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DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
(Autonomous College Permanently Affiliated to the University of Mumbai)

Department of Information Technology

Course: Web Programming Lab **Academic Year: 2020 - 21**

Course Code: DJ19ITL405 **Semester: IV**

Experiment 1:

Aim: HTML

a) Create a class timetable using HTML.

b) Create a registration form using HTML.

c) Create a web page using HTML5 tags.

Theory: Explain the different HTML elements used to implement class timetable, registration form, web page using HTML5 tags.

Implementation:

a) Create a class timetable for Sem (IV) IT.

b) Create a registration form using both HTML and HTML5 elements.

c) Create a web page using HTML5 Semantic elements

Experiment 2:

Aim: CSS

a) Design a web page using External or Embedded Style Sheet.

Theory: Explain different tags used to include internal and external style sheet in HTML, also explain the cascading order.

Implementation:

Apply Internal and external style sheet to any one of the web pages developed in experiment number:1

Experiment 3:

Aim: CSS3

a) Design a responsive web page using media queries and CSS3.

b) Design a web page using Bootstrap.

c) Design the admission form using Bootstrap.

Theory: Explain responsive web page and different tags used to design responsive web page using media query, and using Bootstrap.

Implementation:

a) Design a responsive web page using media query

b) Design above web page also using Bootstrap.

c) Design a responsive admission form using Bootstrap.

Experiment 4:

Aim: JavaScript
a) Programs based on objects in JavaScript.
b) Program to design a calculator using JavaScript.

Theory: Explain various objects used and different tags used to implement above two programs

Implementation:

4.a) Programs based on objects in JavaScript

1. Collect information from the user and store in a variable for later user.
    - Create a basic page in html.
    - Using a prompt box, prompt the user to supply his or her name.
    - Save the name in a variable.
    - Then, using a document.write() statement, use the information stored in variables to display Hello username! in big, bold letters, i.e. surrounded by <h1> tags. username should, of course, be what the user actually typed into the prompt box.
    - Using the same variable, also display Hello username! in an alert message on the same page.
2. Display the following items in the page using only one or more document.write() statements:
    - Information about the web browser that the user is viewing this page with (hint: use the navigator.appName property).
    - The height and width of the user's monitor, i.e. the resolution(hint: use window.screen.availHeight and window.screen.availWidth)
    - The date that the page was created or last modified (hint: use the document.lastModified property).
3. String Manipulation(First read inbuilt methods of string object)

    Create a function ucFirst(str) which returns str with uppercased first character. Display the result using alert box. (Hint : Use CharAt)

    For example:

    ucFirst(john) == “John”

4.b) Program to design a simple calculator using JavaScript

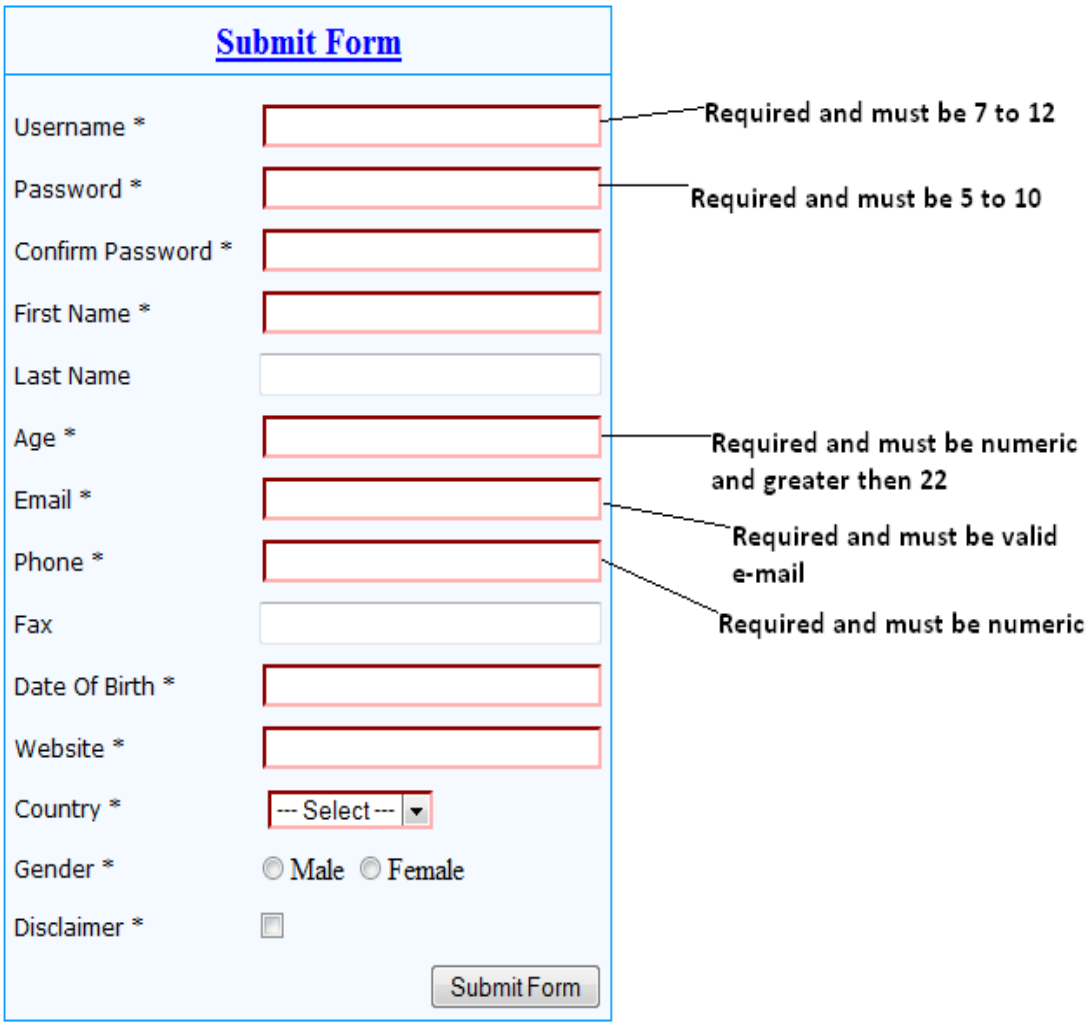
Experiment 5:

Aim: JavaScript
a) Programs based on form validation.

Theory: Explain form validation and code used to validate various fields.

Implementation:

a) Create a form shown below.
b) When clicking on "Submit Form" button, it will call the function validateForm(). This function will check whether the inserted data is correct or not. If any of the inserted data is not in proper format, it will display the alert box specifying the error. If all inserted data are in correct format it will display alert box "Your data has been validated!!!!"



Experiment 6:

Aim: React JS
a) Create an application using React.

Theory: Explain code used to implement react application

Implementation:

Design a react app to convert the temperature from Celsius to Fahrenheit and vice versa.

Experiment 7:

Aim: PHP
a) Installation and configuration of XAMPP/ WAMP Server.
b) Programs based on built-in functions in PHP.

Theory: Explain various functions used to implement PHP programs.

Implementation:

7.b) Programs based on built-in functions in PHP

a) Write a PHP script to generate simple random password from a given string
Sample
String: '1234567890ABCDEFGHIJKLMNOPQRSTUVWXYZabcefghijklmnopqrstuvwxyz'
Note: Password length may be 6, 7, 8 etc. Use **str_shuffle()** function.

b) Write a PHP script to insert a string at the specified position in a given string.
Original String: 'The brown fox'
Insert 'quick' between 'The' and 'brown'.
Expected Output: 'The quick brown fox'
Hint: Use substr_replace() function.

c) Write a PHP script to remove backslashes and clean up data retrieved from a database or from an HTML form
Hint: Use stripcslashes() function.

d) Write a PHP script to submit the form data using post method. Display the data submitted on page demo.php

e) Write a PHP script to check the connectivity to the database in conection.php. Use connection.php in the file insert.html.
Hint: Use **include**

Experiment 8:

Aim:

PHP & MySQL

a) Implement PHP – MySQL database connectivity.

Theory: Explain various functions and command used for PHP and MYSQL database connectivity.

Implementation:

a) Create a login form that allow only authenticated user to access the registration form
b) Create a registration form and perform insert, update, delete and select operation on it.

Experiment 9:

Aim:

XML & XSL

a) Design XML using XML DTD and schema.

b) Implementing XSL elements in XML.

c) Validating XML data through DTD and storing in database.

Theory: Explain XML, explain the syntax to validate XML using XSD and DTD. Explain how we can add styling to XML document?

Implementation: