

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.

Code: -

Index.html

```
<!-- Name: Sunil Kumar Sahoo -->
<!-- SIC: 23MMCI38 -->
<!-- Roll no: 16 -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Email Validate</title>
  <link rel="stylesheet" href="../../Bootstrap/bootstrap.min.css">
</head>
<body>
  <div class="row" >
    <form class="col-md-5 mt-3 p-4 mx-auto bg-info-subtle rounded-3" action="" method="POST" id="form">
      <h3 class="text-center text-primary fw-bold">New Registration</h3>
      <label class="form-label">Email</label>
      <input type="text" name="email" id="email" class="form-control" required>
      <div class="alert mt-3 d-none alert-dismissible fade show" role = "alert" id="status-message">
        <strong id="message"></strong>
        <button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
      </div >
      <input type="submit" name="submit" value="Register" class=" my-4
        d-block px-4 mx-auto btn bg-info">
    </form>
  </div>
  <script src="../../Bootstrap/bootstrap.bundle.min.js"></script>
  <script src="../../jquery/jquery-3.7.1.min.js"></script>
  <script src="/index.js"></script>
</body>
</html>
```

Index.js

```
$('#form').submit(function (e) {
  e.preventDefault();
  let email = $('#email').val();
  $.ajax({
    url: "index.php",
```

```

method: "post",
data: {
    email: email
},
success: function (data) {
    try {
        data = JSON.parse(data);
        if (data['status'] === 'success') {
            $("#status-message").removeClass("d-none alert-danger");
            $("#status-message").addClass("d-block alert-success");
            $("#message").html(data['message']);
        }
        else {
            $("#status-message").removeClass("d-none alert-success");
            $("#status-message").addClass("d-block alert-danger");
            $("#message").html(data['message']);
        }
    } catch (error) {
        console.log(error);
        console.log(data);
    }
}
})
})

```

Index.php

```

<?php
$email = $_POST['email'];
$HOST= "localhost";
$USERNAME="root";
$PASSWORD="";
$DBNAME= "23mmci38";
$conn = new mysqli($HOST,$USERNAME,$PASSWORD,$DBNAME);
if($conn->connect_error){
    die($conn->connect_error);
}
try{
    $qry = "SELECT * FROM employee WHERE email=?";
    $smt = $conn->prepare($qry);
    $smt->bind_param("s",$email);
    $smt->execute();
    $result = $smt->get_result();
    $data = [];
    if($result->num_rows > 0){
        $data['status']="error";
        $data['message']="Email Already Exists";
    } else{
        $data['status']="success";
        $data['message']="Email Is Fresh";
    }
    echo json_encode($data);
} catch(Exception $e){
    die($e->getMessage());
} finally{
    $conn->close();
} ?>

```

Output: -

Email Availability Check

Email:

johnndoe@gmail.com

Check Availability

Email is available.

2. 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.

Code: -

Inputform.html

```
<!-- Name: Sunil Kumar Sahoo -->
<!-- SIC: 23MMCI38 -->
<!-- Roll no: 16 -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <link rel="stylesheet" href="../../Bootstrap/bootstrap.min.css">
</head>
<body>
  <div class="row" >
    <form class="col-md-5 mt-3 p-4 mx-auto bg-info-subtle rounded-3" id="form" action=""
method="POST">
      <h3 class="text-center text-primary fw-bold">New Registration</h3>
      <label class="form-label">SIC</label>
      <input type="text" name="sic" id="sic" class="form-control mb-2" required>
      <p class="text-danger" id="sic-error"></p>
      <label class="form-label">Name</label>
      <input type="text" name="name" id="name" class="form-control mb-2" required>
      <label class="form-label">Branch</label>
      <select name="branch" class="form-control" id="branch" required>
        <option value="">--Select--</option>
        <option value="MCA">MCA</option>
        <option value="CSE">CSE</option>
        <option value="EEE">EEE</option>
        <option value="ECE">ECE</option>
      </select>
      <label class="form-label">CGPA</label>
      <input type="text" name="cgpa" id="cgpa" class="form-control mb-2" required>
      <input type="submit" name="submit" value="Register" class=" my-4
d-block px-4 mx-auto btn bg-info">
      <div class="alert d-none" role="alert" id="message">
      </div>
    </form>
  </div>
```

```

<script src="../../Bootstrap/bootstrap.bundle.min.js"></script>
<script src="../../jquery/jquery-3.7.1.min.js"></script>
<script src="/inputform.js"></script>
</body>
</html>

```

Inputform.js

```

$('#form').submit(function (e) {
    $('#message').text("")
    $('#message').addClass("d-none")
    e.preventDefault();
    let sic = $('#sic').val();
    let name = $('#name').val();
    let branch = $('#branch').val();
    let cgpa = $('#cgpa').val();
    let isError = false;
    if (sic == "") {
        $('#sic-error').text("Please enter the SIC")
        isError = true;
    } else if (!sic.match(/^[0-9]{1,2}[A-Z]{4}[0-9]{2}$/)) {
        $('#sic-error').text("Enter a valid SIC")
        isError = true;
    } else {
        console.log(sic);
        $('#sic-error').text("")
        $.ajax({
            url: "check_sic.php",
            method: "post",
            data: {
                sic: sic
            },
            success: (data) => {
                console.log(data);
                try {
                    data = JSON.parse(data);
                    if (data['status'] == "error") {
                        console.log("here");
                        $('#sic-error').text("SIC already exists")
                        return
                    } else {
                        $.ajax({
                            url: "send_data.php",
                            method: "post",
                            data: {
                                sic: sic,
                                name: name,

```

check sic.php

Sunil Kumar Sahoo | 23MMCI38

```

    $smt = $conn->prepare($qry);
    $smt->bind_param("s",$_POST['sic']);
    $smt->execute();
    $result = $smt->get_result();
    $data = [];
    if($result->num_rows>0){
        $data['status']="error";
        $data['message']="SIC Already Exists";
    } else{
        $data['status']="success";
    }
    echo json_encode($data);
} catch(Exception $e){
    die($e->getMessage());
}finally{
    $conn->close();
}
?>

```

send_data.php

```

<?php
    $email = $_POST['sic'];
    $HOST= "localhost";
    $USERNAME="root";
    $PASSWORD="";
    $DBNAME= "23mmci38";
    $conn = new mysqli($HOST,$USERNAME,$PASSWORD,$DBNAME);
    if($conn->connect_error){
        die($conn->connect_error);
    }
    try{
        $qry = "INSERT INTO student(sic,name,branch,cgpa) values(?,?,?,?)";
        $smt = $conn->prepare($qry);
        $smt->bind_param("sssd",$_POST['sic'],$_POST['name'],$_POST['branch'],$_POST['cgpa']);
        $status = $smt->execute();
        $data = [];
        if($status){
            $data['status']="success";
            $data['message']="Data Insertted";
        } else{
            $data['status']="error";
            $data['message']="Some Error has occured";
        }
        echo json_encode($data);
    } catch(Exception $e){
        die($e->getMessage());
    }
}

```

```

}finally{
    $conn->close();
}
?>

```

Output: -

Student Registration

SIC:

Name:

Branch:

CGPA:

Student registered successfully.

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

Code: -

displaypage.html

```

<!-- Name: Sunil Kumar Sahoo-->
<!-- SIC: 23MMCI38 -->
<!-- Roll no: 16 -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Email Validate</title>
    <link rel="stylesheet" href="../../Bootstrap/bootstrap.min.css">
</head>
<body>
    <div class="w-75 mx-auto" >
        <table class="table table-striped">
            <thead class="text-center">
                <th>SIC</th>
                <th>Name</th>
                <th>Branch</th>
                <th>CGPA</th>
            </thead>
            <tbody id="table-rows">

            </tbody>
        </table>
    </div>
    <script src="../../Bootstrap/bootstrap.bundle.min.js"></script>
    <script src="../../jquery/jquery-3.7.1.min.js"></script>
    <script src="../../display.js"></script>
</body>

```

```
</html>
```

display.php

```
<?php
    $HOST= "localhost";
    $USERNAME="root";
    $PASSWORD="";
    $DBNAME= "23mmci38";
    $conn = new mysqli($HOST,$USERNAME,$PASSWORD,$DBNAME);
    if($conn->connect_error){
        die($conn->connect_error);
    }
    try{
        $qry = "SELECT * FROM student";
        $smt = $conn->prepare($qry);
        $smt->execute();
        $result = $smt->get_result();
        $students = $result->fetch_all(MYSQLI_ASSOC);
        echo json_encode($students);
    } catch(Exception $e){
        die($e->getMessage());
    } finally{
        $conn->close();
    }
?>
```

display.js

```
$(document).ready(() => {
    $.ajax({
        url: "display.php",
        method: "get",
        success: (data) => {
            try {
                // console.log(data);
                data = JSON.parse(data);
                console.log(data);
                let htmlStr = "";
                data.forEach(element => {
                    htmlStr += `
                        <tr>
                            <td>${element['sic']}</td>
                            <td>${element['name']}</td>
                            <td>${element['branch']}</td>
                            <td>${element['cgpa']}</td>
                        </tr>`
                });
                $("#table-rows").append(htmlStr);
            }
        }
    });
});
```



```

    } catch (error) {
        console.log(error);
        console.log(data);
    }
}
})
})

```

Output: -

Available Student Records

SIC	Name	Branch	CGPA
23MMCI73	Debasis	MCA	8.4
23MMCI93	Sam	ECE	8.5
23MMCI43	Abani	MCA	9.5
23MMCI44	Sunil	MCA	9.6

4. 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 form is submitted with the data, display which state and city is selected.

Code: -

form.html

```

<!-- Name: Sunil Kumar Sahoo -->
<!--SIC : 23MMCI38-->
<!--Roll No: 16 -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Form</title>
    <link rel="stylesheet" href="/bootstrap.min.css">
</head>
<body>
    <div class="row" >
        <form class="col-md-5 mt-3 p-4 mx-auto bg-info-subtle rounded-3" id="form" action="submit.php"
method="POST">
            <h3 class="text-center text-primary fw-bold">New Registration</h3>
            <label class="form-label">Select State</label>
            <select name="state" class="form-control" id="state" required>
                <option value="">--Select--</option>
            </select>
            <label class="form-label">Select City</label>
            <select name="city" class="form-control" id="city" required>
                <option value="">--Select--</option>
            </select>
            <input type="submit" name="submit" value="Register" class=" my-4 d-block px-4 mx-auto btn bg-info">
        </form>
    </div>
    <script src="/bootstrap.bundle.min.js"></script>

```

```

<script src="/jquery-3.7.1.min.js"></script>
<script src="/form.js"></script>
</body>
</html>

```

form.js

```

$(document).ready(() => {
    $.ajax({
        url: "getstates.php",
        method: "get",
        success: (data) => {
            try {
                data = JSON.parse(data);
                // console.log(data);
                let htmlEle = `<option>--Select--</option>`;
                data.forEach(element => {
                    htmlEle += `<option value="${element['id']}">${element['state_name']}</option>`;
                });
                $("#state").html(htmlEle);
            } catch (error) {
                console.log(error);
                console.log(data);
            }
        }
    })
})

$("#state").change(() => {
    let state = $("#state").val();
    $.ajax({
        url: "getcities.php",
        method: "post",
        data: {
            state_id: state
        },
        success: (data) => {
            try {
                data = JSON.parse(data);
                // console.log(data);
                let htmlEle = `<option>--Select--</option>`;
                data.forEach(element => {
                    htmlEle += `<option value="${element['id']}">${element['city_name']}</option>`;
                });
                $("#city").html(htmlEle);
            } catch (error) {
                console.log(error);
                console.log(data);
            }
        }
    })
})

```

getstates.php

```

<?php
require_once "dbconnect.php";
try{
    $qry = "SELECT * FROM states";

```

```

$stmt = $conn->prepare($qry);
$stmt->execute();
$result = $stmt->get_result();
$states= $result->fetch_all(MYSQLI_ASSOC);
echo json_encode($states);
} catch(Exception $e){
    die($e->getMessage());
} finally{
    $conn->close();
}
?>

```

getcities.php

```

<?php
if(isset($_POST['state_id'])){ $HOST="localhost";
require_once "dbconnect.php";
try{
    $state_id = $_POST['state_id'];
    // echo $state_id;
    $qry = "SELECT * FROM cities where state_id=?";
    $stmt = $conn->prepare($qry);
    $stmt->bind_param("i",$state_id);
    $stmt->execute();
    $result = $stmt->get_result();
    $states= $result->fetch_all(MYSQLI_ASSOC);
    echo json_encode($states);
} catch(Exception $e){
    die($e->getMessage());
} finally{
    $conn->close();
}
?>

```

Dbconnect.php

```

<?php
$HOST="localhost";
$USER="root";
$PASS = "";
$DBNAME = "23mmci38";
$conn = new mysqli($HOST,$USER,$PASS,$DBNAME);
if($conn->connect_error){
    echo $conn->connect_error;
}
?>

```

Submit.php

```

<?php
if(isset($_POST['submit'])){
    $state_id = $_POST['state'];
    $city_id = $_POST['city'];
    require_once "dbconnect.php";
    try{
        $qry = "SELECT * FROM states WHERE id=?";
        $stmt = $conn->prepare($qry);
        $stmt->bind_param("i",$state_id);
        $stmt->execute();
        $result = $stmt->get_result();
        $rs = $result->fetch_assoc();
    }
}

```

```

$state_name = $rs['state_name'];

$qry = "SELECT * FROM cities WHERE id=?";
$stmt = $conn->prepare($qry);
$stmt->bind_param("i",$city_id);
$stmt->execute();
$result = $stmt->get_result();
$rs = $result->fetch_assoc();
$city_name = $rs['city_name'];
echo "<h3>State Name: ".$state_name."</h3><br>";
echo "<h3>City Name: ".$city_name."</h3><br>";
} catch (Exception $e) {
    die($e->getMessage());
} finally {
    $conn->close();
}

} else {
    header("location:form.html");
}
?>

```

Output: -

State Name: Maharashtra

City Name: Nagpur

Name:- Sunil Kumar Sahoo
Sic:- 23MMCI38
Roll NO: 16
Group: A2