

Group Project Question: GROUP E

Interactive polls

Create an Interactive poll system where users can vote on various topics. use html to display poll options, PHP to process votes and store them in the MYSQL database, and Javascript for real-time updates:- Group Leaders is Ishaq (09072071676) and Oseiwe (08140127072)

SOLUTION:

Step 1: Planning

We researched on our topic using chatgpt, youtube and other programmers online.

installed XAMP since we're using PHP and mySQL as the database.

Step 2: Set Up Your Development Environment

We created a folder (csc201_poll_project) to store our codes. We then set up our xampp and Visual Studio code so we can edit our code

Step 3: Create the Database

WE used mySQL to create a database and named it *testing* that will store the poll questions, options, and responses. You can use phpMyAdmin or execute SQL queries directly. We also created a table name tbl_poll.sql and imported it to our database (testing).

Tbl_poll.sql:

```
-- phpMyAdmin SQL Dump
-- version 4.7.4
-- https://www.phpmyadmin.net/
--
-- Host: 127.0.0.1
-- Generation Time: May 02, 2018 at 01:06 PM
-- Server version: 10.1.30-MariaDB
```

```

-- PHP Version: 5.6.33

SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
SET AUTOCOMMIT = 0;
START TRANSACTION;
SET time_zone = "+00:00";


/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8mb4 */;


--
-- Database: `testing`
--

--
-- -----
--
-- Table structure for table `tbl_poll`
--

CREATE TABLE `tbl_poll` (
  `poll_id` int(11) NOT NULL,
  `php_framework` varchar(100) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;


--
-- Indexes for dumped tables
--

--
-- Indexes for table `tbl_poll`
--
ALTER TABLE `tbl_poll`
  ADD PRIMARY KEY (`poll_id`);


--
-- AUTO_INCREMENT for dumped tables
--

--
-- AUTO_INCREMENT for table `tbl_poll`
--
ALTER TABLE `tbl_poll`

```

```

    MODIFY `poll_id` int(11) NOT NULL AUTO_INCREMENT;
COMMIT;

/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;

```

Step 4: Create HTML Poll Form

We then designed a web page (index.php) with HTML to display the poll. The page should include the poll question and options. We then use a form to submit the selected option to the PHP processing script.

Index.php

```

<?php
//index.php

?>

<html>
    <head>
        <title>Live Poll System in PHP Mysql using Ajax</title>
        <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.min.css" />
        <script
src="https://ajax.googleapis.com/ajax/libs/jquery/2.2.0/jquery.min.js"
></script>
        <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/js/bootstrap.min.js"></script>

    </head>
    <body>
        <div class="container">
            <br />
            <br />
            <br />
            <h2 align="center">Which course is the most simplest this
Semester</h2><br />
            <div class="row">

```

```

        <div class="col-md-6">
            <form method="post" id="poll_form">
                <h3>Vote according to your preference</h3>
                <br />
                <div class="radio">
                    <label><h4><input type="radio"
name="poll_option" class="poll_option" value="Csc201" /> Web
Development</h4></label>
                </div>

                <div class="radio">
                    <label><h4><input type="radio"
name="poll_option" class="poll_option" value="Csc202" /> File
Organization</h4></label>
                </div>
                <div class="radio">
                    <label><h4><input type="radio"
name="poll_option" class="poll_option" value="Csc203" /> Java
Programming</h4></label>
                </div>
                <div class="radio">
                    <label><h4><input type="radio"
name="poll_option" class="poll_option" value="Csc204" /> Object
Oriented Programming in C++</h4></label>
                </div>
                <div class="radio">
                    <label><h4><input type="radio"
name="poll_option" class="poll_option" value="Csc205" /> Computer
Hardware</h4></label>
                </div>
                <br />
                <input type="submit" name="poll_button"
id="poll_button" class="btn btn-primary" />
            </form>
            <br />
        </div>
        <div class="col-md-6">
            <br />
            <br />
            <br />
            <h4>Live Poll Result</h4>
            <div id="poll_result"></div>
            <h2 id="total_participants"></h2>
        </div>
    </div>

```

```

        <br />
        <br />
        <br />
    </div>
</body>
</html>
<script>
$(document).ready(function(){

    fetch_poll_data();

    function fetch_poll_data()
    {
        $.ajax({
            url:"fetch_poll_data.php",
            method:"POST",
            success:function(data)
            {
                $('#poll_result').html(data);
                updateTotalParticipants(); // Update the total
participants after fetching poll data
            }
        });
    }

    function updateTotalParticipants() {
        $.ajax({
            url:"fetch_total_participants.php",
            method:"POST",
            success:function(data)
            {
                $('#h2#total_participants').text("Total Participants: "
+ data);
            }
        });
    }

    $('#poll_form').on('submit', function(event){
        event.preventDefault();
        var poll_option = '';
        $('#poll_option').each(function(){
            if($(this).prop("checked"))
            {
                poll_option = $(this).val();
            }
        });
    });
});

```

```

    });
    if(poll_option != '')
    {
        $('#poll_button').attr('disabled', 'disabled');
        var form_data = $(this).serialize();
        $.ajax({
            url:"poll.php",
            method:"POST",
            data:form_data,
            success:function()
            {
                $('#poll_form')[0].reset();
                $('#poll_button').attr('disabled', false);
                fetch_poll_data();
                updateTotalParticipants(); // Update the total
participants after submitting the poll
                alert("Poll Submitted Successfully");
            }
        });
    }
    else
    {
        alert("Please Select Option");
    }
});
});
</script>

```

Step 5: Fetch Poll Data with PHP

We created a PHP script (Fetch_poll_data.php) to fetch the poll question and options from the database and dynamically populate the HTML form.

Fetch_poll_data.php

```

<?php
// fetch_poll_data.php

include('database_connection.php');

$php_framework = array("Csc201", "Csc202", "Csc203", "Csc204",
"Csc205");

$total_poll_row = get_total_rows($connect);

```

```

$output = '';
if($total_poll_row > 0)
{
    foreach($php_framework as $row)
    {
        $query = "SELECT * FROM tbl_poll WHERE php_framework =
'".$row."'";
        $statement = $connect->prepare($query);
        $statement->execute();
        $total_row = $statement->rowCount();
        $percentage_vote = round(($total_row/$total_poll_row)*100);
        $progress_bar_class = '';
        if($percentage_vote >= 40)
        {
            $progress_bar_class = 'progress-bar-success';
        }
        else if($percentage_vote >= 25 && $percentage_vote < 40)
        {
            $progress_bar_class = 'progress-bar-info';
        }
        else if($percentage_vote >= 10 && $percentage_vote < 25)
        {
            $progress_bar_class = 'progress-bar-warning';
        }
        else
        {
            $progress_bar_class = 'progress-bar-danger';
        }
        $output .= '
<div class="row">
    <div class="col-md-2" align="right">
        <label>' . $row . '</label>
    </div>
    <div class="col-md-10">
        <div class="progress">
            <div class="progress-bar '.$progress_bar_class.'"
role="progressbar" aria-valuenow="'.$percentage_vote.'" aria-
valuemin="0" aria-valuemax="100" style="width:'.$percentage_vote.'%">
                '.$percentage_vote.' % Students like
<b>' . $row . '</b> !!
            </div>
        </div>
    </div>
</div>
';
    }
}

```

```

}

echo $output;

function get_total_rows($connect)
{
    $query = "SELECT * FROM tbl_poll";
    $statement = $connect->prepare($query);
    $statement->execute();
    return $statement->rowCount();
}
?>

```

Step 6: Process Poll Submission with PHP

We created a PHP script (poll.php) to process the submitted poll and update the database.

Poll.php

```

<?php
// poll.php

include('database_connection.php');

if(isset($_POST["poll_option"]))
{
    $query = "
    INSERT INTO tbl_poll
    (php_framework) VALUES (:php_framework)
    ";
    $data = array(
        ':php_framework' => $_POST["poll_option"]
    );
    $statement = $connect->prepare($query);
    $statement->execute($data);
}
?>

```

Step 7: Implement Real-Time Updates with JavaScript

For real-time updates, you can use JavaScript and AJAX. Create a JavaScript file (poll.js) to handle the submission of the form asynchronously and update the poll options dynamically.

```
<script>
$(document).ready(function(){

    fetch_poll_data();

    function fetch_poll_data()
    {
        $.ajax({
            url:"fetch_poll_data.php",
            method:"POST",
            success:function(data)
            {
                $('#poll_result').html(data);
                updateTotalParticipants(); // Update the total
participants after fetching poll data
            }
        });
    }

    function updateTotalParticipants() {
        $.ajax({
            url:"fetch_total_participants.php",
            method:"POST",
            success:function(data)
            {
                $('#h2#total_participants').text("Total Participants: "
+ data);
            }
        });
    }

    $('#poll_form').on('submit', function(event){
        event.preventDefault();
        var poll_option = '';
        $('#poll_option').each(function(){
            if($(this).prop("checked"))
            {
                poll_option = $(this).val();
            }
        });
        if(poll_option != '')
        {
            $('#poll_button').attr('disabled', 'disabled');
        }
    });
});
</script>
```

```

var form_data = $(this).serialize();
$.ajax({
    url:"poll.php",
    method:"POST",
    data:form_data,
    success:function()
    {
        $('#poll_form')[0].reset();
        $('#poll_button').attr('disabled', false);
        fetch_poll_data();
        updateTotalParticipants(); // Update the total
participants after submitting the poll
        alert("Poll Submitted Successfully");
    }
});
}
else
{
    alert("Please Select Option");
}
});
});
</script>

```

Step 8: Test Your Polling System

We then set up our local host (XAMPP) so that everything we did will be functioning and the real-time updates work as expected.