

WTL Assignment-5

1 Title

Design web application using PHP, MySQL, AJAX

2 Problem Statement

Add dynamic web application features to previously selected application using PHP, MySQL database connectivity and AJAX controls.

3 Learning objectives

- To study PHP to design web pages and also study MySQL database connectivity in PHP.
- To study how to use AJAX controls in web page.

4 Learning outcomes

The students shall be able to design and develop a dynamic web application using php,MySQL and AJAX.

5 Requirements

Operating System open source Fedora 20 Networked computer with internet access Editor : IDE : Netbeans 8.1 Web browser Mozilla Firefox, Google Chrome

6 Theory

6.1 PHP

PHP stands for Hypertext Preprocessor. It is a programming language used to design dynamic web pages. PHP was started as Open Source project. Rasmus Lerdorf gave first version of PHP in 1994. PHP is a server side scripting language that is embedded in HTML. It is used to manage dynamic content,databases,

session tracking, even build entire e-commerce sites. It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server. PHP supports a large number of major protocols such as POP3, IMAP, and LDAP.

6.1.1 Common uses of PHP

PHP performs system functions, i.e. from files on a system it can create, open, read, write, and close them.

- PHP can handle forms, i.e. gather data from files, save data to a file, through email you can send data, return data to the user.
- You add, delete, modify elements within your database through PHP.
- Access cookies variables and set cookies.
- Using PHP, you can restrict users to access some pages of your website.
- It can encrypt data.

6.1.2 Sample program in PHP

```
<html> <head> <title>Hello World Program in PHP</title> </head> <body> <? php  
echo —Hello World!!; ?> </body> </html>
```

Output of the program will be as follows: Hello World!!

6.2 AJAX

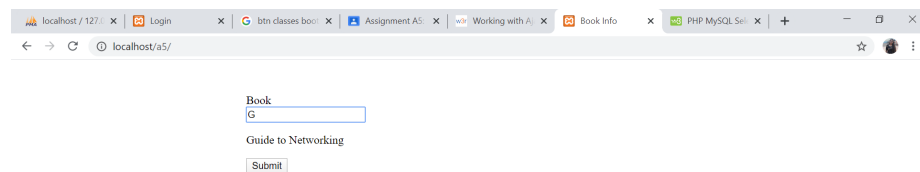
AJAX is a web development technique for creating interactive web applications. AJAX stands for Asynchronous JavaScript and XML. AJAX is a new technique for creating better, faster, and more interactive web applications with the help of XML, HTML, CSS, and Java Script. Ajax uses XHTML for content, CSS for presentation, along with Document Object Model and JavaScript for dynamic content display. Conventional web applications transmit information to and from the sever using synchronous requests. It means you fill out a form, hit submit, and get directed to a new page with new information from the server. All the available browsers cannot support AJAX. Here is a list of major browsers that support AJAX.

- Mozilla Firefox 1.0 and above.
- Netscape version 7.1 and above.
- Apple Safari 1.2 and above.
- Microsoft Internet Explorer 5 and above.
- Konqueror.

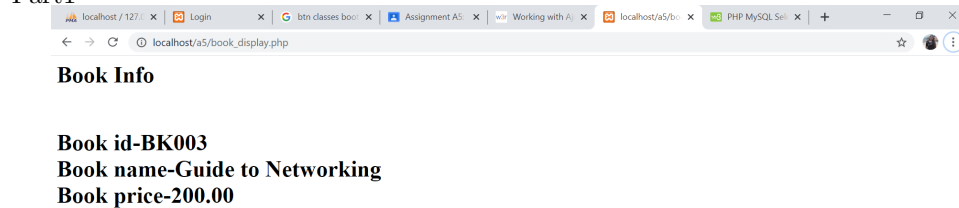
- Opera 7.6 and above.

The whole AJAX operation is given in following steps: 1. A client event occurs. 2. An XMLHttpRequest object is created. 3. The XMLHttpRequest object is configured. 4. The XMLHttpRequest object makes an asynchronous request to the Webserver. 5. The Webserver returns the result containing XML document. 6. The XMLHttpRequest object calls the callback() function and processes the result. 7. The HTML DOM is updated.

7 Output



Part1



Part2

8 Conclusion

Through this assignment, we have successfully studied, designed and deployed a dynamic web application using PHP, MySQL AND AJAX.