Web Application Development

Lab Assignment - 11

**PHP & AJAX**

1. **Create a form that takes an email input. When the user types an email and submits the form, use AJAX to check whether the email exists in the database. If the email exists, show a message below the form indicating the email is taken. If the email is available, display a message indicating that the email is available. Use database and table created in Assignment 10 Question 7.**

**Answer:-**

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<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Form</title>

    <script src="../jquery-3.7.1.js"></script>

    <style>

        .error{

            color: red;

        }

        .success{

            color:green;

        }

    </style>

</head>

<body>

    <form action="" method="post" id="form">

        <input type="email" id="email" placeholder="Enter Email" name="email">

        <p id="msg"></p>

        <input type="submit" value="Submit" name="submit">

    </form>

    <script>

        $("#form").submit(function(e){

            e.preventDefault();

            let email = $("#email").val();

            $.ajax({

                url:"form.php",

                method : "POST",

                data: {"email":email},

                success:function(data){

                    console.log(data)

                    $("#msg").addClass(data)

                    if(data === "error")

                        $("#msg").text("Email is already exit")

                    else

                        $("#msg").text("New Email")

                }

            })

        })

    </script>

</body>

</html>

<?php

$email = $\_POST['email'];

// echo "Email:".$email;

$conn = new mysqli("127.0.0.1","root","","23mmci79");

if($conn->connect\_error){

    die("Db not connected");

}

function detailsOfStudent($email){

    global $conn;

    try {

        $qry = "SELECT \* FROM student WHERE email=?";

        $stmt = $conn->prepare($qry);

        $stmt->bind\_param("s",$email);

        $stmt->execute();

        $res = $stmt->get\_result();

        if($res->num\_rows>0){

            return $res;

        }else{

            return false;

        }

    } catch (Exception $e) {

        echo $e->getMessage();

    }

}

$res = detailsOfStudent($email);

if($res){

    echo "error";

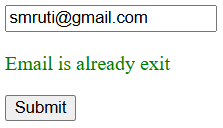
}else{

    echo "success";

}

?>

**Output:-**



1. **Create a form to accept student details like sic, name, branch and cgpa. With help of PHP and AJAX store the given data to database asynchronously. Use SIC as unique in database. Also add a hybrid validation for the SIC number. Use client side validation using regular expression to validate the formant of the SIC and server side validation to check if the SIC is already exists in the database. Display suitable messages accordingly.**

**Answer:-**

<!-- Abhaya Kumar Das

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**Form.html**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

    <script src="./../jquery-3.7.1.js"></script>

</head>

<body>

    <form action="" method="post" id="form">

        <input type="text" id="sic" name="sic" placeholder="Enter SIC">

        <p id="sic-error"></p>

        <input type="text" id="name" name="name" placeholder="Enter Your name">

        <p id="name-error"></p>

        <input type="text" id="branch" name="branch" placeholder="Enter Your Branch">

        <p id="branch-error"></p>

        <input type="text" id="cgpa" name="cgpa" placeholder="Enter CGPA">

        <p id="cgpa-error"></p>

        <input type="submit" value="Submit" name="submit">

    </form>

<script>

    $("#form").submit(function(e){

        e.preventDefault()

        let sic = $("#sic").val()

        let name = $("#name").val()

        let branch = $("#branch").val()

        let cgpa = $("#cgpa").val()

        let error = false

        if(sic===""){

           $("#sic-error").text("Please enter SIC")

           error = true

        }

        else if(!sic.match(/^[0-9]{1,2}[a-zA-Z]{4}[0-9]{2}$/)){

            $("#sic-error").text("Please enter valid sic")

            error =true

        }else{

            $("#sic-error").text("")

        }

        if(name === ""){

            $("#name-error").text("Please enter name")

            error = true

        }else{

            $("#name-error").text("")

        }

        if(branch === ""){

            $("#branch-error").text("Please enter branch")

            error = true

        }else{

            $("#branch-error").text("")

        }

        if(cgpa ===""){

            $("#cgpa-error").text("Please enter CGPA")

            error = true

        }

        else{

            $("#cgpa-error").text("")

        }

        $.ajax({

            url : "form.php",

            method : "POST",

            data : {"sic":sic,"name":name,"branch":branch,"cgpa":cgpa},

            success :function(data){

                console.log(data)

                if(data === "error"){

                    $("#sic-error").text("sic already exist")

                }else if(data === "success"){

                    alert("Registration completed")

                }

                else{

                    alert("Something error")

                }

            }

        })

    })

</script>

</body>

</html>

**Function.php**

<?php

function getconnection(){

    $conn = new mysqli("127.0.0.1","root","","23mmci79");

if($conn->connect\_error){

    die($conn->error);

}

return $conn;

}

function insert($sic,$name,$branch,$cgpa){

   $conn = getconnection();

    try{

        $q1 = "INSERT INTO std1(sic,name,branch,cgpa)VALUES(?,?,?,?)";

        $stmt = $conn->prepare($q1);

        $stmt->bind\_param("sssd",$sic,$name,$branch,$cgpa);

        $res = $stmt->execute();

        return $res;

    }catch(Exception $e){

        echo $e->getMessage();

    }finally{

        $conn->close();

    }

}

function fetch\_sic($sic){

    $conn = getconnection();

    try{

        $qry = "SELECT sic from std1 WHERE sic=?";

        $stmt = $conn->prepare($qry);

        $stmt->bind\_param("s",$sic);

        $stmt->execute();

        $res = $stmt->get\_result();

        if($res->num\_rows > 0){

            return $res;

        }

        else{

            return false;

        }

        //$stmt->close();

    }catch(Exception $e){

        echo $e->getMessage();

    }finally{

        $conn->close();

    }

}

?>

**Form.php**

<?php

$sic = $\_POST['sic'];

$name = $\_POST['name'];

$branch = $\_POST['branch'];

$cgpa = $\_POST['cgpa'];

require "functions.php";

$res = fetch\_sic($sic);

// $res=false;

if($res){

     echo "error";

}else{

    // require "functions.php";

    $result = insert($sic,$name,$branch,$cgpa);

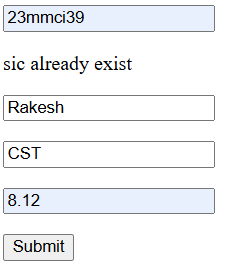
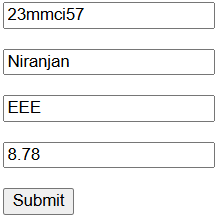
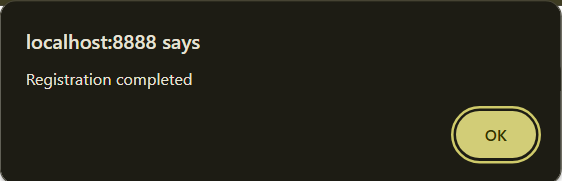
    if($result){

        echo "success";

    }

}

?>

**Output:-**

1. **Create a HTML file and display the available records created by above question using PHP and AJAX asynchronously during the page load.**

**Answer:-**

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**Display.html**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Display</title>

</head>

<body>

    <script src="../jquery-3.7.1.js"></script>

    <script>

        $.ajax({

            url: "display.php",

            method: "GET",

            success: function (data) {

                // console.log(data)

                // console.log(typeof(data))

                std = JSON.parse(data)

                console.log(std)

                console.log(typeof (std))

                console.log(std.length)

                let table = `<table border='1' cellpading='5' cellspacing='0'>

                    <tr>

                        <th>SIC</th>

                        <th>NAME</th>

                        <th>BRANCH</th>

                        <th>CGPA</th>

                    </tr>`

                for (let i = 0; i < std.length; i++) {

                    table += `<tr>

                            <td>${std[i].sic}</td>

                            <td>${std[i].name}</td>

                            <td>${std[i].branch}</td>

                            <td>${std[i].cgpa}</td>

                            </tr>`

                }

                table += "</table>"

                $("body").html(table)

            }

        })

    </script>

</body>

</html>

**Display.php**

<?php

$conn = new mysqli("127.0.0.1","root","","23mmci79");

if($conn->connect\_error){

    die($conn->error);

}

else{

    try{

        $qry = "SELECT \* from std1";

        $stmt = $conn->prepare($qry);

        $stmt->execute();

        $res = $stmt->get\_result();

        if($res->num\_rows > 0){

            $data = $res->fetch\_all(MYSQLI\_ASSOC);

            echo json\_encode($data);

        }

        else{

            echo "No Data Found";

        }

    }catch(Exception $e){

        echo $e->getMessage();

    }finally{

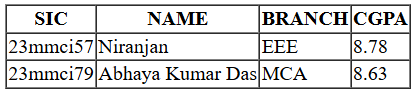
        $conn->close();

    }

}

?>

**Output:-**

****

1. **Create a form with two empty dropdowns for state and city. Import the database provided which have two tables, states and cities. Use ajax to fetch the state names from the states table and populate it in the state dropdown. Once a state is selected form the dropdown cities of that state should be populated in the second dropdown. Once from is submitted with the data, display which state and city is selected.**

**Answer:-**

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**db\_connection.php**

<?php

$conn = new mysqli("127.0.0.1","root","","23mmci79");

if($conn->connect\_error){

    die($conn->error);

}

?>

**form.html**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Form</title>

</head>

<body>

    <form action="display.php" method="post" id="form">

        <label>State:</label>

        <select name="state" id="state" required>

            <option value="">Select State</option>

        </select><br><br>

        <label>City: </label>

        <select name="city" id="city" required>

            <option value="">Select City</option>

        </select><br><br>

        <input type="submit" name="submit" value="Submit">

    </form>

    <script src="../jquery-3.7.1.js"></script>

    <script>

        $("document").ready(function(){

            $.ajax({

                url:"get\_state.php",

                method: "GET",

                success: function(data){

                    try {

                        // console.log(data);

                        // console.log(typeof(data));

                        data = JSON.parse(data);

                        let states = `<option value="1">Select State</option>`

                        data.forEach( s => {

                            states+=`<option value=${s.id}>${s.state\_name} </option>`

                        });

                        $("#state").html(states)

                    } catch (error) {

                        // console.log(data)

                    }

                }

            })

        }

        )

        $("#state").change(function(){

            let sid = $("#state").val()

            $.ajax({

                url:"get\_city.php",

                method:"POST",

                data: {"state\_id":sid},

                success:function(data){

                    try {

                        // console.log(data);

                        // console.log(typeof(data))

                        data = JSON.parse(data)

                        let cities = `<option value="">Select City</option>`

                        data.forEach( c =>{

                            cities+=`<option value=${c.id}>${c.city\_name}</option>`

                        })

                        $("#city").html(cities)

                    } catch (error) {

                        // console.log(data)

                    }

                }

            })

        })

    </script>

</body>

</html>

**get\_state.php**

<?php

require\_once "db\_connection.php";

try {

    $qry = "SELECT \* FROM states";

    $stmt = $conn->prepare($qry);

    $stmt->execute();

    $res = $stmt->get\_result();

    if($res->num\_rows>0){

        $data = $res->fetch\_all(MYSQLI\_ASSOC);

        echo json\_encode($data);

    }else{

        echo "No States";

    }

} catch (Exception $e) {

    echo $e->getMessage();

}finally{

    $conn->close();

}

?>

**get\_cities.php**

<?php

require\_once "db\_connection.php";

$sid = $\_POST['state\_id'];

try {

    $qry = "SELECT \* FROM cities where state\_id=?";

    $stmt = $conn->prepare($qry);

    $stmt->bind\_param("i",$sid);

    $stmt->execute();

    $res = $stmt->get\_result();

    if($res->num\_rows>0){

        $data = $res->fetch\_all(MYSQLI\_ASSOC);

        echo json\_encode($data);

    }else{

        echo "No City Availabel";

    }

} catch (Exception $e) {

    echo $e->getMessage();

}finally{

    $conn->close();

}

?>

**display.php**

<?php

if(isset($\_POST['submit'])){

    $sid = $\_POST['state'];

    $cid = $\_POST['city'];

    require\_once "db\_connection.php";

    try {

        $qry = "SELECT states.state\_name,cities.city\_name FROM states,cities where states.id=cities.state\_id and cities.id=?";

        $stmt = $conn->prepare($qry);

        $stmt->bind\_param("i",$cid);

        $stmt->execute();

        $res = $stmt->get\_result();

        if($res->num\_rows>0){

            $data = $res->fetch\_assoc();

            echo "You Selected state:$data[state\_name] and city:$data[city\_name]";

        }

    } catch (Exception $e) {

        echo $e->getMessage();

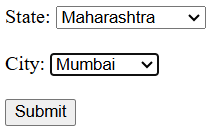
    }finally{

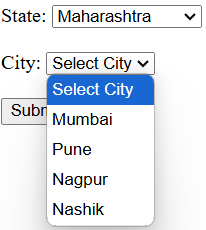
        $conn->close();

    }

}

?>

**Output:-**



You Selected state:Maharashtra and city:Mumbai