

## **Experiment -2: Designing of a Registration Form using**

**HTML5 1. Aim:** To design a registration form using HTML5

**2. Objective:** To explore use of HTML-5 and CSS for web designing.

**3. Lab outcome:** Students will be able implement the basic concepts of HTML5 including –

- Use of various Attributes and Formatting tags
- Blocks
- Frames
- Forms

**4. Prerequisite:** HTML5

**5. Requirements:** The following are the requirements –

- PC/Laptop
- Visual Studio Code/ notepad
- Browser

### **6. Pre-Experiment Theory:**

#### *HTML Block Elements*

Every HTML element has a default display value, depending on what type of element it is. Block-level element always starts on a new line. It always takes up the full width available (stretches out to the left and right as far as it can). A block level element has a top and a bottom margin.

The `<div>` element is a block-level element. It is often used as a container for other HTML elements.

```
<div style="background-color:black;color:white;padding:20px;">
```

```
<h2>London</h2>
```

```
<p>St. Francis Institute of Technology (SFIT) was established in 1999 with a view to  
create an Engineering Degree Institute to fulfill the long felt public need of an Institute  
of Excellence in Borivali..</p>
```

```
</div>
```

#### *Forms*

An HTML form is used to collect user input. The user input is most often sent to a server for processing.

The HTML `<form>` element is used to create an HTML form for user input: `<form>`

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### *form elements*

*.*  
`</form>`

- The `<form>` element is a container for different types of input elements, such as: text fields, checkboxes, radio buttons, submit buttons, etc.
- The HTML `<input>` element is the most used form element.
- An `<input>` element can be displayed in many ways, depending on the type attribute. •

Here are some examples:

`<input type="text">` Displays a single-line text input field

`<input type="radio">` Displays a radio button (for selecting one of many choices)

`<input type="checkbox">` Displays a checkbox (for selecting zero or more of many choices)

`<input type="submit">` Displays a submit button (for submitting the form)

`<input type="button">` Displays a clickable button

- The `<input type="text">` defines a single-line input field for text input.

`<form>`

`<label for="fname">First name:</label><br>`

`<input type="text" id="fname" name="fname"><br>`

`<label for="lname">Last name:</label><br>`

`<input type="text" id="lname" name="lname">`

`</form>`

### *Frames*

- An HTML iframe is used to display a web page within a web page. The HTML `<iframe>` tag specifies an inline frame.
- An inline frame is used to embed another document within the current HTML document.

`<iframe src="url" title="description"></iframe>`

- It is a good practice to always include a title attribute for the `<iframe>`. This is used by screen readers to read out what the content of the iframe is.
- Use the height and width attributes to specify the size of the iframe.
- The height and width are specified in pixels by default:

`<iframe src="demo_iframe.htm" height="200" width="300" title="Iframe Example"></iframe>`

## 7. Laboratory Exercise

### A. Procedure

Write HTML code on Visual Studio Code or notepad

Select File, New to write to a new file

Save the file as .html

To view the output, right-click on the file and select *Open With* option. Then choose any web browser that is available.

Check output

### B. Program Code

Write and execute an HTML code to design a registration form as per the given details.

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St. Francis Institute of Technology  
Mount Poonam, Borivali (W), Mumbai – 400 186  
Phone No: (022) 28908585, 022-28908787 Email: sfit@sfit.ac.in Website: www.sfit.ac.in

Admission Enquiry Registration  
General Instructions:  
1.  
2.  
Name:     
First Name Middle Name Last Name  
Address:   
City:  State:  Pincode:   
Email ID:  Mobile No.   
Gender: ☐ Use radio buttons  
Date of Birth:  calendar  
Choice of Branch: ☐ Use checkbox  
Upload CET Score Card:  No file chosen  
Choose username:   
Enter password:  Use password input type  
Retype Password:  Use password input type

Make this as an iFrame – It should have Vision and Mission Statement of SFIT (Provided with the write up)

Make this as an iFrame – It should have SFIT building photo (Provided with the write up)

Designed by Your name PID No.

The following features of HTML are to be used -

- Block elements, Forms and iFrames

### 8. Post Experimental Exercise

1. what is the difference between datalist tag and select tag?
2. Complete the following code.
  - a. In the form below, add two checkboxes, both with the name "fruits".

```
<!doctype html>
<body>
<form>
<.....> Apple
<.....> Banana
</form>
</body></html>
```

- b. Complete the following code to display webpage within a webpage.

```
<..... src=..... title="description">.....
```

### 9. Results/Observations/Program output:

Present the program code and output

### 10. Conclusion:

Write what was performed in the experiment

Write which all features of HTML you used to perform the experiment

### 11. References:

- HTML 5 Black Book (Covers CSS3, JavaScript, XML, XHTML, AJAX, PHP, jQuery)

2Ed., DT Editorial Services

- <https://www.w3schools.com/html/default.asp>
- <https://spoken-tutorial.org/watch/HTML/Forms+in+HTML/English/>
- <https://www.tutorialspoint.com/html/index.htm>
- <https://www.youtube.com/watch?v=qz0aGYrrlhU>

### **3 |Internet Programming Lab**

**In-Lab Exercise:**

Write and execute an HTML code to design a registration form.

HTML:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width,
initial-scale=1.0" />
    <title>Experiment 2</title>
    <link rel="stylesheet" href="EXP2.css">
  </head>
  <body>
    <div>
      <header class="header-style">

        <h2 style="margin-bottom: 0;">St Francis Institute of
Technology</h2>
        <h4 style="margin-top: 0;">
          <address>Mount Poisur, Borivali(W), Mumbai 400103s</br>
            Phone No: 022-28908585 Email: sfedu@sfit.ac.in
Website: www.sfit.ac.in
          </address>
        </h4>
      </header>
      <section class="form">
        <div class="margin-top: 2em">
          <b>Admission enquiry Registration</b></br>
          General Information:
```

```
<li>Details Once Filled cannot be changed</li>
<li>Only Upload CET Final Marksheet</li>
</div>
<form class="form-items">
  <p>
    Name:
    <input type="text" id="fname" name="fname"
placeholder="First Name">
    <input type="text" id="mname" name="mname"
placeholder="Middle Name">
    <input type="text" id="lname" name="lname"
placeholder="Last Name">
  </p>
  <p>
    Address:
    <input type="text" id="Address" name="Address"
placeholder="Address">
  </p>
  <p>
    City: <input type="text" id="City" name="City"
placeholder="City">
    State: <select>
      <option value="AP">Andhra Pradesh</option>
      <option value="AR">Arunachal
Pradesh</option>
      <option value="AS">Assam</option>
      <option value="BR">Bihar</option>
      <option value="CT">Chhattisgarh</option>
      <option value="GA">Gujarat</option>
      <option value="HR">Haryana</option>
      <option value="HP">Himachal
Pradesh</option>
      <option value="JK">Jammu and
Kashmir</option>
```

```

        <option value="GA">Goa</option>
        <option value="JH">Jharkhand</option>
        <option value="KA">Karnataka</option>
        <option value="KL">Kerala</option>
        <option value="MP">Madhya Pradesh</option>
        <option value="MH">Maharashtra</option>
        <option value="MN">Manipur</option>
        <option value="ML">Meghalaya</option>
        <option value="MZ">Mizoram</option>
        <option value="NL">Nagaland</option>
        <option value="OR">Odisha</option>
        <option value="PB">Punjab</option>
        <option value="RJ">Rajasthan</option>
        <option value="SK">Sikkim</option>
        <option value="TN">Tamil Nadu</option>
        <option value="TG">Telangana</option>
        <option value="TR">Tripura</option>
        <option value="UT">Uttarakhand</option>
        <option value="UP">Uttar Pradesh</option>
        <option value="WB">West Bengal</option>
        <option value="AN">Andaman and Nicobar
Islands</option>

        <option value="CH">Chandigarh</option>
        <option value="DN">Dadra and Nagar
Haveli</option>

        <option value="DD">Daman and Diu</option>
        <option value="DL">Delhi</option>
        <option value="LD">Lakshadweep</option>
        <option value="PY">Puducherry</option>
    </select>
    Pincode: <input type="number" id="Pincode"
name="Pincode" placeholder="Pincode" maxlength="6">
</p>
<p>

```

```
        Email ID: <input type="email" id="email" name="email"
placeholder="Email" >
        Mobile Number: (+91) <input type="tel" id="phone"
name="phone" placeholder="Mobile Number" maxlength="10">
    </p>
    <p>
        Gender:
        <input type="radio" name="Male"/> Male
        <input type="radio" name="Female"/> Female
        <input type="radio" name="Other"/> Other
    </p>
    <p>
        Date of Birth:
        <input type="date" name="DOB" placeholder="Date of
Birth" >
    </p>
    <p>
        Choice of Branch:
        <input type="checkbox" name="INFT"/> INFT
        <input type="checkbox" name="INFT"/> CMPN
        <input type="checkbox" name="INFT"/> EXTC
        <input type="checkbox" name="INFT"/> ELEC
        <input type="checkbox" name="INFT"/> AIDS
    </p>
    <p>
        Upload CET score card:
        <input type="file" name="scorecard"/>
    </p>
    <p>
        Choose Username:
        <input type="text" id="username" name="username"
placeholder="Username"/>
    </p>
    <p>
```



```
        Enter Password:
        <input type="password" id="pass" name="pass"
placeholder="Password"/>
    </p>
    <p>
        Confirm Password:
        <input type="password" id="cpass" name="cpass"
placeholder="Confirm Password"/>
    </p>
    <p>
        <input type="submit" value="Submit">
    </p>

</form>
<iframe src="https://www.sfit.ac.in/" title="vision">
</iframe>
</br>
<iframe
src="https://images.collegedunia.com/public/college_data/images/campus
image/1630755306SFIT_Colege_Building_2.jpg?mode=stretch"
height="300px" width="700px" title="vision">
    </iframe>
</section>
</div>
</body>
</html>
```

CSS:

```
.header-style{
  display: flex;
  justify-content: center;
  flex-direction: column;
  align-items: center;
  background-color: beige;
  text-align: center;
}

.form{
  background-color: beige;
  display: flex;
  justify-content: center;
  flex-direction: column;
  align-items: center;
  text-align: justify;
}

iframe {
  border: 2px solid #000;
  border-radius: 10px;
  box-shadow: 5px 5px 15px rgba(0, 0, 0, 0.3);
  margin: 20px 0;
  width: 800px;
  height: 500px;
}
```

**Output:**

The image is a composite of three screenshots from a web browser. The top screenshot shows a registration form for St Francis Institute of Technology. The form includes fields for Name (First, Middle, Last), Address, City, State (dropdown), Pincode, Email ID, Mobile Number, Gender, Date of Birth, Choice of Branch (checkboxes for INFT, CMPN, EXTC, ELEC, AIDS), Upload CET score card (Choose File or No file chosen), Choose Username, Enter Password, Confirm Password, and a Submit button. The middle screenshot shows the 'OUR VISION' and 'OUR MISSION' sections of the institute's website. The 'OUR VISION' section states the institute's goal is to be a chrysalis for technological entrepreneurs. The 'OUR MISSION' section describes the commitment for UG and PG programs. The bottom screenshot shows a black and white photograph of the institute's building, a large, multi-story structure with many windows, surrounded by trees and landscaping.