
Lab 05

Designing page lay-out using DIV,s and CSS

Objective:

To familiarize the students with the use of Div's and the use of CSS for designing page layout

Activity Outcomes:

After this lab, the students should be able to

- use the DIV tag
- the use of CSS for page layout designing

Instructor Note:

As pre-lab activity, read Chapter 4 from the textbook “Web Design Playground: HTML & CSS the Interactive Way 1st Edition, April 2019 by Paul McFedries”.

1) Useful Concepts

Introduction

The div tag is used to define a division or section in an HTML document. It visually, allows us to make containers that can be formatted. It can be declared as: `<div>.....</div>`. We use div and CSS to design a page layout. The div tag is used to represent sections in a page and CSS is used to style these sections. We can describe the process of designing a page as

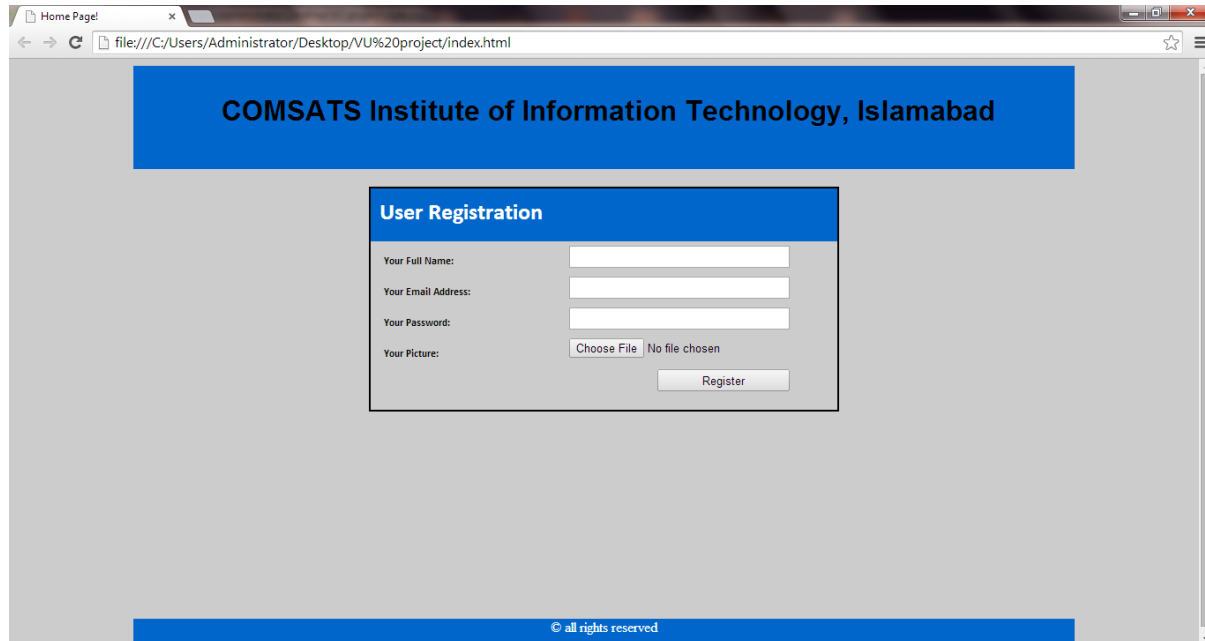
- Determine the requirements of the site
- Group the required information
- Make a site map
- Identify key elements for each page
- Decide about the arrangement of information on each page
- Translate the design into code

2) Solved Lab Activites

Activity 1:

Use div and CSS properties to design a page layout which contains

- a header section to display the title, style this title with CSS
- a form container which contains a registration form, use CSS to style the elements of the form
- a footer section



Solution:

External CSS

```
body {
background-color: lightblue;
}
h1 {
color: navy; margin-left: 20px; font-family: verdana;
font-size: 50px;
}
#para1 {
text-align: center; color: red;
}
.center {
text-align: center; color: yellow;
}
<html>
<head>
<title>Using divs</title>
</head>
<body>
<div>
<div style="width:100px;background-color:gray">First</div>
<div style="width:100px;background-color:red">second</div>
```

```
</div>
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<style>
body { font-family: Arial, Helvetica, sans-serif; }
* { box-sizing: border-box }

/* Full-width input fields */
input[type=text], input[type=password] {
  width: 100%;
  padding: 15px;
  margin: 5px 0 22px 0;
  display: inline-block;
  border: none;
  background: #f1f1f1;
}

input[type=text]:focus, input[type=password]:focus {
  background-color: #ddd;
  outline: none;
}

hr {
  border: 1px solid #f1f1f1;
  margin-bottom: 25px;
}

/* Set a style for all buttons */
button {
  background-color: #04AA6D;
  color: white;
  padding: 14px 20px;
  margin: 8px 0;
  border: none;
  cursor: pointer;
  width: 100%;
  opacity: 0.9;
}

button:hover {
  opacity: 1;
}
```

```

}

/* Extra styles for the cancel button */
.cancelbtn {
  padding: 14px 20px;
  background-color: #f44336;
}

/* Float cancel and signup buttons and add an equal width */
.cancelbtn, .signupbtn {
  float: left;
  width: 50%;
}

/* Add padding to container elements */
.container {
  padding: 16px;
}

/* Clear floats */
.clearfix::after {
  content: "";
  clear: both;
  display: table;
}

/* Change styles for cancel button and signup button on extra small screens */
@media screen and (max-width: 300px) {
  .cancelbtn, .signupbtn {
    width: 100%;
  }
}
</style>
<body>

<form action="/action_page.php" style="border: 1px solid #ccc">
  <div class="container">
    <h1>Sign Up</h1>
    <p>Please fill in this form to create an account.</p>
    <hr>

    <label for="email"><b>Email</b></label>
    <input type="text" placeholder="Enter Email" name="email" required>

    <label for="psw"><b>Password</b></label>
    <input type="password" placeholder="Enter Password" name="psw" required>

```

```

<label for="psw-repeat"><b>Repeat Password</b></label>
<input type="password" placeholder="Repeat Password" name="psw-repeat" required>

<label>
  <input type="checkbox" checked="checked" name="remember" style="margin-bottom:15px">
Remember me
</label>

<p>By creating an account you agree to our <a href="#" style="color:dodgerblue">Terms &
Privacy</a>.</p>

<div class="clearfix">
  <button type="button" class="cancelbtn">Cancel</button>
  <button type="submit" class="signupbtn">Sign Up</button>
</div>
</div>
</form>

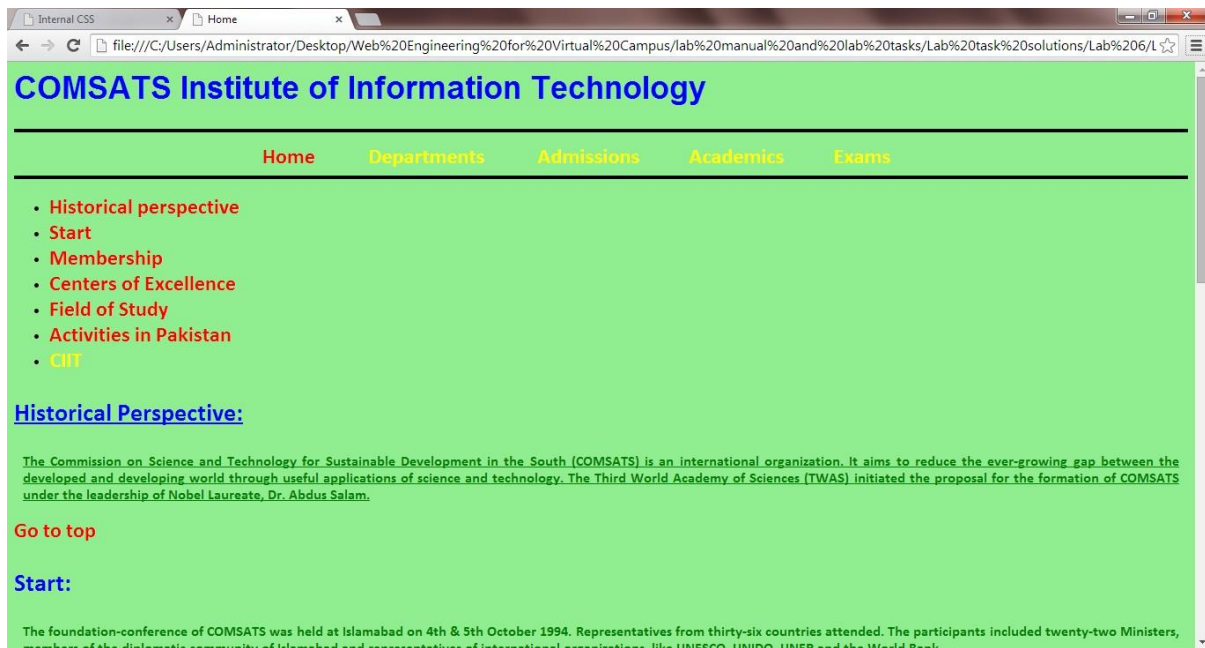
</body>
</html>

```

3) Graded Lab Tasks

Lab Task 1

Design the web template given below using tables and external CSS



Lab Task 2

Design the web page for Comsats Alumni using External CSS.