



## **Lab 1**

### **Objectives:**

- Introducing Apache server, PHP, SQL, and MySQL.
- Installation and configuration of XAMPP.
- Installing a PHP editor.
- Creating basic registration form and welcome page using PHP and Html.
- Validating forms using JavaScript.

### **Apache:**

The Apache HTTP Server, commonly referred to as Apache, is a web server software notable for playing a key role in the initial growth of the World Wide Web. [Wikipedia]

Apache supports a variety of features, many implemented as compiled modules which extend the core functionality. These can range from server-side programming language support to authentication schemes. Some common language interfaces support Perl, Python, and PHP. Samples of other features include Secure Sockets Layer and Transport Layer Security support. [Wikipedia]

### **PHP:**

The PHP stands for PHP: Hypertext Preprocessor. This type of acronym is called a recursive acronym.

PHP is a widely-used general-purpose scripting language that is especially suited for Web development and can be embedded into HTML.

PHP is a powerful tool for making dynamic and interactive Web pages. Much of its syntax is borrowed from C, Java and Perl with a couple of unique PHP-specific features thrown in Layer and Transport Layer Security support. [Wikipedia]

## **SQL:**

SQL, sometimes referred to as Structured Query Language, is a special-purpose programming language designed for managing data in relational database management systems (RDBMS). It is a standard language for accessing databases.

## **MySQL:**

MySQL is the world's most used open source relational database management system (RDBMS). The data in MySQL is stored in database objects called tables. A table is a collection of related data entries and it consists of columns and rows. The MySQL database has become the world's most popular open source database because of its high performance, high reliability and ease of use. Many of the world's largest and fastest-growing organizations including Facebook, Google, Adobe, and Alcatel Lucent rely on MySQL.

## **XAMPP:**

XAMPP is a free and open source cross-platform web server solution stack package, consisting mainly of the Apache HTTP Server, MySQL database, and interpreters for scripts written in the PHP and Perl programming languages. [Wikipedia]

## **Installation:**

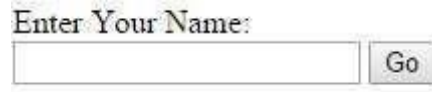
During the lab we will be installing XAMPP and configuring it on Windows platform.

## **PHP Editors:**

- Aptana: <http://www.apтана.com/>
- Netbeans: <http://netbeans.org/>
- Aptana Eclipse Plugin: <http://www.apтана.com/products/studio3/download>
- Any text editor

## **Simple Web Page with JavaScript Validation**

Create a simple html document that contains label, textbox and button like the following screenshot



A screenshot of a web form. It features a label 'Enter Your Name:' in a serif font. Below the label is a rectangular text input field. To the right of the input field is a button labeled 'Go'.

When the user enters name and presses Go Navigate to another page that says Welcome {User Name} IF the name is empty display an alert that says “please enter your name”.

## **References and Helpful links:**

- 1- <https://www.apachefriends.org/download.html>
- 2- <https://sourceforge.net/projects/xampp/files/XAMPP%20Windows/>
- 3- <http://www.php.net/>
- 4- <http://www.w3schools.com/php/default.asp>
- 5- [http://www.w3schools.com/php/php\\_mysql\\_intro.asp](http://www.w3schools.com/php/php_mysql_intro.asp)
- 6- More links and resources on the web.