



Pimpri Chinchwad College of Engineering, Pune

ASSIGNMENT NO – 7

Department – Computer Engineering

Semester – V

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Subject – Web Technology

By-

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Class- TE C

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">

    <link    rel="stylesheet"    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, $sql)){
    if(mysqli_num_rows($result) > 0){
        echo '<table class="table table-bordered table-striped">';
        echo "<thead>";
        echo "<tr>";
        echo "                                "<th>Roll
No</th>";
        echo "<th>Name</th>";
        echo "<th>Marks</th>";
        echo
        "<th>Customize</th>";
        echo "</tr>";
        echo "</thead>";
        echo "<tbody>";
        while($row = mysqli_fetch_array($result)){
            echo "<tr>";
            echo "<td>" . $row['roll'] . "</td>";
            echo "<td>" . $row['name'] . "</td>";
            echo "<td>" . $row['mark'] . "</td>";
            echo "<td>";
            echo '<a href="update.php?id='.$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 "</td>";
            echo "</tr>";
        }
        echo "</tbody>";
        echo "</table>";

```

```

        // 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"]);

```

```

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>

    <link 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>

                    <p>Please fill this form and submit to add employee record to the database.</p>

                    <form    action="<?php    echo    htmlspecialchars($_SERVER["PHP_SELF"]);    ?>"
method="post">

                        <div class="form-group">

                            <label>Roll No</label>

                            <input type="text" name="roll" class="form-control <?php echo (!empty($roll_err)) ? 'is-
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))
? '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)) ?
'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

```

```

$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>
    <link 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>

    <p>Please edit the input values and submit to update the employee record.</p>

    <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))
? '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)) ?
'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>
    <link 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>
                    <form    action="<?php    echo    htmlspecialchars($_SERVER["PHP_SELF"]);    ?>"
method="post">
                        <div class="alert alert-danger">
                            <input type="hidden" name="id" value="<?php echo trim($_GET["id"]); ?>"/>
                            <p>Are you sure you want to delete this Student record?</p>
                            <p>

```



















```

        <input type="submit" value="Yes" class="btn btn-danger">
        <a href="index.php" class="btn btn-secondary">No</a>
    </p>
</div>
</form>
</div>
</div>
</div>
</div>
</body>
</html>

```

Output:

The screenshot displays a web application running on a local host. The page title is "Students Details". In the top right corner, there is a green button labeled "+ Add New Student". Below this, there is a table with the following data:

Roll No	Name	Marks	Customize
1	Raj Pawar	90	 
2	Rushi Jadhav	85	 
3	Pratik Meshram	100	 
4	Pranav Kulkarni	83	 
5	Karan Ingale	80	 
6	Ashootosh Pawar	80	 
7	Varunraj Tipugade	85	 
9	Meshram	44	 

The browser's taskbar at the bottom shows the system date as 26-04-2022 and the time as 12:13 PM.



Create Record

Please fill this form and submit to add employee record to the database.

Roll No

Name

Marks



Update Record

Please edit the input values and submit to update the employee record.

Name

Marks





Delete Record

Are you sure you want to delete this Student record?

Yes No



Students Details

+ Add New Student

Roll No	Name	Marks	Customize
1	Raj Pawar	90	Edit Delete
2	Rushi Jadhav	85	Edit Delete
3	Pratik Meshram	100	Edit Delete
4	Pranav Kulkarni	83	Edit Delete
5	Karan Ingale	80	Edit Delete
6	Ashootosh Pawar	80	Edit Delete
7	Varunraj Tipugade	85	Edit Delete
11	Atharv Shirgave	85	Edit Delete

