15IT304J – WEB PROGRAMMING LAB

SEMESTER - VI

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Class : **III   B.Tech. IT**

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FACULTY OF ENGINEERING AND TECHNOLOGY
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
(Under Section 3 of UGC Act, 1956)
S.R.M. NAGAR, KATTANKULATHUR – 603 203
KANCHEEPURAM DISTRICT

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BONAFIDE CERTIFICATE

Register No.: RA1711008010251

Certified to be the bonafide record of work done by **VENKAT CHANDRA** *of* **INFORMATION TECHNNOLOGY** *B.Tech. Degree course in the Practical in SRM Institute of Science and Technology, Kattankulathur during the academic year 2020*

Lab Incharge : T.KARTHIK

Date: **Head of the Department**
                                                                                    Dr.G.Vadivu

Submitted for University Examination held on _____ *at*
SRM Institute of Science and Technology, Kattankulathur.

Date: **Internal Examiner I**   **Internal Examiner II**

INDEX

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0		**Installation, Environment Preliminaries**			
1		**Creating web pages using HTML5 Semantic and Structural Elements**			
2		**Design the web pages using Cascading Style Sheet (CSS 3.0)**			
3		**Design dynamic web pages with validation using JavaScript**			
4		*i)* **Creating mysql database and tables in *phpmyadmin*** **ii) Database Connectivity using PHP**			
5		**Creating web pages with menu and Navigation**			
6		**Implementing business logic**			
7		**Implementing session and cookies in the web pages**			
8		**Hosting the website**			
9		**Simple applications using JSP and Servlets**			
10		**Simple applications using AJAX**			
11		**Simple application for accessing the data using XML**			
12		**Application for web services**			

Shneiderman's 8 Golden Rules of Interface Desiga

1. Strive for consistency	Is the style of this element maintained across your site/app? Is this content placed in the correct location according to the site hierarchy? Does this follow the conventions for your chosen platform? How can you make your designs more consistent?
2. Enable frequent users to use shortcuts	Are there shortcuts available for your more experienced users? Who is this product designed for? Will there be a need to consider experienced users? How can you make it easier and quicker for experienced users?
3. Offer informative feedback	Does the user know where they are at in the process? Does the user know what they have done after performing this action? How are you communicating this feedback to your user?
4. Design dialogue to yield closure	Does the user have to do any guessing here? Is it clear and obvious enough for your intended audience? Are there any next steps for the user? How are you communicating the system status with the user?
5. Offer simple error handling	J-fave Vol dn i\e e¥ el I\ii"i .itljfigiHxhlu In.yrevéilt iJii e"rmr frail. happening on your end? Is this error avoidable in the first place? If the user does make an error, how easy is it for them to fix it?
6. Permit easy reversal of actions	How uugI}' stt\>s ‹lbs II t usCr have lo take tb rev "II\cir 9ctzoi s? full tlic.used thickly rea1iZe they need to reverse tlic acttnn iit"the fist black? f[u v can'ynn n›aku your ysers deiecl Its pnssthility of great?
7. Support internal locus of control	Will the user feel in control at this specific touch point in your app? Will they be surprised in an unpleasant manner? Does the site feel easily navigable? Does the user feel safe and in control? How can you make the user feel more safe and in control?
8. Reduce short-term memory load	Are there enough visual cues here for the user to find the functionality or item? Do they have to remember things to understand what's going on? How can yotJ help the rises rccail?

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
Department of Information Technology

Rubrics for Grading 15IT304J – Web Programming Laboratory

Experiment Component	Max. Marks	Grading Rubrics		
Layout Design	2	Layout and Design, focusing alignment of content and elements in web page (demonstrates good clarity in understanding the problem statement). To Maintain the Coding Standards Commenting, Naming conventions, Portability and Creativity in design is taken care off. **[2 marks]**	Layout and Design are implemented, but lack of clarity in alignment of content to solve the given problem and lack of creativity in design (demonstrates less clarity in understanding the problem statement) and lack of coding standards. Correctness of layout design in web page is taken care off. **[1 mark]**	
Business Logic	3	Completeness of code, consistent in maintaining coding standards and best practices, usage of existing skills in new ways/learns new skills to solve the experimental problem. **[3 marks]**	Completeness of code, inconsistent in maintaining coding standards, lacks clarity in modularity, uses existing skills to solve the experimental problem. **[2 marks]**	Completeness of code, inconsistent in maintaining coding standards, lacks clarity in modularity, uses existing skills to partially solve the experimental problem. **[1 mark]**
Web Page Deployment	3	Web page is free of errors and web page design is well formatted. Demonstrates Excellent problem solving and creativity skills. **[3 marks]**	Web page is free of errors and web page design is not properly formatted. Demonstrates a clear understanding of the concepts relevant to the experiment. **[2 marks]**	Web page contains few logical errors and web page design is not formatted. Demonstrates partial understanding of the concepts relevant to the experiment. **[1 mark]**
Web page Testing	2	Web page is tested using better design and creativity and works with logical requirement **[2 marks]**	Web page works only with logical requirement and lacks good design and creativity **[1 mark]**	

Ex. No.: 1   **WEB PAGES USING HTML5**

Date:

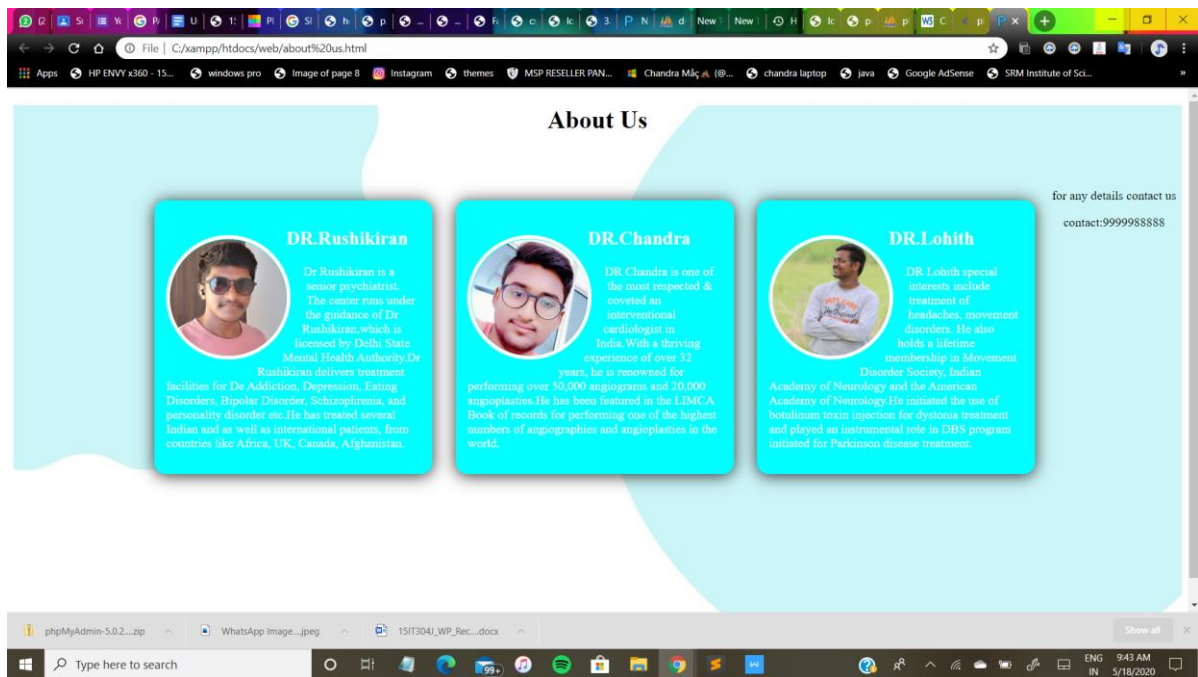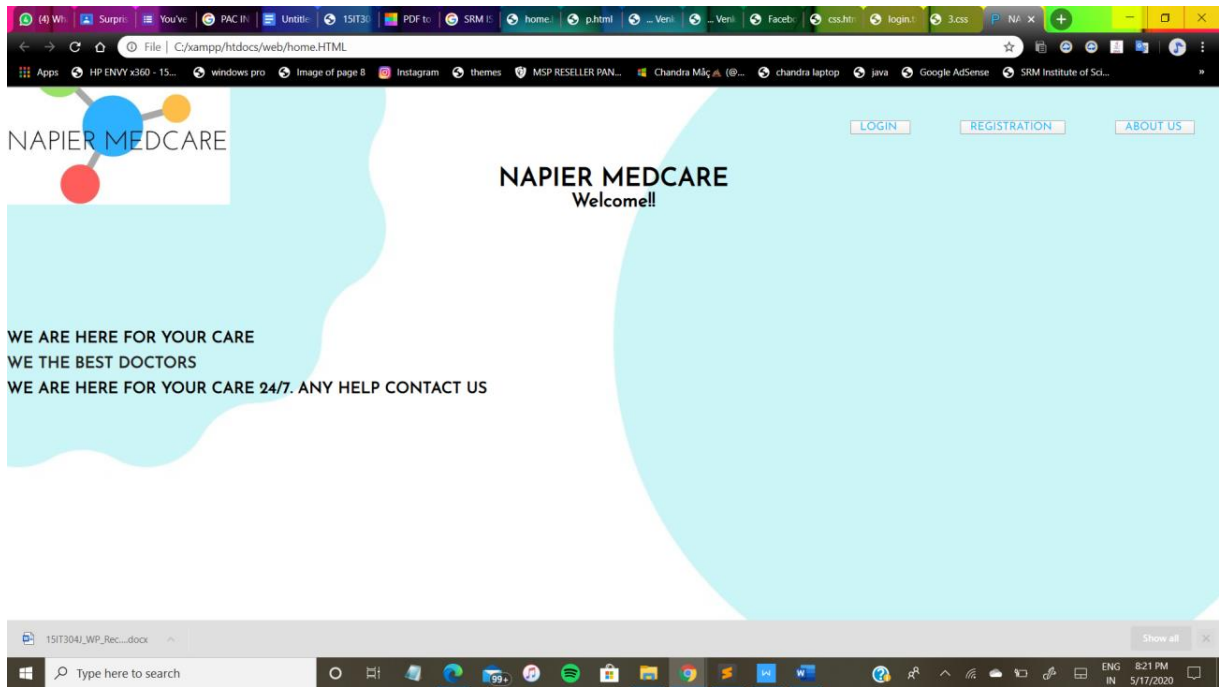**Aim**:   Creating web pages using HTML5 semantic and
             structural elements

Page Design:

                    HOME.CSS

```html
<!DOCTYPE html>
<html>
<head>
 <link rel="icon" href="https://cdn3.iconfinder.com/data/icons/letters-and-numbers-1/32/letter_P_blue-512.png"/>
    <title>NAPIER MEDCARE</title>
    <link rel="stylesheet" type="text/css" href="home.css">
    <link href="https://fonts.googleapis.com/css?family=Josefin+Sans&display=swap" rel="stylesheet">
</head>
<body>
    <header>
         <div class="mainheader">
                 <div class="logo">
                 <img src="logo.jpeg "height = 200px>

                 </div>
              <div class="nav">
              <nav>
                  <BUTTON><a href="login.html">Login</a></BUTTON>
                  <BUTTON><a href="reg.html">Registration</a></BUTTON>
                  <BUTTON><a href="about us.html">About Us</a></BUTTON>
              </nav>
              </div>
      </div>
       <center>
           <h1>NAPIER MEDCARE</h1>
            <h2>Welcome!!</h2></center>
           <main>
                  <section class="left-sec">
                  <h2> We are here for your care</h2>
                  <h1>    We the best doctors</h1>
                  <p><strong>We are here for your care 24/7. Any help contact us</strong></p>
                  </section>
           </main>
</body>
</header>
</html>
```

ABOUT.Html

```html
<!DOCTYPE html>
<html>
<head>
   <meta charset="utf-8">
        <link rel="icon" href="https://cdn3.iconfinder.com/data/icons/letters-and-numbers-1/32/letter_P_blue-512.png"/>
   <title>About us</title>
   <link rel="stylesheet" type="text/css" href="aboutus.css">
</head>
<body>
   <header>
   <h1 align="center">About Us</h1>
   <div class="wrapper">
    <div class="sin-team" alt="">
      <img src="rushi.jpeg">
      <h2>DR.Rushikiran</h2>
        <p>Dr Rushikiran is a senior psychiatrist. The center runs under the guidance of Dr Rushikiran,
   which is licensed by Delhi State Mental Health Authority.Dr Rushikiran delivers treatment facilities for
    De Addiction, Depression, Eating Disorders, Bipolar Disorder, Schizophrenia, and personality disorder
etc.He has treated several Indian and as well as international patients, from countries like Africa, UK, Canada,
Afghanistan.</p>
      </div>
      <div class="sin-team" alt="">
      <img src="chandra.jpg">
      <h2>DR.Chandra</h2>
        <p>DR Chandra is one of the most respected & coveted an interventional cardiologist in India.With
    a thriving experience of over 32 years, he is renowned for performing over 50,000 angiograms and 20,000
angioplasties.He has been featured in the LIMCA Book of records for performing one of the highest numbers
    of angiographies and angioplasties in the world.</p>
      </div>
      <div class="sin-team" alt="">
      <img src="Lohith.jpeg">
      <h2>DR.Lohith</h2>
        <p>DR Lohith special interests include treatment of headaches, movement disorders. He also holds
    a lifetime membership in Movement Disorder Society, Indian Academy of Neurology and the American
Academy of Neurology.He initiated the use of botulinum toxin injection for dystonia treatment and played
    an instrumental role in DBS program initiated for Parkinson disease treatment.</p>
      </div>
      </div>
</body>
   <div class="lower">
     <div class="footer">
     <footer >for any details contact us
        <p>contact:9999988888</p></footer>
      </div>
   </div>
   </header>
</html>
```

RESULT : The experiment has been studied and verified

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Ex. No.: 2　　　　**DESIGNING WEB PAGES USING CSS 3.0**
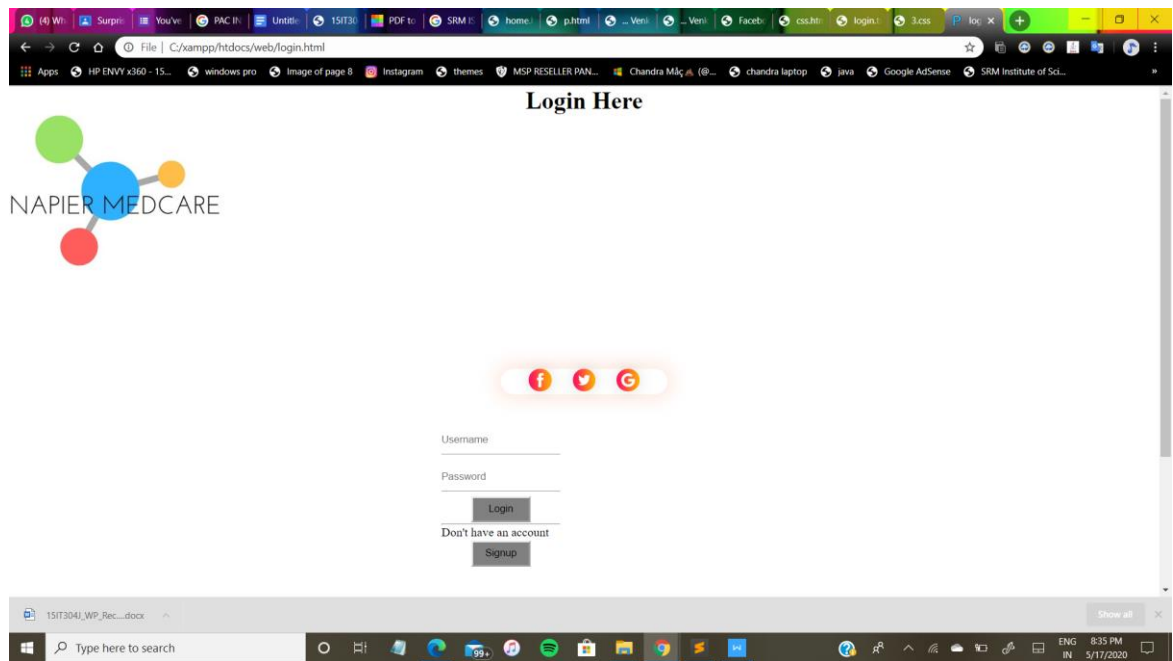
Date:

Aim: To design web pages using CSS 3.0

Page Design:

HOME.CSS

```
*{
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    font-family: 'Josefin Sans', sans-serif;
    }
header{
    width: 100%;
    height:100vh;
    background-image: url("back.jpeg");
    background-repeat: no-repeat;
    background-size: 100%;
    }
    .mainheader{
            width: 100%;
            height: 100px;
            display: flex;
            justify-content:space-between;
            align-items: center;
    }
    .mainheader.logo img{
            padding-left: 60px;
    }
    .mainheader nav{
            width: 450px;
            display: flex;
            justify-content: space-around;
            align-items: center;
            width: 500px;
            height: 90px;
    }
    .mainheader nav a{
            text-decoration: none;
            color: black;
            text-transform: uppercase;
            padding: 10px 15px ;
    font-size: 14px;
    color:        #00BFFF;
    border: none;
```

```css
background-image: background-image: linear-gradient(to right,#649bff,#0070fa,#649bff);
    border-radius: 10px;
    padding-left: 10px;
    width: 500px;
  }
main
  {
   width: 100%;
        display: flex;
        justify-content:space-between;
        align-items: center;
        text-transform: uppercase;
   }
  main.left-sec{
   padding-left: 100px;
   bottom: 0;
  left: 0;
  float: bottom;
   }
  .left-sec h2{
   bottom: 0;
    left: 0;
   font-size: 20px;
   text-transform: uppercase;
   margin-top: 150px;
  }
  .left-sec h1{
   font-size: 20px;
   text-transform: uppercase;
   font-weight: lighter;
   font-weight: 700;
   color: #242424;
   margin-top: 12px;
  }
  .left-sec p{
   font-size: 20px;
   text-transform: uppercase;
   font-weight: 700;
   margin-top: 12px;
  }
```

LOGIN.CSS

```css
*{
  margin: 0;
  padding: 0;
}
header{
  width: 100%;
  height:100vh;
  background-image: url("back.jpeg");
  background-repeat: no-repeat;
  background-size: 100%;
}
.hero{
  height: 100%;
  width: 100%;
}
.form-box{
  width: 380px;
  height: 480px;
  position: relative;
  margin: 6% auto;
  background: #fff;
  padding: 5px;
  border: 2px black;
}
.button-box{
  width: 220px;
  margin: 35px auto;
  position: relative;
  box-shadow: 0 0 20px 9px #ff61241f;
  border-radius: 30px;

}
.social-icons{
  margin: 30px auto;
  text-align: center;
}
.social-icons img{
  width: 30px;
  margin: 0 12px;
  box-shadow: 0 0 20px 0 #7f7f7f3d;
  cursor: pointer;
  border-radius: 50%;
}
.input-field{
  width: 100%;
  padding: 10px 0;
  margin: 5px 0;
  border-left: 0;
  border-top: 0;
  border-right: 0;
  border-bottom: 1px solid #999;
  outline: none;
  background: transparent;
}
.input{
  width: 50%;
  height: 10%;
  padding: 7px;
  background-color: grey;
}
```

RESULT : The experiment has been studied and verified

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Department of Information Technology

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Web page Testing	2	Web page is tested using better design and creativity and works with logical requirement **[2 marks]**	Web page works only with logical requirement and lacks good design and creativity **[1 mark]**	

Ex. No.: 3	DYNAMIC WEB PAGES WITH VALIDATION
	USING JAVASCRIPT
Date:	

Aim:

To Implement JavaScript connectivity with PHP

Procedure:

Validation.js

```
function validation()
  {
     var name = document.getElementById('firstname').value;
  if (name == "" || name == "null")
{
alert("Email should not be empty");
return false;
}
 /*var firstname = document.myform.firstname.value;
var lastname = document.myform.lastname.value;
var Email = document.myform.Email.value;
var Username = document.myform.Username.value;
var Password = document.myform.Password.value;
 var contact = document.myform.contact.value;
 var terms = document.getElementsByName("terms1[]");
   var i = 0;

 var mail = /^\w+([\.-]?\w+)*@\w+([\.-]?\w+)*(\.\w{2,3})+$/;
 var reg_pass = /^(?=.*\d)(?=.*[a-z])(?=.*[A-Z]).{4,8}$/;
var valid_firstname = /^[A-Za-z]+$/;

 if(!firstname.match(valid_fname))
 {
alert("Enter valid name");
return false;
 }
 if(!lastname.match(valid_fname))
 {
 alert("Enter valid name");
 return false;
 }
 if (Email == "" || Email == "null")
{
 alert("Email should not be empty");
  return false;
}
if(!Email.match(mail))
{
alert("Enter valid retype email");
return false;
}

 if(!Password.match(reg_pass))
{
```

```
   alert("Enter valid password, which contains Uppercase, lowercase and special char");
return false;
}

 if(Password == "" || Password == null)
{
 alert("password should not be empty");
return false;
 }

 if(isNaN(contact))
  {
alert("Enter valid contact number");
return false;
}
 if(contact == "" || contact == null || contact.length!= 10)
 {
alert("Enter valid phone number of length 10");
return false;
}*/



            </script>
```

REG.Html

```php
 <?php
      $servername = "localhost";
  $dbname = "napiermedcare";

    //create connection
$conn = new mysqli($servername, "root","",napiermedcare);
 /check connection
  if($conn->connect_error)
  {
die("connection failed : ".$conn->connect_error);
     }else{
 extract($_POST);
 if(isset($_POST['submit']))
 {
  $terms = $_POST['terms1'];
  $t1 ="";
  foreach($terms as $t)
  {
     $t1.= $t.",";
  }
}
$sql = "INSERT INTO
napier(firstname,lastname,category,Email,Username,password,Gender,contact,checkbox)
  VALUES('$firstname','$lastname','$category','$Email','$Username',
  '$password','$Gender','$contact','$checkbox')";

      if($conn->query($sql) == TRUE)
```
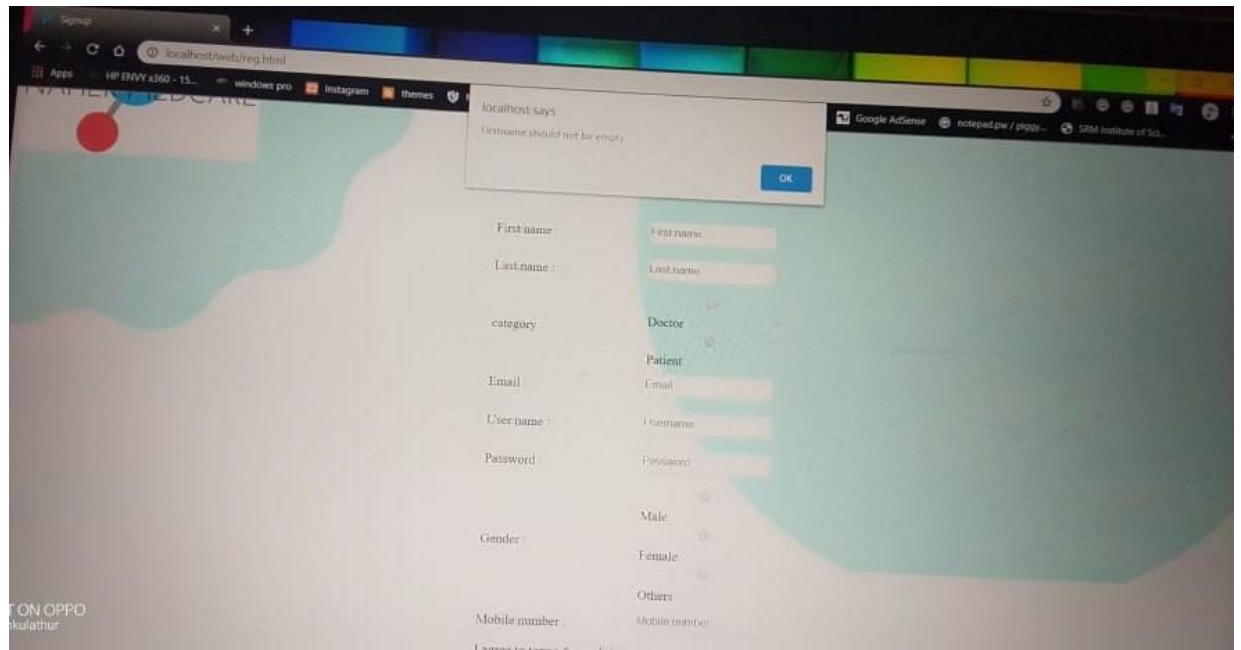
```php
 {
   header('Location:login.html');
exit();
   }else{
   header("Location : register.php?msg=failed");
exit();
   }
   }
 $conn->close();
   ?>
```

REG.CSS

```css
   header{
          width: 100%;
          height:100vh;
          background-image: url("back.jpeg");
          background-repeat: no-repeat;
          background-size: 100%;
          }
   .input-field{
          width: 100%;
          padding: 5px 0;
          margin: 5px 0;
          border-left: 0;
          border-top: 0;
          border-right: 0;
          outline: none;
          margin-bottom: 10px;
   }
   .Submit{
          width: 50%;
      height: 10%;
      padding: 7px;
      background-color: grey;
   }
```

RESULT : The experiment has been studied and verified

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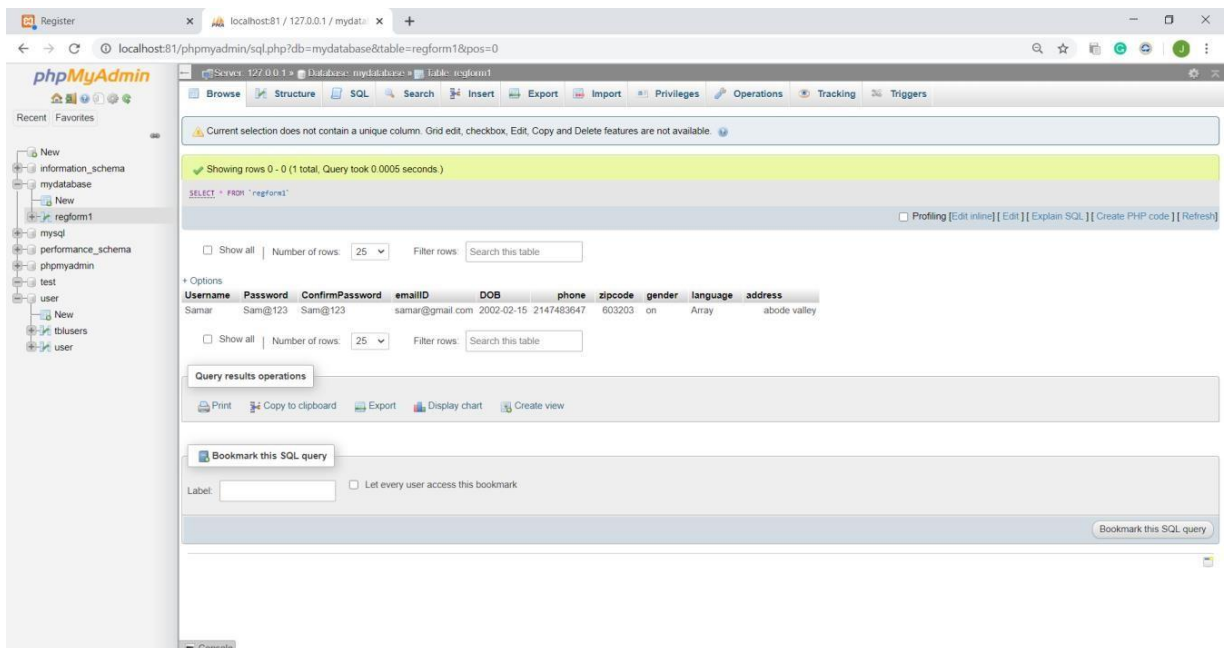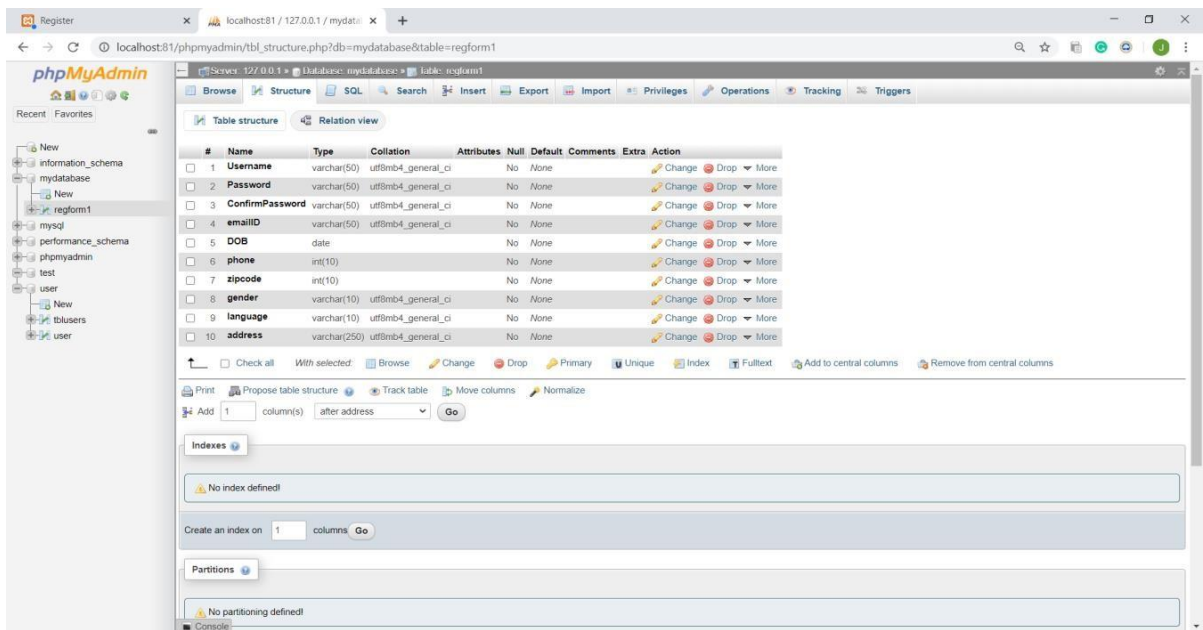**Ex. No.: 4**   **DATABASE CONNECTIVITY USING PHP**

Date:

Aim: To connect database using PHP

Database Connectivity Coding:

```php
<?php
$servername = "localhost";
$dbname = "napiermedcare";

//create connection
$conn = new mysqli($servername, "root","",napiermedcare);
//check connection
if($conn->connect_error)
{
   die("connection failed : ".$conn->connect_error);
}else{
   extract($_POST);
   if(isset($_POST['submit']))
   {
     $terms = $_POST['terms1'];
     $t1 ="";
     foreach($terms as $t)
     {
        $t1.= $t.",";
     }
   }
   $sql = "INSERT INTO
napier(firstname,lastname,category,Email,Username,password,Gender,contact,checkbox)VALUES('$firs
tname','$lastname','$category','$Email','$Username','$password','$Gender','$contact','$checkbox')";
   if($conn->query($sql) == TRUE)
   {
     header('Location:login.html');
     exit();
   }else{
     header("Location : register.php?msg=failed");
     exit();
   }
}
$conn->close();
?>
```

Result: The experiment has benn studied and verified

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Web page Testing	2	Web page is tested using better design and creativity and works with logical requirement **[2 marks]**	Web page works only with logical requirement and lacks good design and creativity **[1 mark]**	

Ex. No.: 5   **WEB PAGES WITH MENU AND NAVIGATION**

Date:

Aim:

To create webpages using menus and navigations

```
 <nav>
 <ul>
<li><a href="#">Navigation</a></li>
    <li><a href="#">Menu</a></li>
   <li><a href="#">Links</a></li>
 </ul>
 </nav>
```
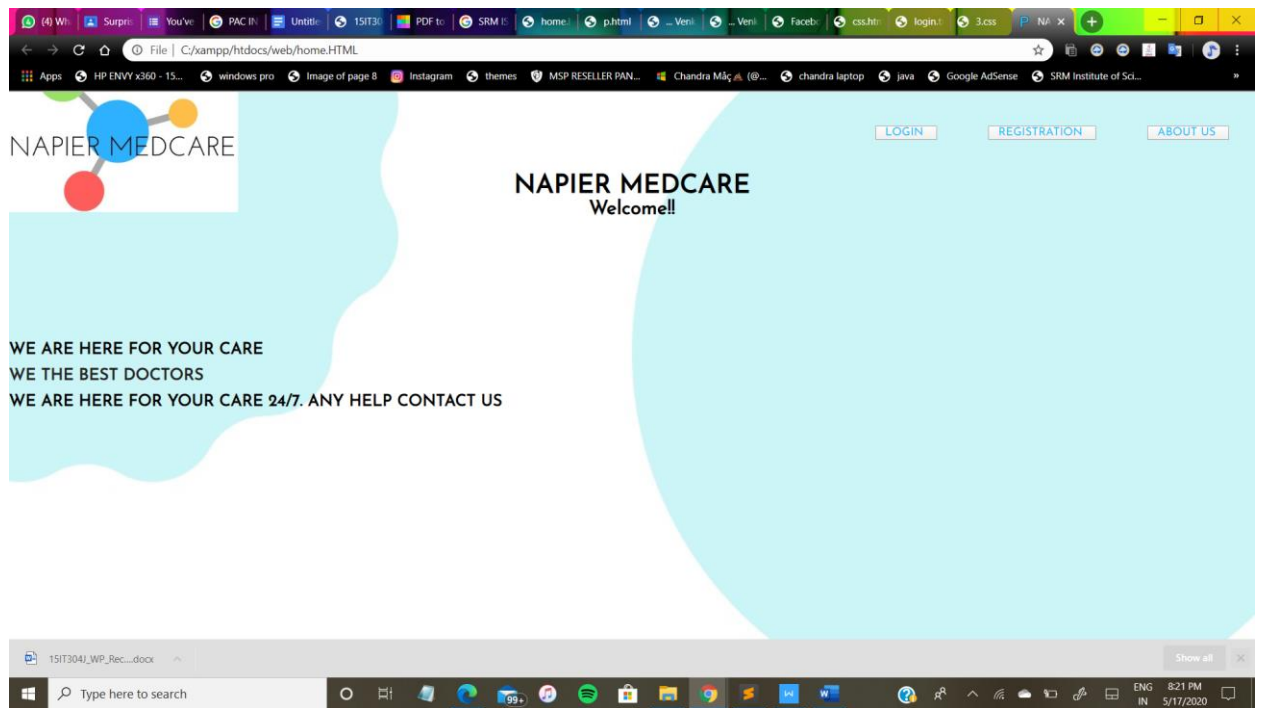
CONTACT.CSS

```
<!DOCTYPE html>
        <html lang="en" dir="ltr">
<head>
 <meta charset="utf-8">
    <title></title>
 <link rel="stylesheet" href="contact.css">
   </head>
  <body>

 <ul>
                    <li> <a href
      =choco.html>Home</a></li>
   <li> <a href =about.html>About
                      us</a></li>
```

```html
    <li> <a href =login.html>Login</a>


    </li>
    <li> <a href =gallery.html>Gallery</a>
    </li>
    <li> <a href =contact.html>Contact us</a>
    </li>
</ul>
<div class="login-box">
 <h1>Get in touch</h1>
 <div class="textbox">
  <i class="fas fa-user"></i>
  <input type="text" placeholder="Username" >
 </div>
<div class="textbox">
  <i class="fas fa-address-book"></i>
  <input type="text" placeholder="Address">
 </div>
<div class="textbox">
  <i class="fa fa-mobile"></i>
  <input type="text" placeholder="Phone no.">
 </div>
<div class="textbox">
  <i class="fas fa-globe"></i>
  <input type="text" placeholder="Website" bold>
 </div>
<div class="textbox">
  <i class="fas fa-envelope"></i>
  <input type="textarea" placeholder="Message">
 </div>
        <input type="submit" value="submit" class="sub">
        <input type="submit" value="reset" class="reset">
</div>
 </body>
<html>
```

Result:

The experiment has been studied and verified

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Department of Information Technology

Rubrics for Grading 15IT304J – Web Programming Laboratory

Experiment Component	Max. Marks	Grading Rubrics		
Layout Design	2	Layout and Design, focusing alignment of content and elements in web page (demonstrates good clarity in understanding the problem statement). To Maintain the Coding Standards Commenting, Naming conventions, Portability and Creativity in design is taken care off. **[2 marks]**	Layout and Design are implemented, but lack of clarity in alignment of content to solve the given problem and lack of creativity in design (demonstrates less clarity in understanding the problem statement) and lack of coding standards. Correctness of layout design in web page is taken care off. **[1 mark]**	
Business Logic	3	Completeness of code, consistent in maintaining coding standards and best practices, usage of existing skills in new ways/learns new skills to solve the experimental problem. **[3 marks]**	Completeness of code, inconsistent in maintaining coding standards, lacks clarity in modularity, uses existing skills to solve the experimental problem. **[2 marks]**	Completeness of code, inconsistent in maintaining coding standards, lacks clarity in modularity, uses existing skills to partially solve the experimental problem. **[1 mark]**
Web Page Deployment	3	Web page is free of errors and web page design is well formatted. Demonstrates Excellent problem solving and creativity skills. **[3 marks]**	Web page is free of errors and web page design is not properly formatted. Demonstrates a clear understanding of the concepts relevant to the experiment. **[2 marks]**	Web page contains few logical errors and web page design is not formatted. Demonstrates partial understanding of the concepts relevant to the experiment. **[1 mark]**
Web page Testing	2	Web page is tested using better design and creativity and works with logical requirement **[2 marks]**	Web page works only with logical requirement and lacks good design and creativity **[1 mark]**	

Ex. No.: 6   **IMPLEMENTING BUSINESS LOGIC**

Date:

Aim: To implement the bussiness logic for the website

The Napier medcare can be developed by using waterfall model .It describes a development method
That is linear and sequetional .it has distinct golas for each phase of development

Technologies : sublime text,xamp,notepad

CODE

Index.php

```php
    <?php
session_start()
;
$connect = mysqli_connect("localhost", "root", "", "test");

if(isset($_POST["add_to_cart"]))
{
    if(isset($_SESSION["shopping_cart"]))
    {
            $item_array_id = array_column($_SESSION["shopping_cart"], "item_id");
            if(!in_array($_GET["id"], $item_array_id))
            {


                    $count = count($_SESSION["shopping_cart"]);
                    $item_array = array(
                            'item_id'                       =>      $_GET["id"],
                            'item_name'                     =>      $_POST["hidden_name"],
                            'item_price'            =>      $_POST["hidden_price"],
                            'item_quantity'         =>      $_POST["quantity"]
                    );
                    $_SESSION["shopping_cart"][$count] = $item_array;
            }
            els
            e
            {       echo '<script>alert("Item Already Added")</script>';

    }       }
    els
    e
    {
            $item_array = array(
                    'item_id'                       =>      $_GET["id"],
                    'item_name'                     =>
                                            $_POST["hidden_name"], 'item_price'
                                            =>      $_POST["hidden_price"],
```

```php
                            'item_quantity'        =>      $_POST["quantity"]
                    );
                    $_SESSION["shopping_cart"][0] = $item_array;
            }
    }

    if(isset($_GET["action"]))
    {
            if($_GET["action"] == "delete")
            {
                    foreach($_SESSION["shopping_cart"] as $keys => $values)
                    {
                            if($values["item_id"] == $_GET["id"])
                            {
                                    unset($_SESSION["shopping_cart"][$keys
                                    ]); echo '<script>alert("Item
                                    Removed")</script>';
                                    echo '<script>window.location="index.php"</script>';
                            }
                    }
            }
    }

    ?>
```
```html
<!DOCTYPE html>
<html>
    <head
    >       <title>Sweet Treats</title>
            <script src="https://ajax.googleapis.com/ajax/libs/jquery/2.2.0/jquery.min.js"></script>
            <link rel="stylesheet"
            href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.min.css"
/>
            <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/js/bootstrap.min.js"></script>
    </head>
    <body>
            <br />

            <div class="container">
                    <br />
                    <br />
                    <br />
                    <h2 align="center"style="color:blue;">Sweet Treats </h1><br />
                    <br /><br />


                    <?php
                            $query = "SELECT * FROM tbl_product ORDER BY id ASC";
                            $result = mysqli_query($connect,
                            $query); if(mysqli_num_rows($result)
                            > 0)
                            {
                                    while($row = mysqli_fetch_array($result))
                                    {
                            ?>
                    <div class="col-md-4">
```

```
<form method="post" action="index.php?action=add&id=<?php echo $row["id"]; ?>">
<div style="border:1px solid #333; background-color:#f1f1f1; border-radius:5px; padding:16px;"
align="center">
<img src="<?php echo $row["image"]; ?>" class="img-responsive" /><br />

      <h4 class="text-info"><?php echo $row["name"]; ?></h4>

      <h4 class="text-danger">RS. <?php echo $row["price"]; ?></h4>

         <input type="text" name="quantity" value="1" class="form-control" />

         <input type="hidden" name="hidden_name" value="<?php echo $row["name"]; ?>" />

         <input type="hidden" name="hidden_price" value="<?php echo $row["price"]; ?>" />

 <input type="submit" name="add_to_cart" style="margin-top:5px;" class="btn btn-success"
  value="Add to Cart" />

                                          </div>
                                  </form>
                          </div>
                          <?php
                                          }
                                  }
                          ?>
                          <div style="clear:both"></div>
                          <br />
                          <h3>Order Details</h3>
                          <div class="table-responsive">
                                  <table class="table table-bordered">
                                          <tr>
                                                  <th width="40%">Item Name</th>
                                                  <th width="10%">Quantity</th>
                                                  <th width="20%">Price</th>
                                                  <th width="15%">Total</th>
                                                  <th width="5%">Action</th>
                                          </tr>
                                          <?ph
                                          p
                                          i                                       I       rt"]))
                                          f                                       O       {
                                          (                                       N               $total = 0;
                                          !                                       [
                                          e      foreach($_SESSION["shopping_cart"]
                                          m       as $keys => $values             s
                                          p                                       h               {
                                          t                                       o
                                          y                                       p
                                          (                                       p
                                          $                                       i
                                          _                                       n
                                          S                                       g
                                          E                                       _
                                          S       $values["item_price"], 2);?></td>
                                          S                                       a
```

```php
?>
<tr>
<td><?php echo $values["item_name"]; ?></td>
<td><?php echo $values["item_quantity"]; ?></td>
<td>RS. <?php echo $values["item_price"]; ?></td>
<td>RS. <?php echo number_format($values["item_quantity"] *
<td><a href="index.php?action=delete&id=<?php echo
```

```php
$values["item_id"]; ?>"><span class="text-danger">Remove</span></a></td>
                </tr>


        <?php
                $total = $total + ($values["item_quantity"] *
                $values["item_price"]);
            }
        ?>
        <tr>
            <td colspan="3" align="right">Total</td>
          <td align="right">RS. <?php echo number_format($total, 2);
                            ?></td>
            <td></td>
        </tr>
        <?php
        }
        ?>
```

RESULT : The experiment has been studied and verfied

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Rubrics for Grading 15IT304J – Web Programming Laboratory

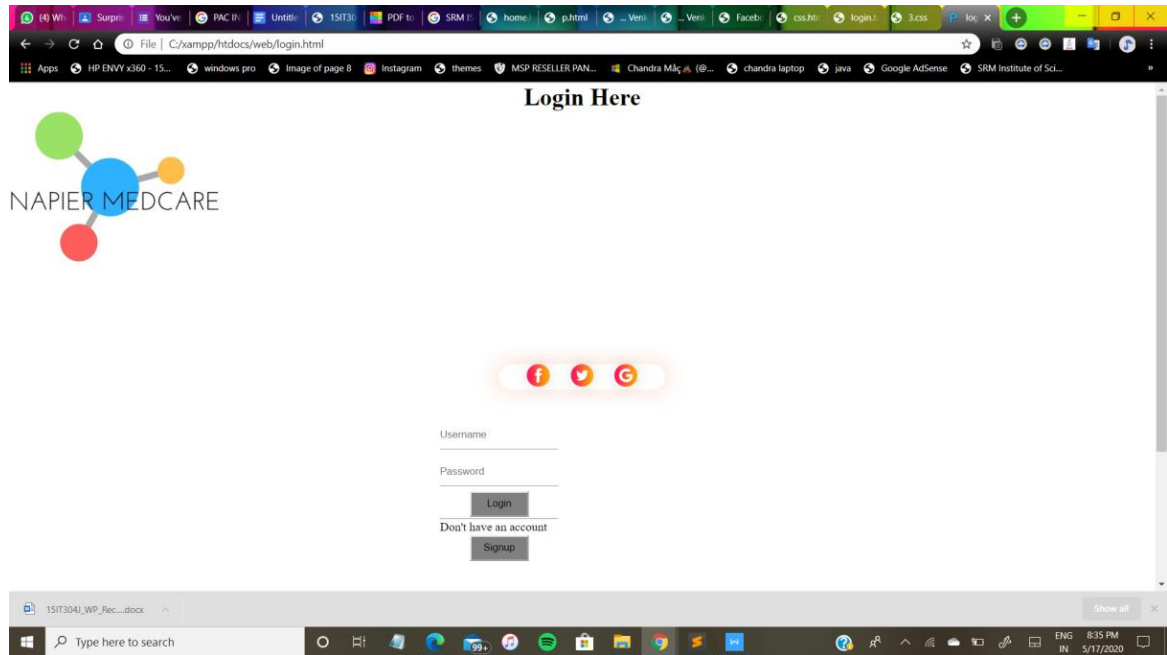| Experiment Component	Max. Marks	Grading Rubrics		
Layout Design	2	Layout and Design, focusing alignment of content and elements in web page (demonstrates good clarity in understanding the problem statement). To Maintain the Coding Standards Commenting, Naming conventions, Portability and Creativity in design is taken care off. **[2 marks]**	Layout and Design are implemented, but lack of clarity in alignment of content to solve the given problem and lack of creativity in design (demonstrates less clarity in understanding the problem statement) and lack of coding standards. Correctness of layout design in web page is taken care off. **[1 mark]**	
Business Logic	3	Completeness of code, consistent in maintaining coding standards and best practices, usage of existing skills in new ways/learns new skills to solve the experimental problem. **[3 marks]**	Completeness of code, inconsistent in maintaining coding standards, lacks clarity in modularity, uses existing skills to solve the experimental problem. **[2 marks]**	Completeness of code, inconsistent in maintaining coding standards, lacks clarity in modularity, uses existing skills to partially solve the experimental problem. **[1 mark]**
Web Page Deployment	3	Web page is free of errors and web page design is well formatted. Demonstrates Excellent problem solving and creativity skills. **[3 marks]**	Web page is free of errors and web page design is not properly formatted. Demonstrates a clear understanding of the concepts relevant to the experiment. **[2 marks]**	Web page contains few logical errors and web page design is not formatted. Demonstrates partial understanding of the concepts relevant to the experiment. **[1 mark]**
Web page Testing	2	Web page is tested using better design and creativity and works with logical requirement **[2 marks]**	Web page works only with logical requirement and lacks good design and creativity **[1 mark]**	

Ex. No.: 7   **SESSION AND COOKIES**

Date:

Aim:

   To create a webpage using session and cookies.

```html
<!DOCTYPE html>
<html>
<head>
  <link rel="icon" href="https://cdn3.iconfinder.com/data/
   icons/letters- and-numbers-1/32/letter_P_blue-512.png"/>
     <title>login </title>
     <link rel="stylesheet" type="text/css" href="login.css">
</head>
<body>
          <header>
          <div class="mainheader">
               <div class="logo">
                    <H1 align="center">Login Here</H1>
               <img src="logo.jpeg "height = 200px>
               </div>
               </div>
          <FORM ACTION="login.php" METHOD="POST">
               <div class="hero">
                    <div class="form-box">
                         <div class="button-box ">

               <div class="social-icons">
                    <nav>
               <a href="https://www.facebook.com/"><img src="fb.jpeg"></a>
               <a href="https://twitter.com/"><img src="twitter.jpeg"></a>
               <a
href="https://accounts.google.com/signin/v2/identifier?continue=https%
3A%2F%2Fmail.google.com%2Fmail%2F&service=mail&sacu=1&rip=1&
flowName=GlifWebSignIn&flowEntry=ServiceLogin"><img src="google.jpeg"></a>
          </nav>
          </div>
          </div>
               <table>
                    <tr>
                         <td><input type="text" class="input-field"
placeholder="Username" name="Username"></td>
                    </tr>
                    <tr>
                         <td><input type="Password" class="input-field"
placeholder="Password"name="Password" ></td>
                    </tr>
                    <tr>
                         <td align="center">
                              <input type="submit" name="submit"
class="input" value="Login">
                         </td>
                    </tr>
                    <tr>
                         <td>
                              <hr>Don't have an account
                         </td>
                    </tr>

               <nav>
                    <tr>
```

```
<td align="center">
                        <a href="reg.html"><input type="submit"  name="Signup"
class="input" value="Signup"></a>
                        </td>
                        </tr>
                </nav>
                </table>
            </FORM>
</div>
</div>
</body></header>
</html>
```

Result:
        The experiment has been studied and verified

```
<td align="center">
                        <a href="reg.html"><input type="submit"  name="Signup"
class="input" value="Signup"></a>
                        </td>
                        </tr>
```

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Rubrics for Grading 15IT304J – Web Programming Laboratory

Experiment Component	Max. Marks	Grading Rubrics		
Layout Design	2	Layout and Design, focusing alignment of content and elements in web page (demonstrates good clarity in understanding the problem statement). To Maintain the Coding Standards Commenting, Naming conventions, Portability and Creativity in design is taken care off. **[2 marks]**	Layout and Design are implemented, but lack of clarity in alignment of content to solve the given problem and lack of creativity in design (demonstrates less clarity in understanding the problem statement) and lack of coding standards. Correctness of layout design in web page is taken care off. **[1 mark]**	
Business Logic	3	Completeness of code, consistent in maintaining coding standards and best practices, usage of existing skills in new ways/learns new skills to solve the experimental problem. **[3 marks]**	Completeness of code, inconsistent in maintaining coding standards, lacks clarity in modularity, uses existing skills to solve the experimental problem. **[2 marks]**	Completeness of code, inconsistent in maintaining coding standards, lacks clarity in modularity, uses existing skills to partially solve the experimental problem. **[1 mark]**
Web Page Deployment	3	Web page is free of errors and web page design is well formatted. Demonstrates Excellent problem solving and creativity skills. **[3 marks]**	Web page is free of errors and web page design is not properly formatted. Demonstrates a clear understanding of the concepts relevant to the experiment. **[2 marks]**	Web page contains few logical errors and web page design is not formatted. Demonstrates partial understanding of the concepts relevant to the experiment. **[1 mark]**
Web page Testing	2	Web page is tested using better design and creativity and works with logical requirement **[2 marks]**	Web page works only with logical requirement and lacks good design and creativity **[1 mark]**	

Ex. No.: 9   SIMPLE APPLICATIONS USING SERVLETS

Date:

Aim:

   ### To create a simple application using servlets.

Code:

1. FormInput.java

```java
import java.io.*;
import java.sql.*;
import javax.servlet.ServletException;
import javax.servlet.http.*;

public class FormInput extends HttpServlet {
public void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {

response.setContentType("text/html")
; PrintWriter out =
response.getWriter();

String n=request.getParameter("name");
String p=request.getParameter("email");
String e=request.getParameter("pswd");
String c=request.getParameter("cpswd");
String d=request.getParameter("gender");
String f=request.getParameter("dob");
String g=request.getParameter("mobno");
String h=request.getParameter("visit");
String
y=request.getParameter("activity");
String
j=request.getParameter("comment");

out.println(n);
out.println(p);
out.println(e);
out.println(c);
out.println(d);
out.println(f);
out.println(g);
out.println(h);
out.println(y);
out.println(j);
out.close();
```

```
    }

    }



    2. FormInput.html

<!DOCTYPE html>
<html>
<head>
 <style>
 table,td{
 padding : 10px;
 background-color: #e6e6e6;
}
</style>
 <script src="reg form validation.js"></script>
</head>
<body>
<center>
 <form action="FormInput" method = "POST">
 <table style="border :1px solid">
<tr>
<center>
<th colspan="2">REGISTRATION FORM</th></center>
</tr>
<tr></tr><tr></tr>
<tr>
<td>NAME : </td>
 <td><input type="text" name="name" /></td>
</tr>
```

```html
<td>EMAIL ID : </td>
 <td><input type="email" name="email" /></td>
</tr>
<tr>
<td>PASSWORD :</td>
 <td><input type="password" name="pswd" /></td>
</tr>
<tr>
<td>CONFIRM PASSWORD :</td>
 <td><input type="password" name="cpswd" /></td>
</tr>
<tr>
<td>GENDER :</td>
 <td><input type="radio" name="gender" value="male" checked="checked" />MALE
 <input type="radio" name="gender" value="female" />FEMALE</td>
</tr>
<tr>
<td>DATE OF BIRTH :</td>
 <td><input type="date" name="dob" /></td>
</tr>
<tr>
<td>MOBILE NO :</td>
 <td><input type="text" name="mobno" /></td>
<tr>
<td>Would you visit us again:</td>
 <td><input type="radio" name="visit" value="yes" checked="checked" />Yes
 <input type="radio" name="visit" value="no" />No
 <input type="radio" name="visit" value="maybe" />Maybe
</td>

<tr>
<td>Service you prefer more from us ?</td>
 <td><select name="activity">
 <option value="App Development">App Development</option>
 <option value="Web Development">Web Development</option>
<option value="SEO">SEO</option>
<option value="UI/UX">UI/UX</option>
 <option value="Marketing">Marketing</option>
</select>
</td>
<tr>
<td>COMMENTS : </td>
```

```
<td><textarea cols="20" rows="4"></textarea></td>
</tr>
<tr>

 <td colspan="2" align="center"><input type="submit" value="SUBMIT" ></td>
</tr>
</table>
</form>
</center>
</body>
```

3. Web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app>

<servlet>
<servlet-name>FormInput</servlet-name>
<servlet-class>FormInput</servlet-class>
</servlet>

<servlet-mapping>
<servlet-name>FormInput</servlet-name>
<url-pattern>/FormInput</url-pattern>
</servlet-mapping>

<welcome-file-list>
<welcome-file>FormInput.html</welcome-file>
</welcome-file-list>

</web-app>
```

RESULT : The experiment has been verified and studied

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Department of Information Technology

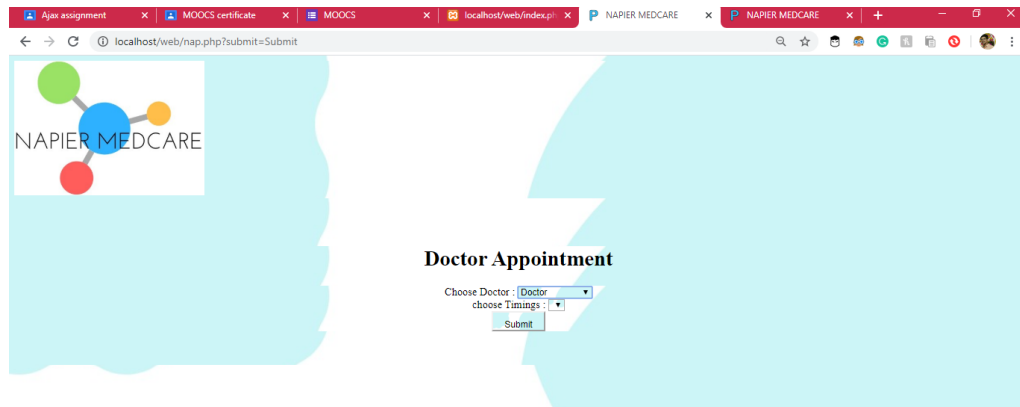## Rubrics for Grading 15IT304J – Web Programming Laboratory

Experiment Component	Max. Marks	Grading Rubrics		
Layout Design	2	Layout and Design, focusing alignment of content and elements in web page (demonstrates good clarity in understanding the problem statement). To Maintain the Coding Standards Commenting, Naming conventions, Portability and Creativity in design is taken care off. **[2 marks]**	Layout and Design are implemented, but lack of clarity in alignment of content to solve the given problem and lack of creativity in design (demonstrates less clarity in understanding the problem statement) and lack of coding standards. Correctness of layout design in web page is taken care off. **[1 mark]**	
Business Logic	3	Completeness of code, consistent in maintaining coding standards and best practices, usage of existing skills in new ways/learns new skills to solve the experimental problem. **[3 marks]**	Completeness of code, inconsistent in maintaining coding standards, lacks clarity in modularity, uses existing skills to solve the experimental problem. **[2 marks]**	Completeness of code, inconsistent in maintaining coding standards, lacks clarity in modularity, uses existing skills to partially solve the experimental problem. **[1 mark]**
Web Page Deployment	3	Web page is free of errors and web page design is well formatted. Demonstrates Excellent problem solving and creativity skills. **[3 marks]**	Web page is free of errors and web page design is not properly formatted. Demonstrates a clear understanding of the concepts relevant to the experiment. **[2 marks]**	Web page contains few logical errors and web page design is not formatted. Demonstrates partial understanding of the concepts relevant to the experiment. **[1 mark]**
Web page Testing	2	Web page is tested using better design and creativity and works with logical requirement **[2 marks]**	Web page works only with logical requirement and lacks good design and creativity **[1 mark]**	

Ex. No.: 10	**SIMPLE APPLICATIONS USING JSP AND AJAX**
Date:	

Aim: **To create a simple application using PHP and AJAX**

Index.php:
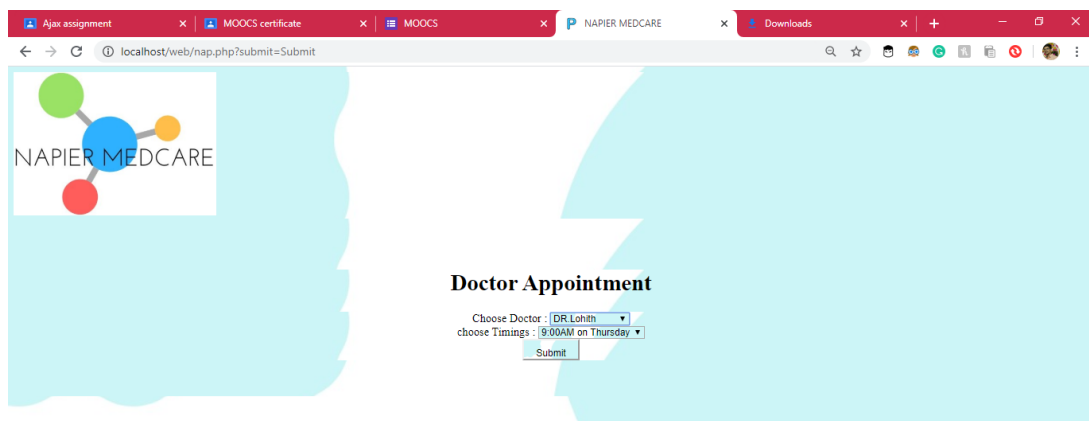
```
<!DOCTYPE html>
<html>
<head>
        <link rel="icon" href="https://cdn3.iconfinder.com/data/icons/letters-and-numbers-1/32/letter_P_blue-
512.png"/>
        <title class="title">NAPIER MEDCARE</title>
        <link rel="stylesheet" type="text/css" href="nap.css">
        <img src="logo.jpeg "height = 200px>
</head>
<body>
        <center>
        <div class="container">
                <div class="row">
                        <div class="col-lg-12">
                                <h1>Doctor Appointment</h1>
                                <form>
                                        <div class="input-group">

                        <tr>
                                <td> Choose Doctor : </td>
                                <td><select class="form-control" onchange="myfun(this.value)">
                                        <option>Doctor</option>
                                        <option>DR.Lohith</option>
                                        <option>DR.Rushikiran</option>
                                        <option>DR.Chandra</option>
                                </select></td>
                        </tr>
                        <br>
                        <tr>
                                <td> choose Timings : </td>
                                <td><select class="form-control" id="Timings">
                                        <option>Timings </option>
                                </select></td>
                        </tr>
                        <br>
                        <tr>
                                <td><input type="submit" name="submit" width="50px" height="70px"
class="submit"></td>
                        </tr>
                </table>
                                        </div>
                                </form>
                        </div>

                </div>
        </div>

</center>
<script type="text/javascript">
```

2

```
        function myfun(data)
        {
                var req = new XMLHttpRequest();
                req.open("GET","http://localhost/web/response.php?datavalue="+data,true);
                req.send();


                req.onreadystatechange=function(){
                        if (req.readyState==4 && req.status==200) {
                                document.getElementById("Timings").innerHTML = req.responseText;
                        }
                };

        }
</script>
</body>
</html>
```

Index.css:

```
* {


        background-image: url("back.jpeg");
        background-repeat: no-repeat;
        background-size: 100%;
}
.title{
        position: absolute;
}
.container{
        padding: 50px 0;
}
 .input-field {

        height: 50px;
        width: 100px;
        padding: 10px 10px;
        margin: 10px 0;
        border-left: 0;
        border-top: 0;
        border-right: 0;
        outline: none;
        margin-bottom: 10px;
        justify-content: space-between;
}
.submit
{
        height: 30px;
        width: 80px;
        padding: 10px;
        justify-content: space-around;
}
```

Response.php:

```
<?php

$data = $_GET['datavalue'];
```

```php
$a = array('9:00AM on Thursday','4:00PM on Friday','5:00PM on Saturday');
$b = array('10:00AM on Monday','2:00PM on Wednesday','10:00AM on Sunday');
$c = array('8:00AM on Thursday','10:00AM on Friday','9:00PM on Saturday');


if ($data == "DR.Lohith") {
        foreach($a as $aone){
                echo "<option> $aone </option>";
        }
}

if ($data == "DR.Rushikiran") {
        foreach($b as $bone){
                echo "<option> $bone </option>";
        }
}

if ($data == "DR.Chandra") {
        foreach($c as $cone){
                echo "<option> $cone </option>";
        }
}


?>
```

RESULT :

The experiment has been verified and studied

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Rubrics for Grading 15IT304J – Web Programming Laboratory

Experiment Component	Max. Marks	Grading Rubrics		
Layout Design	2	Layout and Design, focusing alignment of content and elements in web page (demonstrates good clarity in understanding the problem statement). To Maintain the Coding Standards Commenting, Naming conventions, Portability and Creativity in design is taken care off. **[2 marks]**	Layout and Design are implemented, but lack of clarity in alignment of content to solve the given problem and lack of creativity in design (demonstrates less clarity in understanding the problem statement) and lack of coding standards. Correctness of layout design in web page is taken care off. **[1 mark]**	
Business Logic	3	Completeness of code, consistent in maintaining coding standards and best practices, usage of existing skills in new ways/learns new skills to solve the experimental problem. **[3 marks]**	Completeness of code, inconsistent in maintaining coding standards, lacks clarity in modularity, uses existing skills to solve the experimental problem. **[2 marks]**	Completeness of code, inconsistent in maintaining coding standards, lacks clarity in modularity, uses existing skills to partially solve the experimental problem. **[1 mark]**
Web Page Deployment	3	Web page is free of errors and web page design is well formatted. Demonstrates Excellent problem solving and creativity skills. **[3 marks]**	Web page is free of errors and web page design is not properly formatted. Demonstrates a clear understanding of the concepts relevant to the experiment. **[2 marks]**	Web page contains few logical errors and web page design is not formatted. Demonstrates partial understanding of the concepts relevant to the experiment. **[1 mark]**
Web page Testing	2	Web page is tested using better design and creativity and works with logical requirement **[2 marks]**	Web page works only with logical requirement and lacks good design and creativity **[1 mark]**	

Ex. No.: 12   **APPLICATION FOR WEB SERVICES**

Date:

Aim: **To create an application for web services**

Code:

TemperatureConverter.java
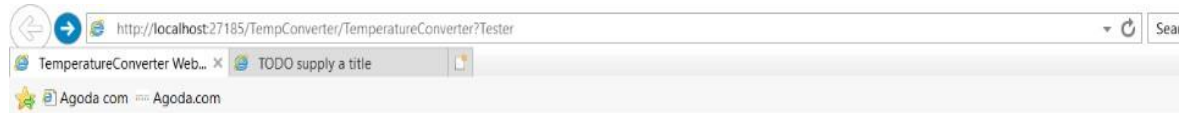
```java
package com.unique;
import
javax.jws.WebService;
import
javax.jws.WebMethod;
import
javax.jws.WebParam;
/**
 *
 * @author jasprit
 */
@WebService(serviceName =
"TemperatureConverter") public class
TemperatureConverter {
  /**
   * Web service operation
   */
  @WebMethod(operationName = "FahtoCelcius")
  public float FahtoCelcius(@WebParam(name = "temp") float
    temp) { float result=(temp-32)*5/9;
    return result;
  }
  /**
   * Web service operation
   */
  @WebMethod(operationName = "CelciusTofah")
  public float CelciusTofah(@WebParam(name = "temp") float
    temp) { float result=temp*9/5+32;
    return result;
  }
}
```

Temperature.java

```java
import
com.unique.TemperatureConverter_Service;
import java.io.IOException;
import java.io.PrintWriter;
import
javax.servlet.ServletException;
import
javax.servlet.http.HttpServlet;
import
javax.servlet.http.HttpServletRequest;
import
javax.servlet.http.HttpServletResponse;
import javax.xml.ws.WebServiceRef;
```

```java
/*** @author jasprit
 */
public class Temperature extends HttpServlet {
    @WebServiceRef(wsdlLocation = "WEB-
    INF/wsdl/TemperatureConverter.wsdl") private
    TemperatureConverter_Service service;

    /**
     * Processes requests for both HTTP <code>GET</code> and <code>POST</code>
     * methods.
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    protected void processRequest(HttpServletRequest request, HttpServletResponse
            response) throws ServletException, IOException {
        response.setContentType("text/html;charset=UT
        F-8"); try (PrintWriter out =
        response.getWriter()) {
            float

            temp=Float.parseFloat(request.getParameter("txt1")

            ); String btn=request.getParameter("b1");

            if(btn.equals("Fahrenheit"))
            {
                out.print("Temperature in Fahrenheit : "+celciusTofah(temp));
            }
            if(btn.equals("Celcius"))
            {
                out.print("Temperature in Celcius :"+ fahtoCelcius(temp));
            }
        }
    }

    // <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left
to edit the code.">
    /**
     * Handles the HTTP <code>GET</code> method.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    @Overri
    de
    protected void doGet(HttpServletRequest request, HttpServletResponse
            response) throws ServletException, IOException {
        processRequest(request, response);
```

```java
    }

    /**
     * Handles the HTTP <code>POST</code> method.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    @Override
    protected void doPost(HttpServletRequest request,
            HttpServletResponse response) throws ServletException,
            IOException {
        processRequest(request, response);
    }
    /**
     * Returns a short description of the servlet.
     * @return a String containing servlet description
     */
    @Overr
    ide
    public String
        getServletInfo() {
        return "Short
        description";
    }// </editor-fold>

    private float celciusTofah(float temp) {
        // Note that the injected javax.xml.ws.Service reference as well as port objects are not thread safe.
        // If the calling of port operations may lead to race condition some
        synchronization is required. com.unique.TemperatureConverter port =
        service.getTemperatureConverterPort();
        return port.celciusTofah(temp);
    }

    private float fahtoCelcius(float temp) {
        // Note that the injected javax.xml.ws.Service reference as well as port objects are not thread safe.
        // If the calling of port operations may lead to race condition some
        synchronization is required. com.unique.TemperatureConverter port =
        service.getTemperatureConverterPort();
        return port.fahtoCelcius(temp);
    }
}
```

Index.html

```html
<!DOCTYPE html>
<!--
To change this license header, choose License Headers in Project Properties.
To change this template file, choose Tools |
Templates and open the template in the
```

```
editor.
-->
<html>
  <head>
    <title>TODO supply a title</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
    <form action="Temperature">
      Enter Temperature : <input type="text" name="txt1" value="" /><br><br>
      <input type="submit" value="Fahrenheit" name="b1"/> 
       <input type="submit" value="Celcius" name="b1"/>
    </form>
  </body>
<html>
```

Result: An application with web services was successfully created.