



C. U. Shah University, Wadhwan City

Faculty of Computer Science

Name of Program: Master of Science in Information Technology

(Web Technology)

Semester : I

W.e.f. June – 2016

Teaching & Evaluation Scheme

Sr. No	Subject Code	Subject Name	Teaching Hours/Week				Credits	Evaluation Scheme/Semester							
			Th	Tu	Pr	Total		Theory				Practical			Total Marks
								Sessional Exam		University Exam		Internal		Uni.	
								Marks	Hrs	Marks	Hrs	Pr	TW	Pr	
3	5CS01WPH1	Web Application Development using PHP	4	-	-	4	4	30	1.5	70	3	-	-	-	100

Objectives:

The objective of PHP course is to train students in becoming proficient PHP/MySQL web developers.

Pre-requisites:

All MySQL and PHP class attendees must be fluent in HTML. The course can be customized to any level of programming and relational database familiarity.

Course Outline:

Ch. No.	Chapter Name	Course Contents	Lect. Hours
1	Accessing PHP	1.1 PHP syntax 1.2 Embedding PHP in HTML 1.3 Handling form with \$_GET, \$_POST and \$_REQUEST 1.4 Understanding of variable 1.5 Examining Variable Types, 1.6 Declaring and Using Constants 1.7 Understanding Variable Scope, 1.8 Using Operators 1.9 Using Variable Functions 1.10 Looping Structure: for loop, while loop, do..while loop and foreach loop 1.11 Making Decision with Conditionals statements, 1.12 User defined functions, 1.13 categories of user defined functions	5
2	Array, Strings and Date functions	2.1 Types of array 2.2 PHP array functions, extract() 2.3 Sorting arrays, 2.4 splitting and merging arrays 2.5 Performing other array Manipulations 2.6 PHP string functions:Joining and Splitting Strings, Compare Strings, Matching and Replacing Substrings with String Functions 2.7 Performing other string manipulations 2.8 Date and time functions	5
3	Working with Web Forms and Regular expression	3.1 Handling textfields, textarea, checkboxes, radio buttons, list boxes, password controls, hidden controls, file uploads, buttons and submit buttons 3.2 Reusing code using: include(), include_once(), require(), require_once() 3.3 Regular expressions, Validating form data using regular expressions.	5

4	Session, Cookie and Emails	4.1 Purposes of session 4.2 starting a session 4.3 Storing data in sessions, 4.4 destroy a session 4.5 Setting a cookie 4.6 reading a cookie 4.7 setting cookie's expiration 4.8 deleting cookies 4.9 Sending and Reading Email	5
5	File handling Function	5.1 File handling functions 5.2 PHP File Upload: Create an Upload-File Form 5.3 Create the Upload Script 5.4 Restrictions on Upload, 5.5 Saving the Uploaded File 5.6 PHP File Downloading	5
6	Accessing MySQL with PHP	6.1 PhpMyAdmin 6.2 MySQL DataTypes 6.3 Connectivity 6.4 Querying the database 6.5 Retrieving and Sorting 6.6 Restricting Data 6.7 MySQL Functions 6.8 Displaying Data from Multiple Table (Joining) 6.9 Aggregate Functions and Aggregation Using GROUP BY Clause 6.10 Subquery , 6.11 Join query 6.12 Manipulating table 6.13 Creating and Managing Table	10
7	GD Library and PDF	7.1 GD library usages in PHP 7.2 Drawing Images on the Server 7.3 PDF creation function 7.4 Generate Pager Report using PDF	5
8	Object Oriented Programming	8.1 Creating Classes, Objects 8.2 Access to properties and methods, 8.3 Constructor 8.4 Destructor 8.5 inheritance, 8.6 Accessing MySQL Database from the Web with PHP using OOPs.	5
9	Ajax with PHP	9.1 Understanding AJAX 9.2 Using the XMLHttpRequest Object 9.3 Creating the XMLHttpRequest Object 9.4 HTTP Request and Response Fundamentals 9.5 The XMLHttpRequest Object: XMLHttpRequest Methods and Properties 9.6 Initiating Server Requests Using XMLHttpRequest 9.7 Handling Server Response 9.8 Making Asynchronous Calls with XMLHttpRequest 9.9 Building an Application with AJAX and PHP 9.10 Connecting to Database and Executing Queries	10
		TOTAL	55

Learning Outcomes:

At the end of the course, students will have basic understanding of the web technology and be able to architect, write, debug, and run complete web applications using PHP and MySQL as well as Ajax with PHP.

Teaching Methodology:

Revision, Paper Solving, Seminar, Expert Talk, MCQ Quiz, Viva Test, Programming test

Books Recommended:

- (1) Sams Teach Yourself PHP, MySQL and Apache All in One, Pearson Education, Inc., Julie C. Meloni,
ISBN-13: 978-0-672-33543-3
- (2) PHP5 and MySQL® Bible, Wiley Publishing, Inc., Tim Converse and Joyce Park with Clark Morgan,
ISBN-13: 978-0-7645-5746-0
- (3) PHP: The Complete Reference, McGraw-Hill Education, Steven Holzner,
ISBN: 0071508546 / 9780071508544
- (4) AJAX and PHP Building Responsive Web Applications, Packt Publishing, CristianDarieBogdanBrinzarea
FilipChereches-TosaMihaiBucicaISBN:1-904811-82-5
- (5) Beginning Ajax with PHP From Novice to Professional, Apress Publishing, Lee Babin,
ISBN-13: 978-1-59059-667-8

Reference Books:

- (1) PHP6 and MySQL® Bible, Wiley Publishing, Tim Converse and Joyce Park with Clark Morgan,
ISBN-13: 978-0-470-38450-3
- (2) PHP and MySQL for dynamic Web Sites: Visual Quickpro Guide, Peachpit Press, Larry Ullman,
ISBN-13: 978-0-321-78407-0



C. U. Shah University, Wadhwan City

Course: M.Sc.IT (Web Technology)

Semester : I

List of the Practicals

(1) Write a PHP script to display following output

Select item :	<input type="text" value="Keyboard"/> Mouse Monitor
Enter quantity :	<input type="text" value="2"/>
<input type="button" value="Display"/>	

Item : Keyboard

Price : 1000

Quantity : 2

Total : 2000

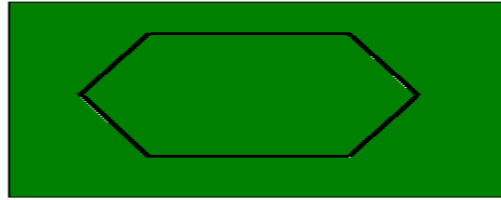
When you click on Add button, it will display the below output. Price of the Keyboard is 1000 Rs. Mouse is 500 Rs. And Monitor is 5000 Rs. (Hint : Take associative array to store the price of the item)

(2) Write a php script to display following output

Enter no1 :	<input type="text"/>
Enter no2 :	<input type="text"/>
<input type="button" value="Add"/>	

In mysql, create a database calculation, and create a table addition with three fields no1,no2,ans. When you click on Add button, the record will be inserted into the addition table. If record is inserted successfully, it will display appropriate message.

(3) Write a php script to display following output using GD library



(4) Write a php script to display following output using gd library



(5) Write a php script for file handling. When you click on Copy button, the source file will be copied with destination file name

Select source file name :	<input type="text" value="C:\1.txt"/> <input data-bbox="1089 982 1235 1024" type="button" value="Browse..."/>
Enter destination file name :	<input type="text" value="c:\2.txt"/>
<input type="button" value="Copy"/>	

(6) Write a PHP script to insert the record in student database with std table with fields name, mark1, mark2, mark3,total, per, class. When you click on Insert button, the record will be inserted into the table and display appropriate message.

Enter name :	<input type="text"/>
Enter mark1 :	<input type="text"/>
Enter mark2 :	<input type="text"/>
Enter mark3 :	<input type="text"/>
<input type="button" value="Insert"/>	

(7) Write a phpscript to display following output

Enter rollno :	<input type="text"/>
Enter name :	<input type="text"/>
<input type="radio"/> FY <input type="radio"/> SY <input type="radio"/> TY	
<input type="button" value="Insert"/>	

Create a college database in mysql, create fy,sy and ty table with rollno& name field. If user click on Fy radio button and click on Insert button, the record will be inserted into the fy table and viceversa.

(8) Write a php script to display the records in table format.Create an employee database in mysql with emp table with fields empno, name, designation and salary. Insert 5 records into them.

(9) Write a php script to display the following output

Enter rollno :	<input type="text"/>
Enter name :	<input type="text"/>
Enter city :	<input type="text"/>
<input type="button" value="Insert"/>	

Create a pupil database in mysql, create std table with rollno& name &city field. when user click on Insert button, the record will be inserted into the table. Duplicate rollno are not allowed for insertition. If user enter rollno which is already exist into the table, display appropriate message and record must not be inserted.

(10) Write a php script for the following

Enter username :	<input type="text"/>
Enter Password :	<input type="text"/>
<input type="button" value="Login"/>	

Create a login database with user table with fields username and password through phpmyadmin and insert 5 records into them. When user enters username and password, if the username and password will be matched with any record then display “welcome” message otherwise display “Username or password invalid” message.

(11) Write a php script for the following

Will India win the match ?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> May be
<input type="button" value="Insert"/>	

Yes : 5

No : 3

May be : 2

Create a cricket database with match table with fields yes,no& maybe through phpmyadmin. When user select any option, and click on insert button the record will be inserted and all the inserted record will be displayed as above like how many people select yes, how many select no and how many select maybe option.

(12) Create a student database with std table with fields rollno, name and city through phpmyadmin and insert 5 records into them. Write a php script to display all records in table format with radio button, when user select any radio button and click on delete button the record will be deleted from the table.

(13) Create a student database with std table with fields rollno, name and city through phpmyadmin and insert 5 records into them. Write a php script to display all records in table format with checkbox, As many checkboxes are selected and user click on Delete button, those record will be deleted from the table.

(14) Create a student database with std table with fields rollno, name and city through phpmyadmin and insert 5 records into them. Write a php script to display the combo box which will display all the rollno which is inserted into the table. When user select any rollno and click on display button, that record will be displayed.

(15) Create an employee database in mysql with emp table with fields empno, name, designation and salary. Insert 5 records into them.

Write a php script to display the records in table format with no of records.

(16) Write a Program to insert the record in std table and check that Rollno should not be duplicate.

Enter Rollno :	<input type="text"/>
Enter Name :	<input type="text"/>
Enter City :	<input type="text"/>
<input type="button" value="Insert"/> <input type="button" value="Clear"/>	

(17) Write a program to display rollno in combo box, those records have inserted into table. rollno will be displayed in the combo box. When user selects any one of them that record will be displayed.

Rollno:	1 ▾
	1
	2
	3
	4
	5
<input type="button" value="Submit"/>	

Rollno	Name	Branch
4	aaaa	BCA

(18) Write a PHP script for the following screen layout(*serial number should be auto generated)

Serial No.	Rollno	Name
1	101	ABC
2	102	XYZ
3	103	PQR

Serial Number:	<input type="text" value="4"/>
Enter Rollno:	<input type="text"/>
Enter Name:	<input type="text"/>
<input type="button" value="Submit"/>	

(19) An employee database has emp table with the fields (empno,ename,dept,sal). Write a PHP script to display all employee nos in combobox. When user selects empno and click on display, the whole record is displayed for updation. Empno must be readonly. User can make necessary changes. When user clicks on update button, the record should be updated.

<table border="1"> <tr> <td>Employee no :</td> <td>101 ▾</td> </tr> <tr> <td></td> <td>101 102 103 104 105 121</td> </tr> <tr> <td colspan="2" style="text-align: center;"><input type="button" value="Display"/></td> </tr> </table>	Employee no :	101 ▾		101 102 103 104 105 121	<input type="button" value="Display"/>		<table border="1"> <tr> <td>Employee no</td> <td><input type="text" value="101"/></td> </tr> <tr> <td>Employee name</td> <td><input type="text" value="aaa"/></td> </tr> <tr> <td>Department</td> <td><input type="text" value="Sales"/></td> </tr> <tr> <td>Salary</td> <td><input type="text" value="10000"/></td> </tr> <tr> <td colspan="2" style="text-align: center;"><input type="button" value="Update"/></td> </tr> </table>	Employee no	<input type="text" value="101"/>	Employee name	<input type="text" value="aaa"/>	Department	<input type="text" value="Sales"/>	Salary	<input type="text" value="10000"/>	<input type="button" value="Update"/>		<table border="1"> <tr> <td>Record is updated</td> </tr> </table>	Record is updated
Employee no :	101 ▾																		
	101 102 103 104 105 121																		
<input type="button" value="Display"/>																			
Employee no	<input type="text" value="101"/>																		
Employee name	<input type="text" value="aaa"/>																		
Department	<input type="text" value="Sales"/>																		
Salary	<input type="text" value="10000"/>																		
<input type="button" value="Update"/>																			
Record is updated																			

(20) An employee database has emp table with the fields (empno,ename,dept,sal). Write a PHP script to display all employee nos in combobox. When user selects empno and click on display, the whole record is displayed for deletion. When user clicks on delete button, the record should be deleted.

<table border="1"> <tr> <td>Employee no :</td> <td>101 ▾</td> </tr> <tr> <td></td> <td>101 102 103 104 105 121</td> </tr> <tr> <td colspan="2" style="text-align: center;"><input type="button" value="Display"/></td> </tr> </table>	Employee no :	101 ▾		101 102 103 104 105 121	<input type="button" value="Display"/>		<table border="1"> <tr> <td>Employee no</td> <td>101</td> </tr> <tr> <td>Employee name</td> <td>aaa</td> </tr> <tr> <td>Department</td> <td>Purchase</td> </tr> <tr> <td>Salary</td> <td>10000</td> </tr> <tr> <td colspan="2" style="text-align: center;"><input type="button" value="Delete"/></td> </tr> </table>	Employee no	101	Employee name	aaa	Department	Purchase	Salary	10000	<input type="button" value="Delete"/>		<table border="1"> <tr> <td>Record is deleted</td> </tr> </table>	Record is deleted
Employee no :	101 ▾																		
	101 102 103 104 105 121																		
<input type="button" value="Display"/>																			
Employee no	101																		
Employee name	aaa																		
Department	Purchase																		
Salary	10000																		
<input type="button" value="Delete"/>																			
Record is deleted																			

(21) Write a PHP script to save a file to the upload folder in the current directory

<p>Select a file to upload:</p> <div style="border: 1px solid #ccc; padding: 2px; display: flex; align-items: center;"> <input style="width: 90%; border: none;" type="text"/> <input style="margin-left: 5px; border: none;" type="button" value="Browse..."/> </div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px; display: flex; align-items: center;"> <input style="width: 90%; border: none;" type="button" value="Upload File"/> </div>	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>File is uploaded successfully</p> </div>
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(22) Write a PHP script to delete single record of stdtable(rollno,sname,city) using radio button .

<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Employee no</th> <th>Employee name</th> <th>Department</th> <th>Salary</th> <th>Select</th> </tr> </thead> <tbody> <tr> <td>102</td> <td>bbb</td> <td>Purchase</td> <td>20000</td> <td><input type="radio"/></td> </tr> <tr> <td>103</td> <td>CCC</td> <td>Finance</td> <td>30000</td> <td><input type="radio"/></td> </tr> <tr> <td>104</td> <td>DDD</td> <td>Sales</td> <td>15000</td> <td><input type="radio"/></td> </tr> <tr> <td>105</td> <td>EEE</td> <td>Finance</td> <td>15200</td> <td><input type="radio"/></td> </tr> <tr> <td>121</td> <td>aaa</td> <td>Sales</td> <td>5000</td> <td><input checked="" type="radio"/></td> </tr> </tbody> </table> <div style="text-align: center; margin-top: 5px;"> <input type="button" value="Display"/> </div>	Employee no	Employee name	Department	Salary	Select	102	bbb	Purchase	20000	<input type="radio"/>	103	CCC	Finance	30000	<input type="radio"/>	104	DDD	Sales	15000	<input type="radio"/>	105	EEE	Finance	15200	<input type="radio"/>	121	aaa	Sales	5000	<input checked="" type="radio"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Employee no</td> <td>121</td> </tr> <tr> <td>Employee name</td> <td>aaa</td> </tr> <tr> <td>Department</td> <td>Sales</td> </tr> <tr> <td>Salary</td> <td>5000</td> </tr> <tr> <td colspan="2" style="text-align: center; padding: 5px;"> <input type="button" value="Delete"/> </td> </tr> </table>	Employee no	121	Employee name	aaa	Department	Sales	Salary	5000	<input type="button" value="Delete"/>		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>Record is deleted</p> </div>
Employee no	Employee name	Department	Salary	Select																																						
102	bbb	Purchase	20000	<input type="radio"/>																																						
103	CCC	Finance	30000	<input type="radio"/>																																						
104	DDD	Sales	15000	<input type="radio"/>																																						
105	EEE	Finance	15200	<input type="radio"/>																																						
121	aaa	Sales	5000	<input checked="" type="radio"/>																																						
Employee no	121																																									
Employee name	aaa																																									
Department	Sales																																									
Salary	5000																																									
<input type="button" value="Delete"/>																																										

(23) Write a PHP script to delete multiple records of stdtable(rollno,sname,city) using checkbox

(24) Write a PHP script to insert the record with following validation using regular expression

- Rollno must not be duplicate
- sname contain only alphabets and space.
- city contain only alphabets

(25) Write a PHP script to create new user page.

(26) Write a phpscript to display following output

Enter rollno :	<input style="width: 90%;" type="text"/>
Enter name :	<input style="width: 90%;" type="text"/>
<input type="radio"/> FY <input type="radio"/> SY <input type="radio"/> TY	
<input type="button" value="Insert"/>	

(27) Employee database has emp table with fields eno,ename, dept, salary, designation
Write a PHP script to display the following summary.

Summary of Total salary for all departments

Total Salary of Purchase department	9999999
Total Salary of Sales department	9999999
Total Salary of Finance department	9999999

(28) Employee database has emp table with fields eno,ename, dept, salary, designation
Write a PHP script to display the following summary.

Summary of No of employees in all departments

Total employees in Purchase department	9999999
Total employees in Sales department	9999999
Total employees in Finance department	9999999

(29)Write a PHP script to display those rollno and name whose total >=500

Student database has two tables

Table Name: Std	Table Name: Result
Rollno	Rno
Sname	Total
City	

(30) Write a PHP script for the above database and display the following output

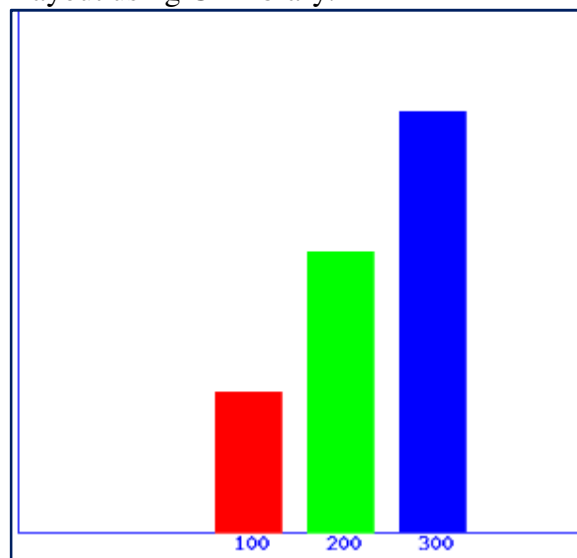
Rollno	Name	Total
1	Aaa	100
2	Bbb	200
3	Ccc	300

(31)Write a php script to display the selected fields using checkboxes.

(32) Write a php script for display information from student table into pdf formant

(33)Write a php script for the following screen layout using GD library.

Enter no1 :	<input type="text" value="100"/>
Enter no2 :	<input type="text" value="200"/>
Enter no3 :	<input type="text" value="300"/>
<input type="button" value="Draw"/>	



(34) Write a php script for inserting record into Employee table using object oriented way.

(35) Write a php script for displaying records from Employee table using prepared statement with object oriented way.

Department:	Select Department ▾
<input type="button" value="Display"/>	

(36) Write a php script for displaying record from Student table using prepared statement with object oriented way.

Enrollment No:	<input type="text"/>
<input type="button" value="Display"/>	

(37) Write php script for the following screen layout using object oriented way:

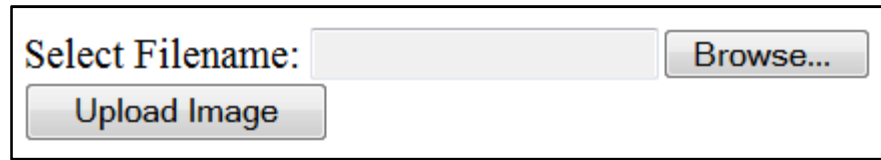
Login Here ! Email or Username <input type="text" value="aaa@gmil.com"/> Password <input type="password" value="....."/> <input type="button" value="Login"/> Register new user	I am new user ! Full Name <input type="text"/> Username <input type="text" value="aaa@gmil.com"/> Password <input type="password" value="....."/> Email <input type="text"/> <input type="button" value="Register"/> I already Registered. Login here
--	--

Table:user (Fields: uid, username, password, name, email)

Creating new user account for that single username or email registered should be allowed.

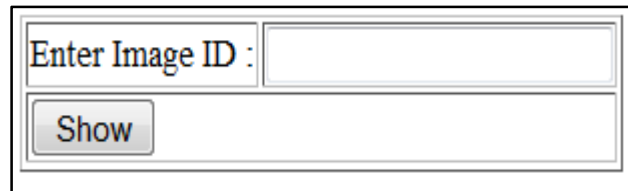
Create user table and insert new user account into table but do not duplicate user name or email. Login process can be done using email or username, if email or username and password matched with record then display welcome message for login user.

(38) Write a php script for the following user interface for image uploading using prepared statement. Store image to table in BLOB data type.



Select Filename:

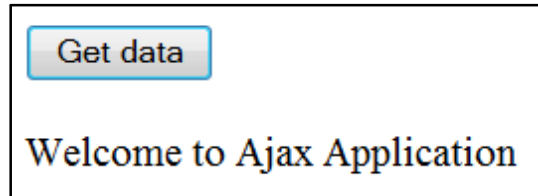
And also display those images that are stored into image table using prepared statement.



Enter Image ID :

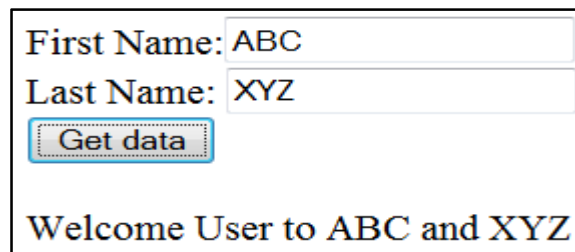
Table: image (Field: id int(5) , imgmediumblob)

(39) Write an Ajax script with php for the following message:



Welcome to Ajax Application

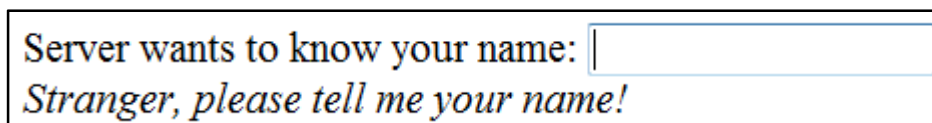
(40) Write an Ajax script with php for the following UI:



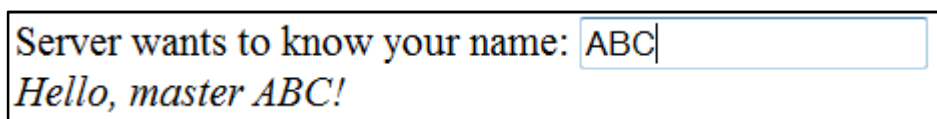
First Name:
Last Name:

Welcome User to ABC and XYZ

(41) Write an Ajax script with php for the following UI:



Server wants to know your name:
Stranger, please tell me your name!



Server wants to know your name:
Hello, master ABC!

(42) Write an ajax script with php for the following output design:

Select Department:

Emp ID	Employee Name	Department	Email
101	ABC	Computer	abc@gmail.com
102	XYZ	Computer	xyz@gmail.com

(43) Write an ajax script with php for the following output design:

B.C.A B.Sc.IT

Rollno	Name	City
1	abc	aaa
2	xyz	bbb

(44) Write an ajax script for the following user interface layout as following:

Form Validation Using AJAX

Fill Your Information!

Username Must be 3+ letters

Password Password too short

Email Invalid email

website Invalid website

(45) Write an ajax script for the user name available or not with real time check out with user table.

Enter User name: <input type="text" value="abc"/>	This user name is Already exists
Enter Password: <input type="password" value="..."/>	
<input type="button" value="Create User"/>	

Enter User name: <input type="text" value="user2015"/>	This User name is available
Enter Password: <input type="password" value="....."/>	
<input type="button" value="Create User"/>	

Table: user [Field: uid, username, password]

If username is not existing in the table, then insert that record into the table.

If Username is existing in the table then give the message not available user.