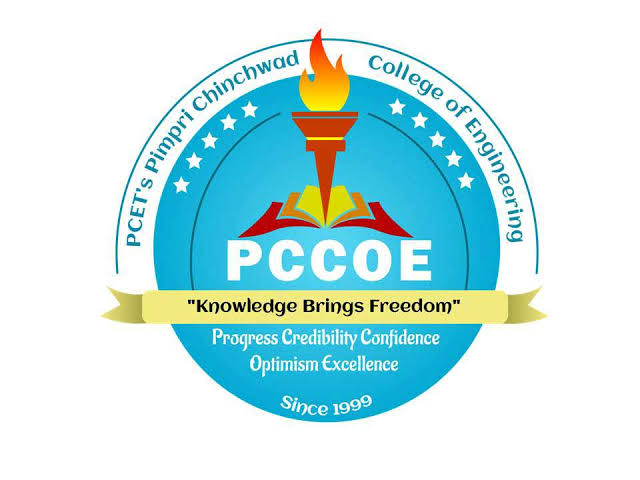
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**Pimpri Chinchwad College of Engineering, Pune**

**ASSIGNMENT NO – 7**

**Department – Computer Engineering**

**Semester – V**

**Academic Year- 2021-22**

**Subject – Web Technology**

**By-**

**Name – Varunraj Vijay Tipugade**

**Roll No – TECOC380**

**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 interactingwith 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());

}

?>

1. **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>

1. **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>

1. **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>

1. **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:**

