexible items within a flex container. In this case, it sets the direction of the input-group class to column, which displays the input fields vertically.

1.background: This property sets the background image or color of an element. In this case, it is used to set a linear gradient as well as an image as the background of the body.

2.border-color: This property sets the color of an element's border. In this case, it sets the border color of an input field to red or green depending on whether there is an error or not.

3.background-color: This property sets the background color of an element. In this case, it sets the background color of the form to whitesmoke.

4.display: This property sets the display behavior of an element. In this case, it sets the display of the input-group class to flex.

5.background-attachment: This property sets whether the background image is fixed or scrolls with the page. In this case, it is set to fixed so that the background image doesn't move as the user scrolls.

2. Login Page:

The website should have a login page for students and faculty members. Users should be able to log in using their username and password.

This page also enables the user to create a new account. The form has five input fields: First Name, Last Name, Email ID, Password, and Confirm Password. The form also has a Register button to submit the form .When the user submit, it automatically redirect into the home page.

It checks for the presence of the required input fields and also ensures that the user provides a valid email address, password with minimum of 8 characters, and that the confirm password matches the password.

The JavaScript code is defined in a separate file named "login.js," which is linked to the HTML document using the script tag in the head section. The script defines a function named "validateInputs()" that is called when the form is submitted. The

function performs some basic validation on the email and password fields to ensure they are not empty. If either of the fields is empty, an error message is displayed below the field using the div element with the class "error."

Obtaining Form and Input Elements:

The code starts by obtaining the form element using document.querySelector('#form') and input elements for firstname, lastname, email, password, and conpass using document.querySelector('#firstname') etc. This is done to get their values and check for errors.

Event Listener for Submit:

The code adds an event listener for the form using form.addEventListener('submit',(e)=>{...}). When the user submits the form, the code calls validateInputs() to check for errors.

Validate Inputs Function:

The validateInputs() function obtains the values of the input elements and checks them against the required fields. It returns a boolean variable that indicates whether all required fields have been filled and are error-free.

Set Error Function:

The setError() function is used to add an error message to an input element. It adds a class 'error' to the input element's parent element and sets the error message text to the 'error' element. It is used by validateInputs() to display error messages.

Set Success Function:

The setSuccess() function is used to remove error messages from an input element. It adds a class 'success' to the input element's parent element, which indicates that the input is valid. It is also used by validateInputs() to remove error messages.

Email Validation:

The validateEmail() function uses a regular expression to check whether the email is in a valid format. It is called by validateInputs() to validate the email input.

Form Submission:

If all the inputs are valid, validateInputs() sets the input elements' class to 'success', and the form is submitted, and the user is alerted that the registration is successful.

3. Courses:

The website provides the information about the courses offered by the college. It includes details such as course and its descriptions.

4. Location:

The website provides information about the location of the college. It includes the address, directions, and a map.

The code includes an embedded Google Maps iframe that displays the location of the campus. The iframe includes the necessary source URL, width, height, and referrer policy attributes.

GitHub URL: https://github.com/sanjaycit/sanjayrepository

Chapter 2

SOURCE CODE

index.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
   <title>Cit chennai</title>
   <link rel="stylesheet" href="style.css">
   <link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link href="https://fonts.googleapis.com/css2?family=Bruno+Ace+SC&display=swap"
rel="stylesheet">

<script src="https://kit.fontawesome.com/c4254e24a8.js"
crossorigin="anonymous"></script>
   <style>
      .footer i{
   transition: transform .2s ease;
      }
   .footer i:hover{
      transform: scale(1.5);}
      </style>
</head>
<body>
   <div class="header">
      <nav>
         <a href="index.html"><img style="width:200px ;border-radius:5px"
src="images/CIT logo.jpg" ></a>
         <div class="nav-links">
            <ul>

               <li><a href="login.html" >Login</a></li>
               <li><a href="courses.html">Courses</a></li>
               <li><a href="#facilities">Facilities</a></li>
               <li><a href="about us.html">About us</a></li>

               <li><a href="address.html">Location</a></li>
            </ul>
         </div>
      </nav>
      <div class="content">
         <h1>Welcome to Chennai CIT -<br>The Best Engineering College in Chennai</h1>
         <br>
         <p>CIT has been approved by the AICTE, New Delhi, affiliated to Anna University
Chennai.</p><br>
```

```html
      <div class="hero-btn"><a  href="about us.html" style="text-decoration:
none;color:white;">visit us to know more</a></div>
      <link rel="stylesheet" href="registerjs.js">
    </div>
  </div>
  <div class="facilities" id="facilities">
    <h1 >Our facilities</h1><br>
    <table >
        <tr >
          <td>
            <div>
              <br>
              <img style="width:50%;border-radius: 10px;" src="/images/library.jpg"
alt="">
              <p style="font-family: 'Courier New', Courier, monospace;font-weight:
bolder;">Library</p>
              <p style="font-family: 'Courier New', Courier, monospace;font-weight:
bolder;">CIT stocks over 7000 books and study materials for the students' benefit.</p>
            </div>
          </td>
          <td>
            <div>
              <img style="width:50%;border-radius: 10px" src="/images/sports.jpg"
alt="">
              <p style="font-family: 'Courier New', Courier, monospace;font-weight:
bolder;">Sports</p>
              <p style="font-family: 'Courier New', Courier, monospace;font-weight:
bolder;">cit provides opportunities for students to participate in sports and games.</p>
            </div>

          </td>
          <td>
            <div>
              <img  style="width:50%;border-radius: 10px" src="/images/lab.jpg" alt="">
              <p style="font-family: 'Courier New', Courier, monospace;font-weight:
bolder;">Centres of Excellence</p>
              <p style="font-family: 'Courier New', Courier, monospace;font-weight:
bolder;">A place to excel in technical field</p>
          </td>
            </div>

      </div>
    </table>
  </div>
  <div  class="testimonials">
    <h1>What our students says</h1>
    <br>
    <div class="testimonials-row">
      <div class="testimonials-col"  >
        <div >
```

```html
        <p><br>Joining CIT is one of the best decisions I've made. Not only did we get
to learn from some of the sharpest minds in the field of technology, we were encouraged to
wander into new areas of knowledge, irrespective of our branches of specialization.</p>
        <h3>Ranjith</h3>
        <i class="fa-solid fa-star"></i>
        <i class="fa-solid fa-star"></i>
        <i class="fa-solid fa-star"></i>
        <i class="fa-solid fa-star"></i>
        <i class="fa-regular fa-star"></i>
      </div>
    <div>
  <div class="testimonials-row" ></div>
    <div class="testimonials-col"  >
      <div >
        <p>When I was about to choose my career, I found an unique learning culture in
CIT. Itâ€™s Innivative Learning Program is really amazing that I can choose my style of
learning technologies at par with global trend. Now I am one of the top coder & taking part in
all Gobal Coding competitions.</p>
        <h3>Suriya</h3>
        <i class="fa-solid fa-star"></i>
        <i class="fa-solid fa-star"></i>
        <i class="fa-solid fa-star"></i>
        <i class="fa-solid fa-star"></i>
        <i class="fa-solid fa-star-half-stroke"></i>
      </div>
    </div>
  </div>
</div>
<div class="footer" style="background-color: black; padding:5% 20% 5% 25%;">
  <h1 style="color:white;text-align: center;padding-bottom: 20px;">Connect with
us:</h1>
  <a href="https://www.instagram.com/citchennai_engineering/" style="text-decoration:
none;"><i class="fa-brands fa-instagram fa-2xl" ></i></a>
  <a href="https://www.youtube.com/user/CITSenthilAdmin/videos" style="text-
decoration: none;"> <i class="fa-brands fa-youtube fa-2xl" style="margin-
left:50px;"></i></i></a>
  <a href="https://twitter.com/citchennai" style="text-decoration: none;"><i class="fa-
brands fa-square-twitter fa-2xl" style="margin-left:50px;"></i></a>
  <a href="" style="text-decoration: none;"><i class="fa-brands fa-linkedin fa-2xl"
style="margin-left:50px;"></i></a>
  <a href="https://www.facebook.com/chennaiinstituteoftechnology" style="text-
decoration: none;"><i class="fa-brands fa-facebook fa-2xl" style="margin-
left:50px;"></i></a>
</div>
</body>
</html>
```

Style.css:

```css
*{
   margin:0;
   padding:0;}
.header{
   min-height:100vh;
   width:100%;
   background-image:linear-gradient(rgba(4,9,30,0.7),rgba(4,9,30,0.7)),url(images/CIT-
Chennai.jpg);
   background-size: cover;
   position:relative;}
nav{
   display:flex;
   padding:2% 6%;
   justify-content:space-between;
   align-items:center:}
.nav-links{
   flex:1;
   text-align:right;}
.nav-links ul li{
   list-style:none;
   display:inline-block;
   padding:8px 15px;}
.nav-links ul li a{
   text-decoration:none;
   color:white;}
.nav-links ul li a:hover{
   background-color:rgb(10, 164, 51);
   padding:10px;
   transition:0.5s;
   border-radius:10px ;}
.nav-links ul li{
   font-family: 'Bruno Ace SC', cursive;}
.content{
   width:90%;
   color:white;
   position:absolute;
   top:50%;
   text-align:center;}
.content:hover{transition:5s;}
.content h1{font-size:25px;
   font-family: 'Bruno Ace SC', cursive;}
.content{padding-bottom:20px;}
.content p{
   font-size:15px;}
.hero-btn{border:1px solid white;
   display:inline;
   padding:12px 34px;
   font-size:;
   background:transparent;
```

```css
    cursor:pointer;
    color:white;
    text-decoration :none;
    border-radius: 10px;}
.hero-btn:hover{transform: scale(1.5);
    background-color:rgb(10, 164, 51);
    transition: transform .2s ease;  }
.facilities{margin:auto;
    text-align:center;
    padding-top:80px;}
.facilities div{
    transition: transform .2s ease;}
.facilities div:hover{
    transform: scale(1.1);}
.facilities {font-family: 'Bruno Ace SC', cursive;}
.testimonials{
    width:80%;
    margin:auto;
    padding-top:100px;
    text-align:center;}
.col h2 p{ -basis:445;
    border-radius:10px;
    margin-bottom:5%;
    text-align:left;
    background-color:#fff3f3;
    padding:25px;
    display:flex;}
.testimonials{width:80%;
    margin:auto;
    padding-top:100px;
    text-align:center;}
.testimonials-col{
    flex-basis:44%;
    border-radius:10px;
    margin-bottom:5%;
    text-align:left;
    background: #fff3f3;
    padding:25px;
    cursor:pointer;
    display:flex;}
.testimonials-col h3{
    padding-top:10px;}
.footer{ background-color:black;
    color:white;}
```

Register.html:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link
href="https://fonts.googleapis.com/css2?family=Indie+Flower&family=Pacifico&display=sw
ap" rel="stylesheet">
    <script src="register.js" defer></script>
    <title>Registration</title>

    <link rel="stylesheet" href="loginform.css">
    <link
href="https://fonts.googleapis.com/css2?family=Indie+Flower&family=Pacifico&display=sw
ap" rel="stylesheet">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.4.0/css/all.min.css">

</head>
<body>
    <form id="form" onsubmit=" validateInputs()" action="index.html">
        <h1 style="font-family: 'Bruno Ace SC', cursive;">Registration</h1>

        <div class="input-group">
        <label for="firstname">First Name  :</label>
        <input type="text" id="firstname" name="firstname" >
        <div class="error"></div>
        </div>

        <div class="input-group">
        <label for="lastname">Last Name   :</label>
        <input type="text" id="lastname" name="lastname">
        <div class="error"></div>
        </div>
<div class="input-group">
        <label for="email">E-Mail Id   :</label>
        <input type="text" id="email" name="email">
        <div class="error"></div></div>
        <div class="input-group">
        <label for="pass">Password   :</label>
        <input type="password" id="password" name="pass">
        <div class="error"></div></div>
<div class="input-group">
        <label for="conpass">Confirm Password:</label>
        <input type="password" id="conpass" name="conpass">
        <div class="error"></div><br></div>
    <button type="submit">Register</button><p></p></body>
```

register.js:

```javascript
const form = document.querySelector('#form')
const firstname = document.querySelector('#firstname');
const lastname = document.querySelector('#lastname');
const email = document.querySelector('#email');
const password = document.querySelector('#password');
const conpass= document.querySelector('#conpass');

form.addEventListener('submit',(e)=>{
    if(!validateInputs()){
        e.preventDefault();
    }
})

function validateInputs(){
    const firstnameVal = firstname.value.trim()
    const lastnameVal = lastname.value.trim()
    const emailVal = email.value.trim();
    const passwordVal = password.value.trim();
    const conpassVal = conpass.value.trim();
    let success = true

    if(firstnameVal===''){
        success=false;
        setError(firstname,'firstname is required')
    }
    else{
        setSuccess(firstname)
}
    if(lastnameVal===''){
        success=false;
        setError(lastname,'lastname is required')
    }
    else{
        setSuccess(lastname)
}
    if(emailVal===''){
        success = false;
        setError(email,'Email is required')
    }
    else if(!validateEmail(emailVal)){
        success = false;
        setError(email,'Please enter a valid email')
    }
    else{
        setSuccess(email)
}
    if(passwordVal === ''){
        success= false;
```

```
        setError(password,'Password is required')
    }
    else if(passwordVal.length<8){
        success = false;
        setError(password,'Password must be atleast 8 characters long')
    }
    else{
        setSuccess(password)
}
    if(conpassVal === ''){
        success = false;
        setError(conpass,'Confirm password is required')
    }
    else if(conpassVal!==passwordVal){
        success = false;
        setError(conpass,'Password does not match')
    }
    else{
        setSuccess(conpass);
        alert("Registered successfull")
}
    return success;
}

function setError(element,message){
    const inputGroup = element.parentElement;
    const errorElement = inputGroup.querySelector('.error')
    errorElement.innerText = message;
    inputGroup.classList.add('error')
    inputGroup.classList.remove('success')
}

function setSuccess(element){
    const inputGroup = element.parentElement;
    const errorElement = inputGroup.querySelector('.error')
    errorElement.innerText = '';
    inputGroup.classList.add('success')
    inputGroup.classList.remove('error')
}
const validateEmail = (email) => {
    return String(email)
     .toLowerCase()
     .match(
     /^(([^<>()[\]\\.,;:\s@"]+(\.[^<>()[\]\\.,;:\s@"]+)*)|(".+"))@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-
9]{1,3}\.[0-9]{1,3}\])|(([a-zA-Z\-0-9]+\.)+[a-zA-Z]{2,}))$/
     );
  };
```

Login.js

```javascript
const form = document.querySelector('#form')
const firstname = document.querySelector('#firstname');
const lastname = document.querySelector('#lastname');
const email = document.querySelector('#email');
const password = document.querySelector('#password');
const conpass= document.querySelector('#conpass');
form.addEventListener('submit',(e)=>{
  if(!validateInputs()){e.preventDefault();}})
function validateInputs(){
  const emailVal = email.value.trim();
  const passwordVal = password.value.trim();    let success = true;
  if(emailVal===''){
    success = false;        setError(email,'Email is required')}
  else if(!validateEmail(emailVal)){
    success = false;
    setError(email,'Please enter a valid email')}
  else{      setSuccess(email)}
  if(passwordVal === ''){ success= false;
    setError(password,'Password is required'}
  else if(passwordVal.length<8){
    success = false;
    setError(password,'Password must be atleast 8 characters long')}
  else{
    setSuccess(password);
    alert("Logined successfull")}    return success;}
function setError(element,message){
  const inputGroup = element.parentElement;
  const errorElement = inputGroup.querySelector('.error')
  errorElement.innerText = message;
  inputGroup.classList.add('error')
  inputGroup.classList.remove('success')}
function setSuccess(element){
  const inputGroup = element.parentElement;
  const errorElement = inputGroup.querySelector('.error')
  errorElement.innerText = '';
  inputGroup.classList.add('success')
  inputGroup.classList.remove('error')
}
const validateEmail = (email) => {return String(email
.toLowerCase().match(
    /^(([^<>()[\]\\.,;:\s@"]+(\.[^<>()[\]\\.,;:\s@"]+)*)|(".+"))@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-
9]{1,3}\.[0-9]{1,3}\])|(([a-zA-Z\-0-9]+\.)+[a-zA-Z]{2,}))$/
    );
  };
```

Login.css:

```css
</html>
body{
    background:linear-gradient(rgba(4,9,30,0.7),rgba(4,9,30,0.7)),url(/images/login.jpg);
    margin:0;
    background-attachment: fixed;
}
#form{
    width:400px;
    margin:20vh auto auto auto;
    background-color:whitesmoke;
    border-radius:5px;
    padding:30px;
}
h1{
    text-align:center;
}
#form button {
    background-color:rgb(10, 164, 51);
    color:white;
    border:1px solid white;
    border-radius:5px;
    padding:10px;
    margin:10px;
    width:100%;
}
.input-group{
    display:flex;
    flex-direction:column;
    padding:10zpx;
}
.input-group input{
    border-radius:5px;
    font-size:20px;
    margin-top:10px;
}
.error{
    color:red;
    padding-top:5px;
}
.input-group.success input{
    border-color:green;
}
.input-group.error input{
    border-color:red;
}
```

Courses.css

```css
.header h1{
   font-family: 'Bruno Ace SC', cursive;
   display:flex;
   justify-content: center;
   color:white;
   padding-bottom: 35px;;
}
.header{
   padding:3% 25% 5% 25%;
   width:50%;
   background-image:linear-
gradient(rgba(4,9,30,0.7),rgba(4,9,30,0.7)),url(images/courses.jpeg);
   background-size: cover;
   position:relative;
}
.content{
   display:grid;
   grid-template-columns:auto auto auto;
   padding-top:10px;
}
.content div{
   padding:20px;
   background-color:rgba(4,9,30,0.7);
   color:white;
   border-radius:10px;
   border:5px solid white;
}
.content div h4{
   text-align: center;
}
.content div{
   transition: transform .2s ease;
}
.content div:hover{
   background-color:rgba(10,10,10);
   transform: scale(1.05);
}
.content div{
   transition: transform .2s ease;
}
.header h1{
   transition: transform .2s ease;
}
.header h1:hover{
   transform: scale(1.5);
}
```

address.html:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>\
    <link href="https://fonts.googleapis.com/css2?family=Bruno+Ace+SC&display=swap"
rel="stylesheet">
    <!--<link rel="preconnect" href="https://fonts.googleapis.com">-->
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <style>
        .location h1{
            text-align:center;
            color:white;
            font-family:'Bruno Ace SC' ;
        }
        .location h1{
            transition: transform .2s ease;
        }
        .location h1:hover{

            transform: scale(1.2);
        }

        .location{
            padding:3% 25% 5% 25%;
            width:50;
            background-image:linear-
gradient(rgba(4,9,30,0.7),rgba(4,9,30,0.7)),url(/images/location2.jpeg);
        }
        .location img{
            margin-top:0%;
        }
        iframe{
            padding-left: 25%;
        }
        body{
            background-image:linear-gradient(rgba(4,9,30,0.7),rgba(4,9,30,0.7)) ;
        }
    </style>
</head>
<body >
    <div class="location">
        <h1 style="padding-top: 50px;color:white;padding-top:10px">Where our campus is
located</h1>
    </div>
```

```html
    <h1 style="font-family: 'Vina Sans', cursive;color:white;">Campus office</h1>
    <p style="color:white">Sarathy Nagar, Kundrathur,<br>
      Chennai-600069, TamilNadu, India.<br>Phone: +91 44 7111 9111<br>Email :
info@citchennai.net</p>
    <h1 style="color:white;font-family: 'Vina Sans', cursive;;">Map view</h1>
    <iframe
src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d124415.73600870783!
2d79.90047454833984!3d12.972379280472683!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13.1!
3m3!1m2!1s0x3a52f4d07355bab5%3A0xbb6063169c4ed4d9!2sChennai%20Institute%20of
%20Technology!5e0!3m2!1sen!2sin!4v1683113808768!5m2!1sen!2sin" width="500"
height="450" style="border:0;" allowfullscreen="" loading="lazy" referrerpolicy="no-
referrer-when-downgrade"></iframe>
    <p></p>


<script src="https://kit.fontawesome.com/c4254e24a8.js"
crossorigin="anonymous"></script>

</body>
</html>
```

Chapter 3

SCREENSHOTS

a)Home page for the college website:
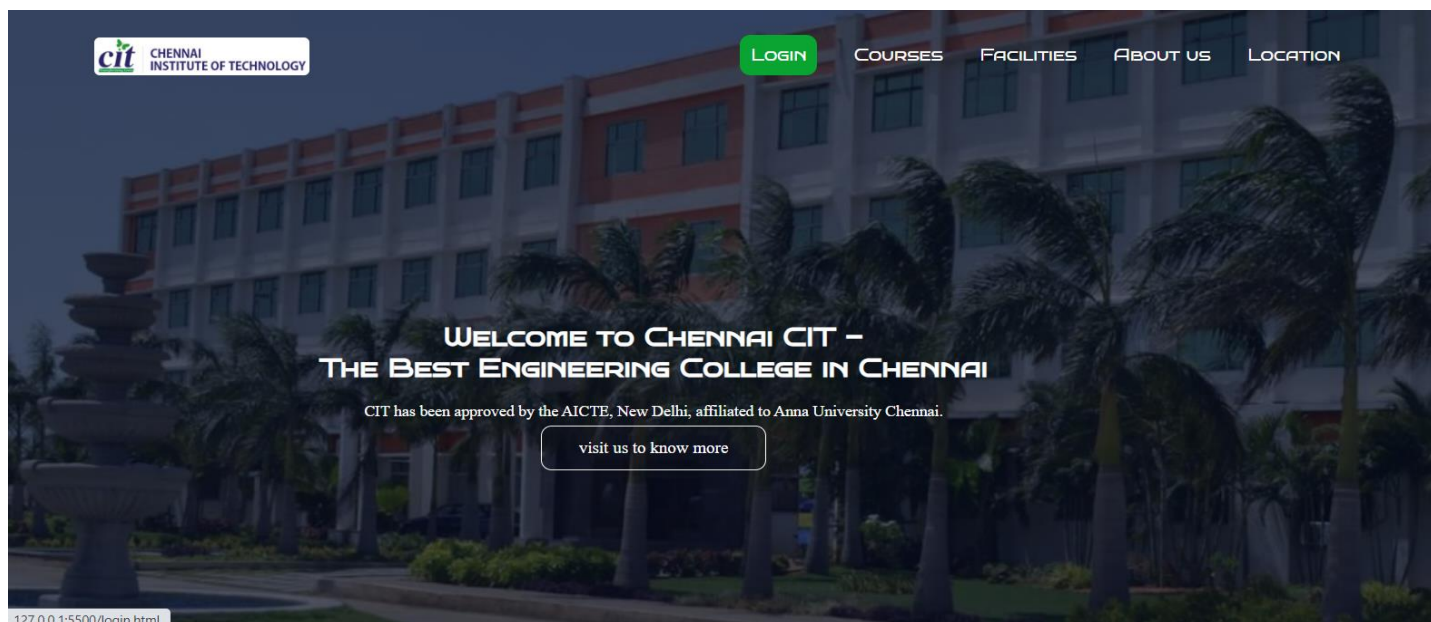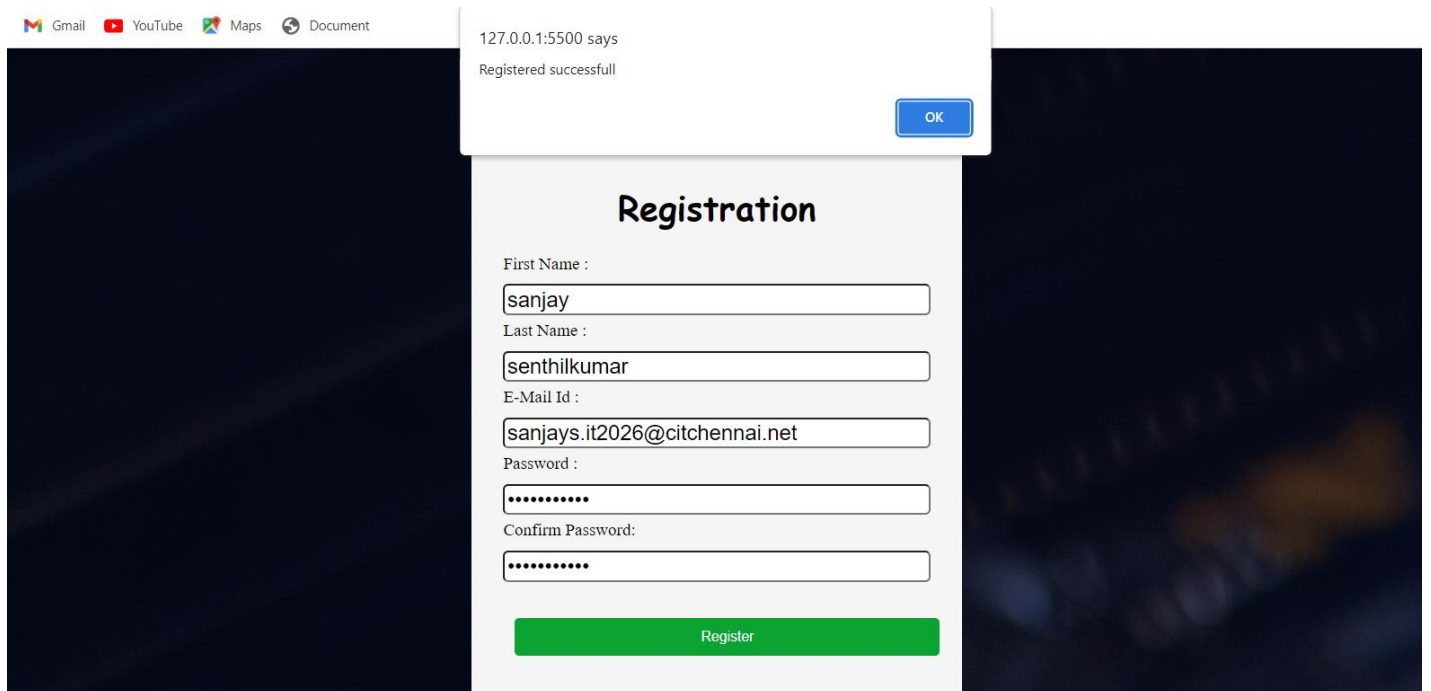

(fig. 3.1)

b)Our facilities page:

(fig. 3.2)

c)Login page:
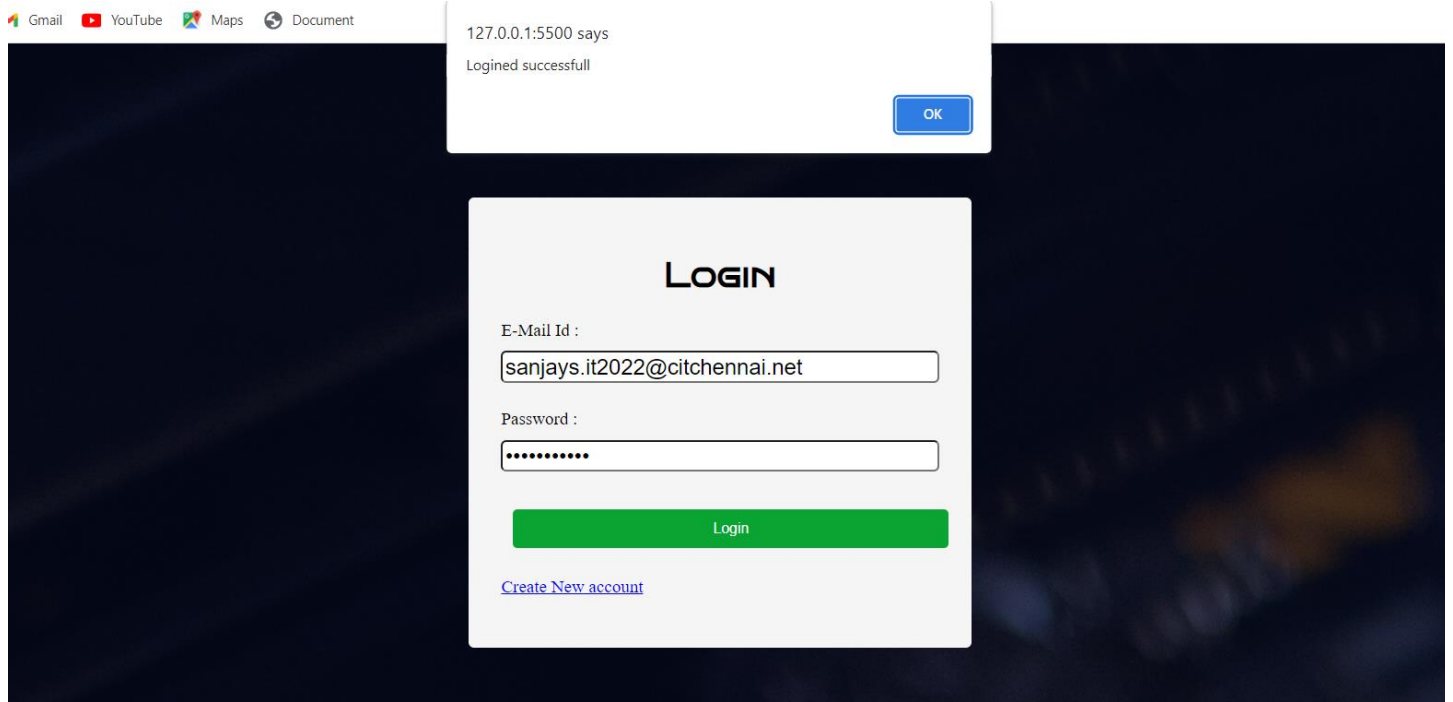
(fig. 3.3)

d)Register page:

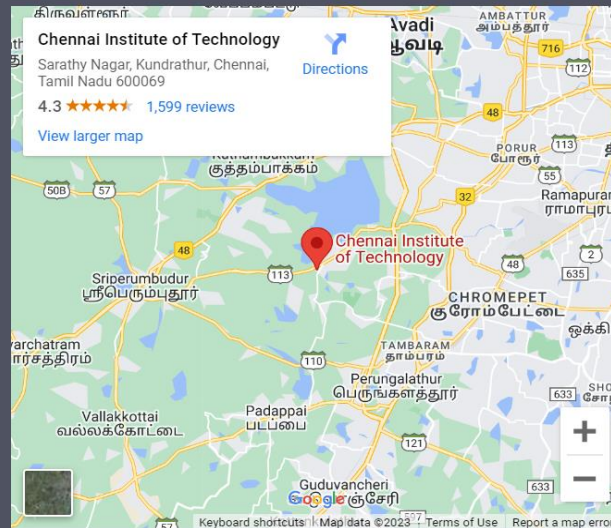
(

(fig. 3.4)

d)Location page:

(fig. 3.5)

e)Courses page:

Courses we offer

Mechanical Engineering

This programme is concerned with the principles of force, energy and motion; this program encompasses the elements of aerospace, electrical, civil, chemical and even material science and bio-engineering along with physics and mathematics.

Computer science and engineering

Computer Science and Engineering (CSE) is one of the popular courses among engineering aspirants which mainly focuses on computation, analysis of algorithms, programming languages, program design, software engineering, computer hardware, computer networks and problem solving skills.

Electronics and Communication Engineering

These programmes prepare students for careers as systems engineers, research engineers, controls engineers, communication engineers and electronic engineers, as well as researchers and academicians.

Information Technology

Information Technology (IT) is one of the popular courses among engineeringaspirants which mainly focuses on

Artificial Intelligence and Data Sciences

Artificial Intelligence and Data Sciences (AI & DS) is one of the popular courses among engineering aspirants

Mechatronics

Mechatronics Engineering, developed in direct response to the contemporary industrial demand for engineers with multi-

(fig. 3.6)