

SCHOOL OF ENGINEERING & TECHNOLOGY

LAB MANUAL

WEB TECHNOLOGY LAB

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- 1. Install a webserver (use XAMPP) to serve the webpages from your local machine. Study the different Server setting. Create a simple HTML project and test the project.
 - X the X stands for Linux, Windows and MAC OS X
 - A the A stands for Apache server which is the server software
 - M the M stands for MySQL which is the backend or the database software
 - PP PP stands for PHP/Perl which are server side scripting languages
 - Step 1: Download the latest version of XAMPP from
 - https://www.apachefriends.org/download.html according to your operating system.
 - Step 2: Run the .exe file
 - Step 3: Follow the Installation Wizard and choose default settings for installation
 - Step 4: Allow XAMPP to bypass firewall restrictions
 - Step 5: Complete installation



Figure 1.

The XAMPP configurations can be accessed through the XAMPP control panel as shown in the Figure 2 given below

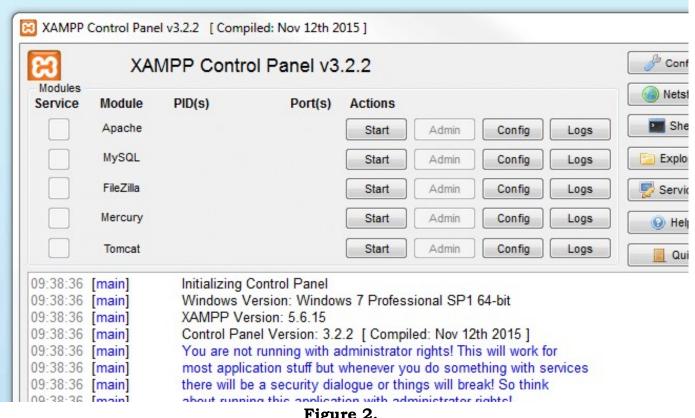


Figure 2.

2. Create a college website that consists of the following pages using HTML. Each page listed below must have a link for navigation.

Step1: Create the page with basic Structure

```
index.html
<!DOCTYPE html>
<html>
  <head>
    <link rel="stylesheet" type="text/css" href="d</pre>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-wi</pre>
    <title>My first HTML project</title>
  </head>
  <body>
      <div id="wrapper">
        <div id="header">
          <div id="logo"></div>
          <div id="main-menu">
            <a href="src/about.html">ABOUT US</a>
          </div>
          <div class="clear"></div>
        </div><!-- end of header -->
        <div id="sidebar">
          This is sidebar
        </div>
        <div id="content">
          This is content
        </div>
        <div class="clear"></div>
        <div id="footer">
          © Copyright 2022
```

Figure 3.

Step 2: use the <a> element to create the menu links

Step 3: use the element for displaying images in the webpages

Step 4: use different form elements like <form>, <input>, <submit>, <select>, <textarea> to design the registration form

3. Use CSS to style your project. Create a menu with background color for the various links in sl. No. 2 (a to f) using CSS. Create a drop down menu for 2(e).

STEP 1: create a file called style.css and put it under your project_name/css folder

STEP 2: use css properties like background, color, padding, margin etc to put styles to your pages

STEP 3: use CSS class selector to design the drop-down menu for the sub menu

4. Using Javascript validate the student registration form that you have developed. User names should not contain numbers or special characters. Phone Numbers should contain only digits. Email should be valid. Address fields should have pin number which should be 6 digits only.

STEP 1: create a file called script.js and put it under your project_name/js folder.

STEP 2: use DOM to access the various form elements and perform user validations.

STEP 3: write javascript functions to perform different kinds of validations

STEP 4: use RegExp for validation of user inputs

- 5. Create a database (use MySql) with students table. Store the information validated in Program No.4 into the students table. Create a table to store document information 2(f)
 - STEP 1: Access the MySQL server through localhost/phpmyadmin from your browser.
 - STEP 2: Create a database with a name of your choice.
 - STEP 3: Create a table named students_table and add the required details like roll_no, name, date_of_birth, department etc
 - STEP 4: perform CRUD (Create Read Update Delete) on the students_table that you have created.

6. Provide a mechanism to upload documents as mentioned in 2(f). The details of the documents must be stored in table (see sl. No. 5). Write a PHP code to query the document table and display the list of documents uploaded. The documents must be downloadable.

STEP 1: put the PDF documents in your project_name/docs folder

STEP 2: create a table in MySQL called docs_table with three columns <id,
description, dir>. Id should be AUTOINCREMENT field, description and dir are
both TEXT

STEP 3: save the location of the docs stored in STEP 1 in your database. For e.g. if a document is stored as project_name/docs/labmanual.pdf, then insert in the docs_table with the description as "lab manual" without the quotes and the dir should be "../docs/labmanual.pdf" without the quotes

STEP 4: write a PHP code to connect to the database

STEP 5: write MySQL query to read the contents of the table and display the list with a link to download the PDF documents.

LAB EXPERIMENT 7					
7. Use PHP to query the database table and obtain all the students information and display in HTML page. The information must be displayed in a table department wise. Maintain PHP SESSION.					

LAB EXPERIMENT 8							
8. Write XML to store information of a book with the following information:							