Project

Deadline: Thursday 12/05/2022 @ 23:59

**[Total Mark is 15]**

***E-portals*** ***Development***

***IT405***

**Instructions:**

* You must submit two separate copies **(one Word file and one PDF file)** using the Assignment Template on Blackboard via the allocated folder. These files **must not be in compressed format**.
* It is your responsibility to check and make sure that you have uploaded both the correct files.
* Zero mark will be given if you try to bypass the SafeAssign (e.g. misspell words, remove spaces between words, hide characters, use different character sets, convert text into image or languages other than English or any kind of manipulation).
* Email submission will not be accepted.
* You are advised to make your work clear and well-presented. This includes filling your information on the cover page.
* You must use this template, failing which will result in zero mark.
* You MUST show all your work, and text must not be converted into an image, unless specified otherwise by the question.
* Late submission will result in ZERO mark.
* The work should be your own, copying from students or other resources will result in ZERO mark.
* Use **Times New Roman** font for all your answers.

Student Details: CRN:

|  |  |  |
| --- | --- | --- |
|  |  |  |
| **Name:**  **Name:**  **Name:** |  | **ID:**  **ID:**  **ID:** |
|  |  |  |

# Description and Instructions

**Project Objective:**

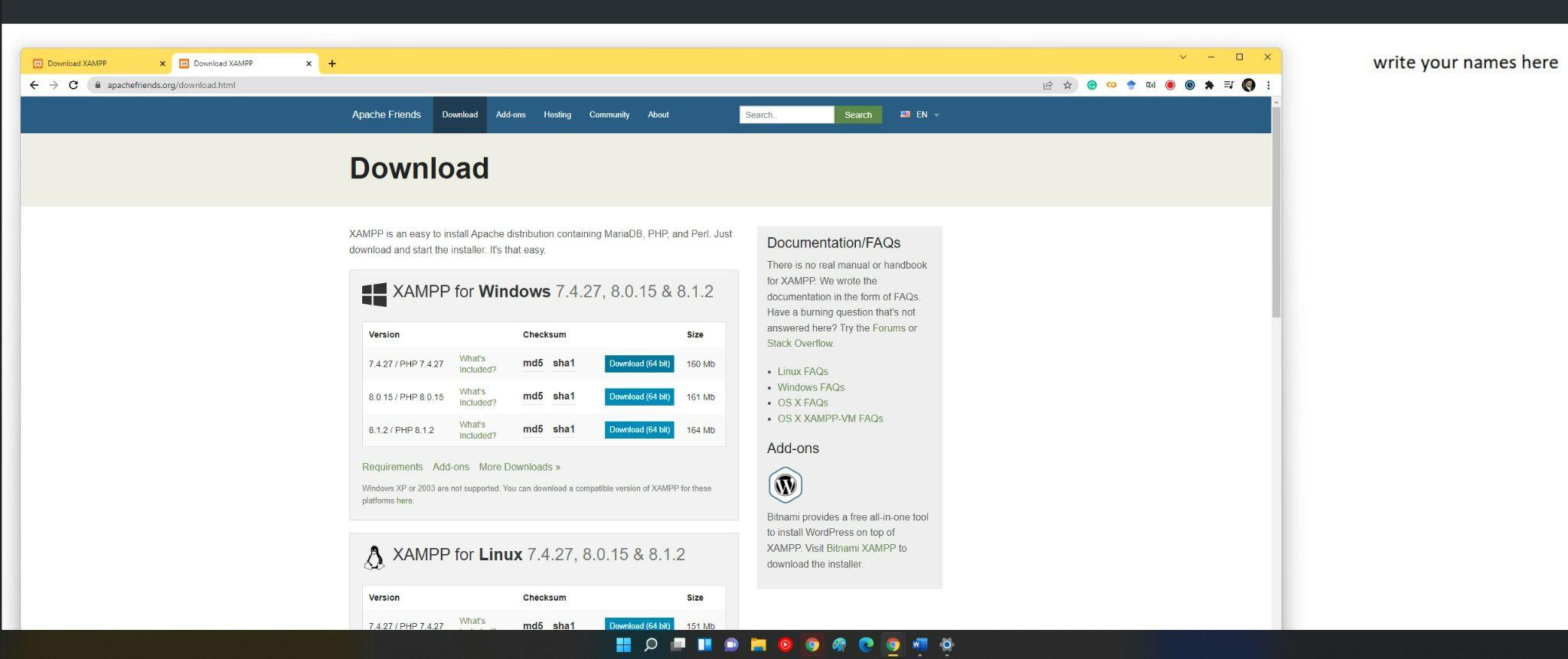
This project is an opportunity for you to practice your knowledge in PHP and MySQL. It will allow you to develop skills of working in teams.

**Project Description:**

This project is about the creation of PHP and MySQL based web application in which you will be required to upload the given data into MySQL database using PHP. You are required to fulfill the following requirements.

Download the XAMPP server by following the link.

[Download XAMPP (apachefriends.org)](https://www.apachefriends.org/download.html)



1. Install XAMPP on your laptop/computer
2. Go to Kaggle Dataset or Google dataset search

<https://www.kaggle.com/datasets>

<https://datasetsearch.research.google.com/>

1. Download any dataset as a CSV file
2. Import CSV File into MySQL using PHP
3. Create an HTML form.
4. Write PHP script for connecting to XAMPP and MySQL database.
5. Execute MySQL query from php using HTML form.
6. Create Dynamic Data Visualization with PHP and MySQL.
7. Create users Registration and Login System with PHP and MySQL.

**Submission Guidelines:**

1. The project will have two sub-parts namely “report” of 10 absolute marks and “presentation” of 5 absolute marks.
2. Every group must consist of minimum 3 or maximum 4 students.
3. Presentations will be conducted in Week 15.
4. You are required to submit the **report, presentation and the source code** on or before the due data via BlackBoard.
5. Only the Group Leader has to submit the report via BlackBoard. However, the names and IDs of all the group members should appear on the report.

**Marking Criteria:**

|  |  |
| --- | --- |
| The program is error-free | /10 |
| HTML form is designed correctly with proper interface | /20 |
| The data is loaded into MySQL database properly | /20 |
| The user registration and login system work properly | /20 |
| Data visualization is achieved | /10 |
| Output screenshots in the report | /10 |
| The code is well documented (commented) | /10 |
| Presentation | /50 |
| Total | /150 |
| **Final Grade** | /15 |

# Answer

*Learning Outcome(s):*

*LO3: Create web databases using MySQL.*

*LO4: Build web applications using PHP and MySQL*

***10 Marks for project + 5 marks for presentation***

1. **Brief description**

Provide a brief description of your program in this section.

1. **Program code**

Put the code of your program in this section. Also, submit the source code in a separate zip file. Do not forget to document (comment) on your code.

View.php

<?php

    //Including FusionCharts’ PHP Wrapper

    include("./fusioncharts/fusioncharts-wrapper/fusioncharts.php");

?>

    <html>

<head>

    <!-- Including FusionCharts JavaScript file -->

<script type="text/javascript" src="./resources/js/fusioncharts.js"></script>

<script type="text/javascript" src="./resources/js/themes/fusioncharts.theme.fusion.js"></script>

<style>

  header {

  height: 100vh;

  -webkit-background-size: cover;

  background-size: cover;

  background-position: center center;

  position: relative;

}

ul{

  float: right;

  list-style-type: none;

}

ul li {

  display: inline-block;

}

ul li a{

    text-decoration:none;

    color:#000;

    padding:5px 20px;

    border: 1px solid #000;

    transition: 0.6s ease;

}

ul li a: hover{

    background-color:#fff;

    color:#000;

}

.main{

    max-width:1200px;

    margin:auto;

}

  </style>

</head>

<body>

<?php

    require('db.php');

    $sql = "SELECT \* FROM dataset";

    $result = $conn->query($sql);

if ($result) {

    // creating an associative array to store the chart attributes

    $arrData = array(

      "chart" => array(

        "caption" => "COVID-19 Coronavirus Pandemic ",

        "numberSuffix" => "K",

        "theme" => "fusion",

        "xAxisName"=>"Country",

        "yAxisName"=>"Total Cases"

      )

    );

    $arrData["data"] = array();

    // iterating over each data and pushing it into $arrData array

    while ($row = mysqli\_fetch\_array($result)) {

      array\_push($arrData["data"], array(

//values can be changed to fetch different colunms

        "label" => $row["Country"],

        "value" => $row["TotalCases"]

      ));

    }

    $jsonData = json\_encode($arrData);

  }

//   echo $jsonData;

  $columnChart = new FusionCharts("column2d", "covidChart",

 "100%", "500", "covid-chart", "json", $jsonData);

 // FusionCharts render() method

  $columnChart->render();

?>

<header>

        <div class="main">

            <ul>

                <li><a href="index.php">Home</a></li>

                <li><a href="upload\_ui.php">upload csv</a></li>

                <li><a href="view.php">view csv</a></li>

                <li><a href="logout.php">Logout</a></li>

            </ul>

</div>

<div id="covid-chart">Here is your chart</div>

</header>

</body>

</html>

Upload.php

<?php

// include mysql database configuration file

include\_once 'db.php';

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

{

    // Allowed mime types

    $fileMimes = array(

        'text/x-comma-separated-values',

        'text/comma-separated-values',

        'application/octet-stream',

        'application/vnd.ms-excel',

        'application/x-csv',

        'text/x-csv',

        'text/csv',

        'application/csv',

        'application/excel',

        'application/vnd.msexcel',

        'text/plain'

    );

    // Validate whether selected file is a CSV file

    if (!empty($\_FILES['file']['name']) && in\_array($\_FILES['file']['type'], $fileMimes))

    {

            // Open uploaded CSV file with read-only mode

            $csvFile = fopen($\_FILES['file']['tmp\_name'], 'r');

            // Skip the first line

            fgetcsv($csvFile);

            // Parse data from CSV file line by line

             // Parse data from CSV file line by line

            while (($getData = fgetcsv($csvFile, 10000, ",")) !== FALSE)

            {

                // Get row data

                $Country=$getData[0];

                $Othernames=$getData[1];

                $ISO =$getData[2];

                $Population=$getData[3];

                $Continent=$getData[4];

                $TotalCases=$getData[5];

                $TotalDeaths=$getData[6];

                $TotÂ Cases1M=$getData[7];

                $pop=$getData[8];

                $Deathpercentage=$getData[9];

                // If user already exists in the database with the same email

                echo "uploading file";

                mysqli\_query($conn,"INSERT INTO dataset (Country, Othernames,ISO,Population,Continent,TotalCases,TotalDeaths,TotÂ Cases1M,pop,Deathpercentage) VALUES ('" .$Country. "', '" . $Othernames. "', '" .$ISO. "', '" .$Population. "', '" .$Continent. "', '" .$TotalCases. "', '" .$TotalDeaths. "', '" .$TotÂ Cases1M. "', '" .$pop. "', '" .$Deathpercentage. "')");

            }

        }

        // Close opened CSV file

        fclose($csvFile);

        header("Location: index.php");

}

else

{

    echo "Please select valid file";

}

Upload\_ui.;php

<?php

require('db.php');

include("session.php");

?>

<!doctype html>

<html lang="en">

<head>

  <!-- Required meta tags -->

  <meta charset="utf-8">

  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <!-- Bootstrap CSS -->

  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">

  <title>Import the covid CSV</title>

  <style>

    .custom-file-input.selected:lang(en)::after {

      content: "" !important;

    }

    .custom-file {

      overflow: hidden;

    }

    .custom-file-input {

      white-space: nowrap;

    }

    header {

  background: linear-gradient(rgba(0, 0, 0, 0.8), rgba(0, 0, 0, 0.8)), url(./image/1.jpg);

  height: 100vh;

  -webkit-background-size: cover;

  background-size: cover;

  background-position: center center;

  position: relative;

}

ul{

  float: right;

  list-style-type: none;

}

ul li {

  display: inline-block;

}

ul li a{

    text-decoration:none;

    color:#fff;

    padding:5px 20px;

    border: 1px solid #fff;

    transition: 0.6s ease;

}

ul li a: hover{

    background-color:#fff;

    color:#000;

}

.main{

    max-width:1200px;

    margin:auto;

}

  </style>

</head>

<body>

<header>

        <div class="main">

            <ul>

                <li><a href="index.php">Home</a></li>

                <li><a href="upload\_ui.php">upload csv</a></li>

                <li><a href="view.php">view csv</a></li>

                <li><a href="logout.php">Logout</a></li>

            </ul>

</div>

  <div class="container">

    <form action="upload.php" method="post" enctype="multipart/form-data" >

      <div class="input-group">

        <div class="custom-file">

          <input type="file" class="custom-file-input" id="customFileInput" aria-describedby="customFileInput" name="file">

          <label class="custom-file-label" for="customFileInput">Select file</label>

        </div>

        <div class="input-group-append">

           <input type="submit" name="submit" value="Upload" class="btn btn-primary">

        </div>

      </div>

  </form>

  </div>

  </header>

</body>

</html>

Sign up.php

<!DOCTYPE html>

<html>

<head>

    <meta charset="utf-8"/>

    <title>Registration</title>

    <link rel="stylesheet" href="style.css"/>

    <style>

        body{

            background: linear-gradient(rgba(0, 0, 0, 0.8), rgba(0, 0, 0, 0.8)), url(./image/1.jpg);

    height: 100vh;

    -webkit-background-size: cover;

    background-size: cover;

    background-position: center center;

    position: relative;

        }

        </style>

</head>

<body>

<?php

    require('db.php');

    // When form submitted, insert values into the database.

    if (isset($\_REQUEST['username'])) {

        // removes backslashes

        $username = stripslashes($\_REQUEST['username']);

        //escapes special characters in a string

        $username = mysqli\_real\_escape\_string($conn, $username);

        $email    = stripslashes($\_REQUEST['email']);

        $email    = mysqli\_real\_escape\_string($conn, $email);

        $password = stripslashes($\_REQUEST['password']);

        $password = mysqli\_real\_escape\_string($conn, $password);

        $query    = "INSERT into `users` (username, password, email)

                     VALUES ('$username', '" . md5($password) . "', '$email' )";

        $result   = mysqli\_query($conn, $query);

        if ($result) {

            echo "<div class='form'>

                  <h3>You are registered successfully.</h3><br/>

                  <p class='link'>Click here to <a href='login.php'>Login</a></p>

                  </div>";

        } else {

            echo "<div class='form'>

                  <h3>Required fields are missing.</h3><br/>

                  <p class='link'>Click here to <a href='registration.php'>registration</a> again.</p>

                  </div>";

        }

    } else {

?>

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

        <h1 class="login-title">Registration</h1>

        <input type="text" class="login-input" name="username" placeholder="Username" required />

        <input type="text" class="login-input" name="email" placeholder="Email Adress">

        <input type="password" class="login-input" name="password" placeholder="Password">

        <input type="submit" name="submit" value="Register" class="login-button">

        <p class="link"><a href="login.php">Click to Login</a></p>

    </form>

<?php

    }

?>

</body>

</html>

Login.php

<!DOCTYPE html>

<html>

<head>

    <meta charset="utf-8"/>

    <title>Login</title>

    <link rel="stylesheet" href="style.css"/>

    <style>

        body{

            background: linear-gradient(rgba(0, 0, 0, 0.8), rgba(0, 0, 0, 0.8)), url(./image/1.jpg);

    height: 100vh;

    -webkit-background-size: cover;

    background-size: cover;

    background-position: center center;

    position: relative;

        }

        </style>

</head>

<body>

<?php

    require('db.php');

    session\_start();

    // When form submitted, check and create user session.

    if (isset($\_POST['username'])) {

        $username = stripslashes($\_REQUEST['username']);    // removes backslashes

        $username = mysqli\_real\_escape\_string($conn, $username);

        $password = stripslashes($\_REQUEST['password']);

        $password = mysqli\_real\_escape\_string($conn, $password);

        // Check user is exist in the database

        $query    = "SELECT \* FROM `users` WHERE username='$username'

                     AND password='" . md5($password) . "'";

        $result = mysqli\_query($conn, $query) or die(mysql\_error());

        $rows = mysqli\_num\_rows($result);

        if ($rows == 1) {

            $\_SESSION['username'] = $username;

            // Redirect to user dashboard page

            header("Location: index.php");

        } else {

            echo "<div class='form'>

                  <h3>Incorrect Username/password.</h3><br/>

                  <p class='link'>Click here to <a href='login.php'>Login</a> again.</p>

                  </div>";

        }

    } else {

?>

    <form class="form" method="post" name="login">

        <h1 class="login-title">Login</h1>

        <input type="text" class="login-input" name="username" placeholder="Username" autofocus="true"/>

        <input type="password" class="login-input" name="password" placeholder="Password"/>

        <input type="submit" value="Login" name="submit" class="login-button"/>

        <p class="link"><a href="signup.php">Sign up</a></p>

  </form>

<?php

    }

?>

</body>

</html>

Db.php

<?php

    $servername='localhost';

    $username='root';

    $password='';

    $dbname = "visualization";

    $conn=mysqli\_connect($servername,$username,$password,"$dbname");

      if(!$conn){

          die('Could not Connect MySql Server:' .mysql\_error());

        }

?>

Session.php

<?php

    session\_start();

    if(!isset($\_SESSION["username"])) {

        header("Location: login.php");

        exit();

    }

?>

Logout.php

<?php

    session\_start();

    // Destroy session

    if(session\_destroy()) {

        // Redirecting To login

        header("Location: login.php");

    }

?>

Dashboard.php

<?php

//include auth\_session.php file on all user panel pages

include("session.php");

?>

<!DOCTYPE html>

<html>

<head>

    <meta charset="utf-8">

    <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600;700;900&display=swap" rel="stylesheet">

    <style >

header {

    background: linear-gradient(rgba(0, 0, 0, 0.8), rgba(0, 0, 0, 0.8)), url(./image/1.jpg);

    height: 100vh;

    -webkit-background-size: cover;

    background-size: cover;

    background-position: center center;

    position: relative;

}

ul{

    float: right;

    list-style-type: none;

}

ul li {

    display: inline-block;

}

ul li a{

    text-decoration:none;

    color:#fff;

    padding:5px 20px;

    border: 1px solid #fff;

    transition: 0.6s ease;

}

ul li a: hover{

    background-color:#fff;

    color:#000;

}

.main{

    max-width:1200px;

    margin:auto;

}

        </style>

    <title>Dashboard </title>

</head>

<body>

    <header>

        <div class="main">

            <ul>

                <li><a href="index.php">Home</a></li>

                <li><a href="upload\_ui.php">upload csv</a></li>

                <li><a href="view.php">view csv</a></li>

                <li><a href="logout.php">Logout</a></li>

            </ul>

</div>

<div class="form">

        <h1 style="color:white">Home page.</h1>

        <h1 style="color:white">Welcome : <?php echo $\_SESSION['username']; ?></h1>

    </div>

</header>

</body>

</html>

Style.css

.form {

    margin: 100px auto;

    width: 300px;

    padding: 30px 25px;

    background: white;

}

h1.login-title {

    color: #666;

    margin: 0px auto 25px;

    font-size: 25px;

    font-weight: 300;

    text-align: center;

}

.login-input {

    font-size: 15px;

    border: 1px solid #ccc;

    padding: 10px;

    margin-bottom: 25px;

    height: 25px;

    width: calc(100% - 23px);

}

.login-input:focus {

    border-color:#6e8095;

    outline: none;

}

.login-button {

    color: #fff;

    background: #55a1ff;

    border: 0;

    outline: 0;

    width: 100%;

    height: 50px;

    font-size: 16px;

    text-align: center;

    cursor: pointer;

}

.link {

    color: #666;

    font-size: 15px;

    text-align: center;

    margin-bottom: 0px;

}

.link a {

    color: #666;

}

h3 {

    font-weight: normal;

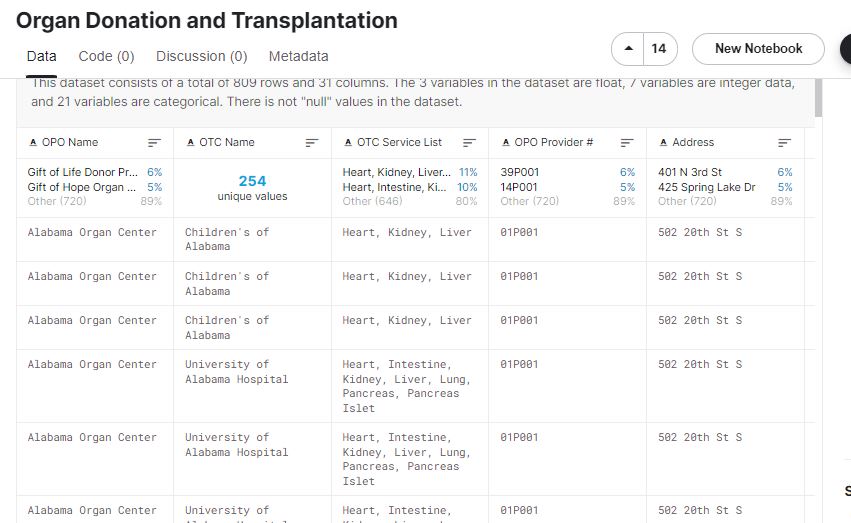
    text-align: center;

}

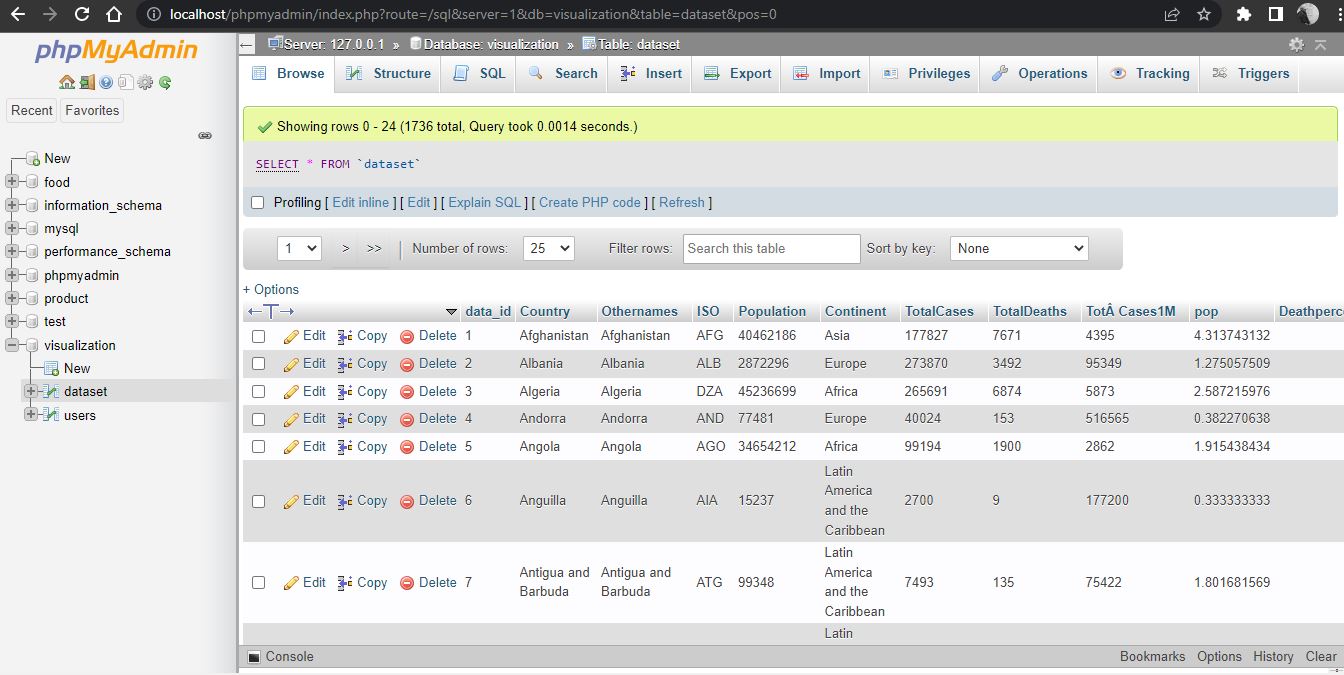
1. **Screenshots**

Put the different screenshots with a brief description in this section (at least 6 screenshots).

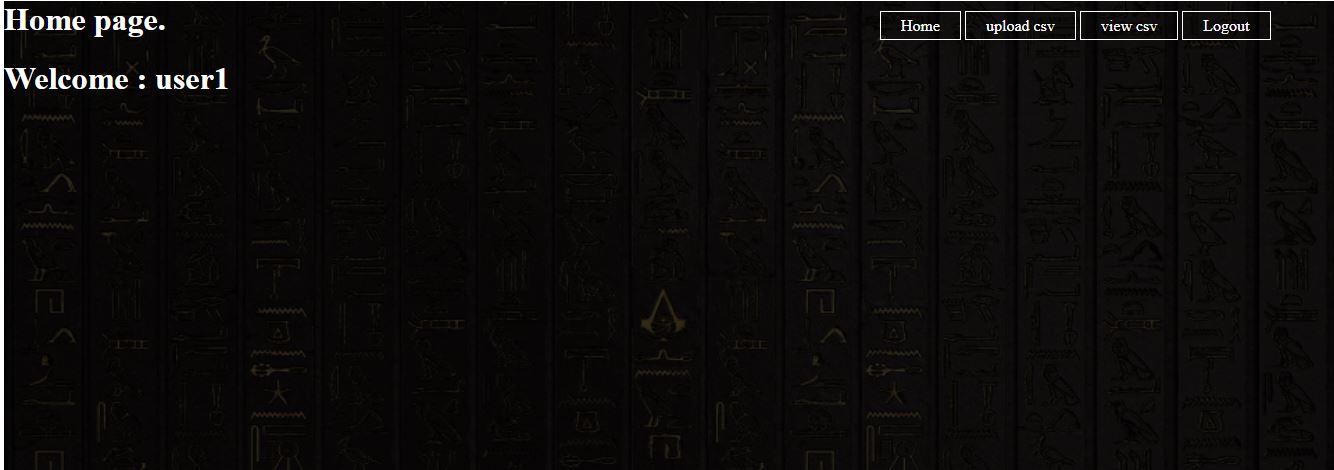
The dataset used



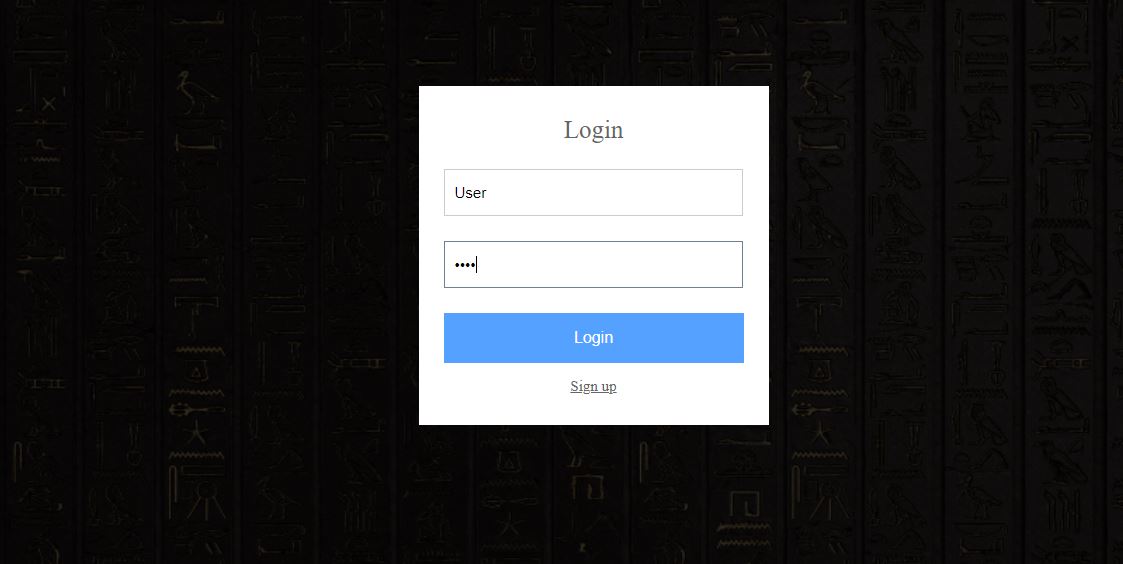
This is the table that is used to store the dataset



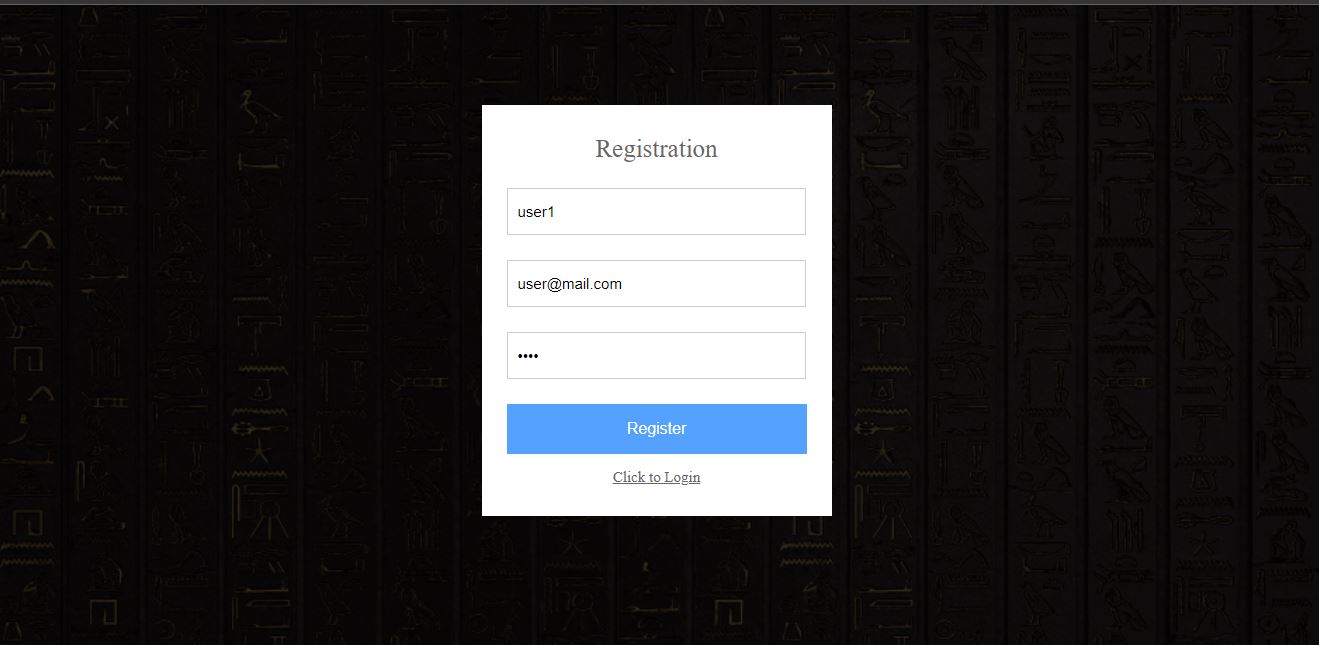
Dashboard the will be displayed using login



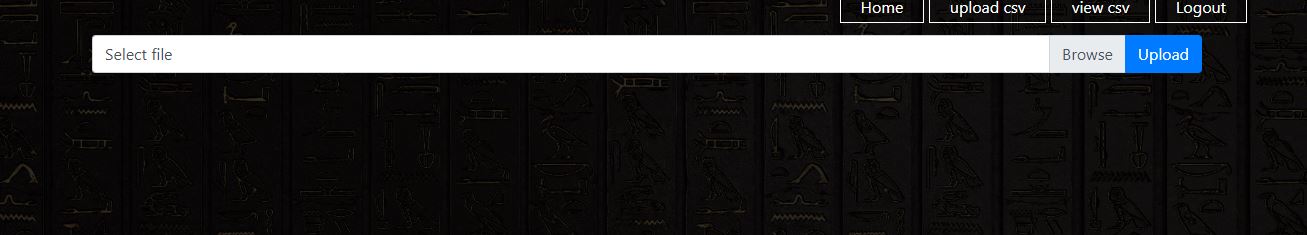
This is the login page that creates a session



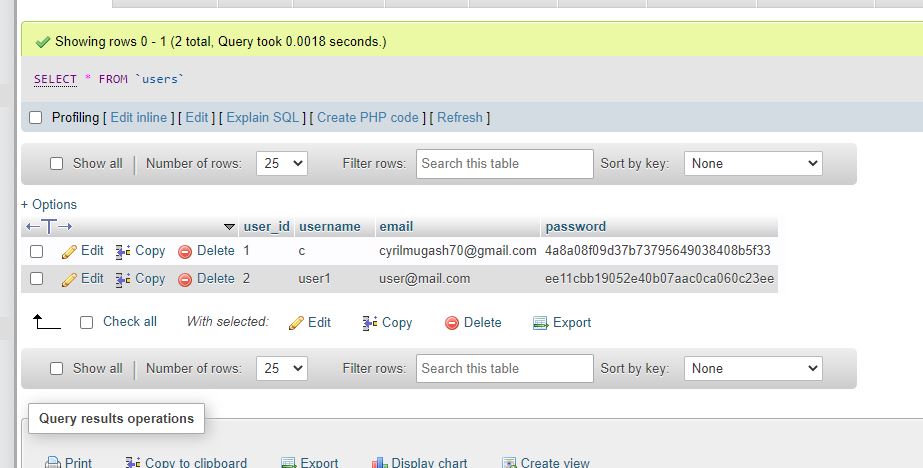
This is the registration form used to create new users



This is the upload path that is used to browse and upload



This is the user Table for the login part



Visualization

Graph of all total cases compared to countries

