

Pimpri Chinchwad College of Engineering, Pune

ASSIGNMENT NO - 7

Department – Computer Engineering

Semester – V

Academic Year- 2021-22

Subject – Web Technology

By-

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Roll No - TECOC380

Class-TE C

Name- Varunraj Vijay Tipugade

Roll Number- TECOC380

Title- Build a dynamic web application using PHP and MySQL.

- a. Create database tables in MySQL and create connection with PHP.
- b. Create the add, update, delete and retrieve functions in the PHP web app interacting with MySQL database

Code:

1. Config.php

```
<?php
   /* Database credentials. Assuming you are running MySQL
   server with default setting (user 'root' with no password) */
   define('DB_SERVER', 'localhost');
   define('DB_USERNAME', 'root');
   define('DB_PASSWORD', ");
   define('DB_NAME', 'wt4');
    $link = mysqli_connect(DB_SERVER, DB_USERNAME, DB_PASSWORD, DB_NAME);
   if($link === false){
      die("ERROR: Could not connect. " . mysqli_connect_error());
   }
   ?>
2. Index.php
   <!DOCTYPE html>
   <html lang="en">
   <head>
      <meta charset="UTF-8">
      <title>Dashboard</title>
      link
                                                                                    rel="stylesheet"
   href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
               rel="stylesheet"
      link
                                  href="https://maxcdn.bootstrapcdn.com/font-awesome/4.7.0/css/font-
   awesome.min.css">
      <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
      <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
```

```
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
  <style>
     .wrapper{
       width: 600px;
       margin: 0 auto;
    table tr td:last-child{
       width: 120px;
     }
  </style>
  <script>
     $(document).ready(function(){
       $('[data-toggle="tooltip"]').tooltip();
     });
  </script>
</head>
<body>
  <div class="wrapper">
     <div class="container-fluid">
       <div class="row">
         <div class="col-md-12">
            <div class="mt-5 mb-3 clearfix">
              <h2 class="pull-left">Students Details</h2>
              <a href="create.php" class="btn btn-success pull-right"><i class="fa fa-plus"></i> Add
New Student</a>
            </div>
            <?php
            // Include config file
            require_once "config.php";
```

```
// Attempt select query execution
          $sql = "SELECT * FROM student";
          if($result = mysqli_query($link, $sql)){
            if(mysqli_num_rows(sresult) > 0)
              echo '';
               echo "<thead>";
                  echo "";
                                                              echo
                                                                          "Roll
No";
                   echo "Name";
                    echo "Marks";
                                                              echo
"Customize";
                 echo "";
               echo "</thead>";
               echo "";
               while($row = mysqli_fetch_array($result)){
                 echo "":
                   echo "" . $row['roll'] . "";
                   echo "" . $row['name'] . "";
                    echo "" . $row['mark'] . "";
                    echo "";
                     echo '<a href="update.php?id='. $row['roll'] ."" class="mr-3" title="Update
Record" data-toggle="tooltip"><span class="fa fa-pencil"></span></a>';
                     echo '<a href="delete.php?id='. $row['roll'] ."" title="Delete Record" data-
toggle="tooltip"><span class="fa fa-trash"></span></a>';
                   echo "";
                 echo "";
               echo "";
              echo "";
```

```
// Free result set
                    mysqli_free_result($result);
                  } else{
                    echo '<div class="alert alert-danger"><em>No records were found.</em></div>';
                  }
                } else{
                  echo "Oops! Something went wrong. Please try again later.";
                }
                // Close connection
                mysqli_close($link);
                ?>
             </div>
           </div>
         </div>
      </div>
    </body>
    </html>
3. Create.php
<?php
// Include config file
require_once "config.php";
// Define variables and initialize with empty values
$roll = $name = $mark = "";
$roll_err = $name_err = $mark_err = "";
// Processing form data when form is submitted
if($_SERVER["REQUEST_METHOD"] == "POST"){
        $input_roll = trim($_POST["roll"]);
```

Roll Number- TECOC380

Name- Varunraj Vijay Tipugade

```
if(empty($input_roll)){
     $roll_err = "Please enter Roll Number.";
  } elseif(!ctype_digit($input_roll)){
     $roll_err = "Please enter a positive integer value.";
  } else{
    $roll = $input_roll;
  }
  $input_name = trim($_POST["name"]);
  if(empty($input_name)){
     $name_err = "Please enter a Name.";
                      elseif(!filter_var($input_name,
                                                                       FILTER_VALIDATE_REGEXP,
array("options"=>array("regexp"=>"/^[a-zA-Z\s]+$/")))
    $name_err = "Please enter a valid name.";
  } else{
     $name = $input_name;
  }
  $input_mark = trim($_POST["mark"]);
  if(empty($input_mark)){
     $mark_err = "Please enter the Marks.";
  } elseif(!ctype_digit($input_mark)){
     $mark_err = "Please enter a positive integer value.";
  } else{
    $mark = $input_mark;
  }
  // Check input errors before inserting in database
  if(empty(\$name\_err) \&\& \ empty(\$roll\_err) \&\& \ empty(\$mark\_err)) \{\\
    // Prepare an insert statement
```

```
$sql = "INSERT INTO student (roll, name, mark) VALUES (?, ?, ?)";
  if($stmt = mysqli_prepare($link, $sql)){
    // Bind variables to the prepared statement as parameters
    mysqli_stmt_bind_param($stmt, "sss", $param_roll, $param_name, $param_mark);
    // Set parameters
                     $param_roll = $roll;
    $param_name = $name;
    $param_mark = $mark;
    // Attempt to execute the prepared statement
    if(mysqli_stmt_execute($stmt)){
       // Records created successfully. Redirect to landing page
       header("location: index.php");
       exit();
     } else{
       echo "Oops! Something went wrong. Please try again later.";
     }
  // Close statement
  mysqli_stmt_close($stmt);
}
// Close connection
mysqli_close($link);
```

}

?>

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Create Record</title>
  k rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <style>
    . wrapper \{\\
       width: 600px;
       margin: 0 auto;
    }
  </style>
</head>
<body>
  <div class="wrapper">
    <div class="container-fluid">
       <div class="row">
         <div class="col-md-12">
           <h2 class="mt-5">Create Record</h2>
           Please fill this form and submit to add employee record to the database.
                      action="<?php
                                                 htmlspecialchars($_SERVER["PHP_SELF"]);
                                                                                                 ?>"
           <form
                                        echo
method="post">
              <div class="form-group">
                <label>Roll No</label>
                <input type="text" name="roll" class="form-control <?php echo (!empty($roll_err)) ? 'is-</pre>
invalid': "; ?>"><?php echo $roll; ?>
                <span class="invalid-feedback"><?php echo $roll_err;?></span>
              </div>
                                              <div class="form-group">
                <label>Name</label>
```

```
<input type="text" name="name" class="form-control <?php echo (!empty($name_err))</pre>
? 'is-invalid' : "; ?>" value="<?php echo $name; ?>">
                <span class="invalid-feedback"><?php echo $name_err;?></span>
              </div>
              <div class="form-group">
                <label>Marks</label>
                <input type="text" name="mark" class="form-control <?php echo (!empty($mark_err)) ?</pre>
'is-invalid': "; ?>"><?php echo $mark; ?>
                <span class="invalid-feedback"><?php echo $mark_err;?></span>
              </div>
              <input type="submit" class="btn btn-primary" value="Submit">
              <a href="index.php" class="btn btn-secondary ml-2">Cancel</a>
           </form>
         </div>
       </div>
    </div>
  </div>
</body>
</html>
4. Delete.php
<?php
// Include config file
require_once "config.php";
// Define variables and initialize with empty values
$name = $mark = "";
$name_err = $mark_err = "";
// Processing form data when form is submitted
if(isset($_POST["id"]) && !empty($_POST["id"])){
  // Get hidden input value
                                                                         Roll Number- TECOC380
Name- Varunraj Vijay Tipugade
```

```
$id = $_POST["id"];
  // Validate name
  $input_name = trim($_POST["name"]);
  if(empty($input_name)){
    $name_err = "Please enter a name.";
                     elseif(!filter_var($input_name,
                                                                    FILTER_VALIDATE_REGEXP,
array("options"=>array("regexp"=>"/^[a-zA-Z\s]+$/")))
    $name_err = "Please enter a valid name.";
  } else{
    $name = $input_name;
  }
  $input_mark = trim($_POST["mark"]);
  if(empty($input_mark)){
    $mark_err = "Please enter the marks amount.";
  } elseif(!ctype_digit($input_mark)){
    $mark_err = "Please enter a positive integer value.";
  } else{
    $mark = $input_mark;
  }
  // Check input errors before inserting in database
  if(empty($name_err) && empty($mark_err)){
    // Prepare an update statement
    $sql = "UPDATE student SET name=?, mark=? WHERE roll=?";
    if($stmt = mysqli_prepare($link, $sql)){
       // Bind variables to the prepared statement as parameters
       mysqli_stmt_bind_param($stmt, "ssi", $param_name, $param_mark, $param_id);
```

```
// Set parameters
       $param_name = $name;
       $param_mark = $mark;
       $param_id = $id;
       // Attempt to execute the prepared statement
       if(mysqli_stmt_execute($stmt)){
         // Records updated successfully. Redirect to landing page
         header("location: index.php");
         exit();
       } else{
         echo "Oops! Something went wrong. Please try again later.";
       }
    // Close statement
    mysqli_stmt_close($stmt);
  }
  // Close connection
  mysqli_close($link);
} else{
  // Check existence of id parameter before processing further
  if(isset($_GET["id"]) && !empty(trim($_GET["id"]))){
    // Get URL parameter
    $id = trim($_GET["id"]);
    // Prepare a select statement
    $sql = "SELECT * FROM student WHERE roll = ?";
```

```
if($stmt = mysqli_prepare($link, $sql)){
  // Bind variables to the prepared statement as parameters
  mysqli_stmt_bind_param($stmt, "i", $param_id);
  // Set parameters
  $param_id = $id;
  // Attempt to execute the prepared statement
  if(mysqli_stmt_execute($stmt)){
     $result = mysqli_stmt_get_result($stmt);
     if(mysqli_num_rows($result) == 1){
       /* Fetch result row as an associative array. Since the result set
       contains only one row, we don't need to use while loop */
       $row = mysqli_fetch_array($result, MYSQLI_ASSOC);
       // Retrieve individual field value
       $name = $row["name"];
       $mark = $row["mark"];
     } else{
       // URL doesn't contain valid id. Redirect to error page
       header("location: error.php");
       exit();
     }
  } else{
     echo "Oops! Something went wrong. Please try again later.";
  }
```

```
// Close statement
    mysqli_stmt_close($stmt);
    // Close connection
    mysqli_close($link);
  } else{
    // URL doesn't contain id parameter. Redirect to error page
    header("location: error.php");
    exit();
  }
?>
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Update Record</title>
  k rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <style>
    .wrapper{
       width: 600px;
       margin: 0 auto;
    }
  </style>
</head>
<body>
  <div class="wrapper">
    <div class="container-fluid">
       <div class="row">
```

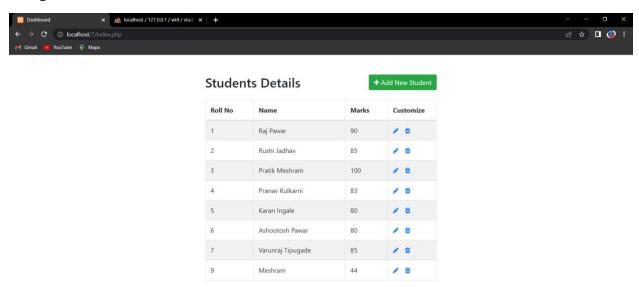
```
<div class="col-md-12">
           <h2 class="mt-5">Update Record</h2>
           Please edit the input values and submit to update the employee record.
           <form action="<?php echo htmlspecialchars(basename($_SERVER['REQUEST_URI'])); ?>"
method="post">
              <div class="form-group">
                <label>Name</label>
                <input type="text" name="name" class="form-control <?php echo (!empty($name_err))</pre>
? 'is-invalid' : "; ?>" value="<?php echo $name; ?>">
                <span class="invalid-feedback"><?php echo $name_err;?></span>
              </div>
              <div class="form-group">
                <label>Marks</label>
                <input type="text" name="mark" class="form-control <?php echo (!empty($mark_err)) ?</pre>
'is-invalid': "; ?>" value="<?php echo $mark; ?>">
                <span class="invalid-feedback"><?php echo $mark_err;?></span>
              </div>
              <input type="hidden" name="id" value="<?php echo $id; ?>"/>
              <input type="submit" class="btn btn-primary" value="Submit">
              <a href="index.php" class="btn btn-secondary ml-2">Cancel</a>
           </form>
         </div>
       </div>
    </div>
  </div>
</body>
</html>
```

5. Update.php

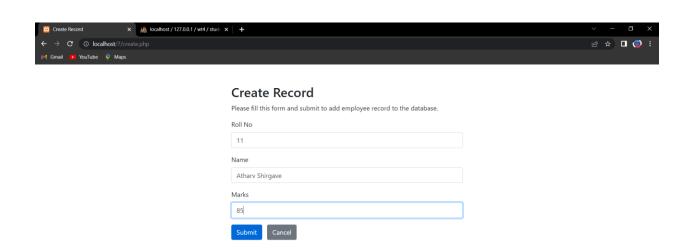
```
<?php
// Process delete operation after confirmation
if(isset($_POST["id"]) && !empty($_POST["id"])){
  // Include config file
  require_once "config.php";
  // Prepare a delete statement
  $sql = "DELETE FROM student WHERE roll = ?";
  if($stmt = mysqli_prepare($link, $sql)){
    // Bind variables to the prepared statement as parameters
    mysqli_stmt_bind_param($stmt, "i", $param_id);
    // Set parameters
     $param_id = trim($_POST["id"]);
    // Attempt to execute the prepared statement
     if(mysqli_stmt_execute($stmt)){
       // Records deleted successfully. Redirect to landing page
       header("location: index.php");
       exit();
     } else{
       echo "Oops! Something went wrong. Please try again later.";
  // Close statement
  mysqli_stmt_close($stmt);
  // Close connection
  mysqli_close($link);
} else{
  // Check existence of id parameter
  if(empty(trim($_GET["id"]))){
    // URL doesn't contain id parameter. Redirect to error page
```

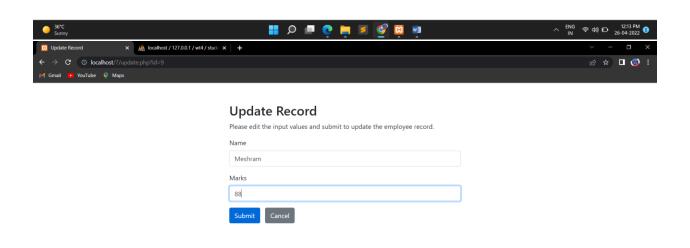
```
header("location: error.php");
    exit();
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Delete Record</title>
  k rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <style>
    .wrapper{
      width: 600px;
      margin: 0 auto;
    }
  </style>
</head>
<body>
  <div class="wrapper">
    <div class="container-fluid">
      <div class="row">
         <div class="col-md-12">
           <h2 class="mt-5 mb-3">Delete Record</h2>
                     action="<?php
                                               htmlspecialchars($_SERVER["PHP_SELF"]);
                                                                                               ?>"
           <form
                                       echo
method="post">
             <div class="alert alert-danger">
                <input type="hidden" name="id" value="<?php echo trim($_GET["id"]); ?>"/>
                Are you sure you want to delete this Student record?
                >
```

Output:

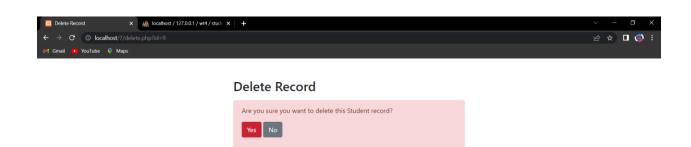


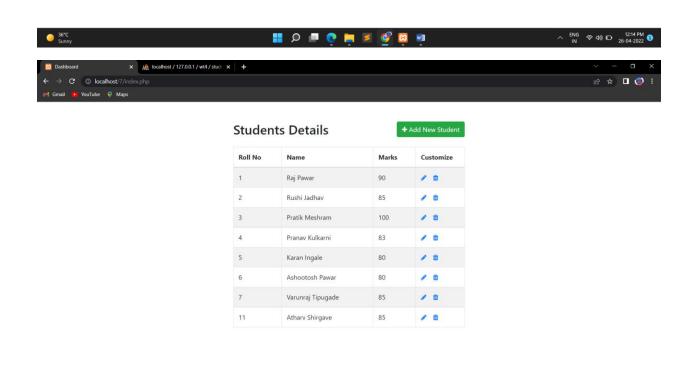












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