**BSc (Hons.) in Information Technology/BIT (Hons.) in Networking and Mobile**

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# **Assignment: PHP**

A CSV file using PHP

**PHP Code**:

*html>*

*<head>*

*<title>csv</title>*

*<style>*

*table {*

*border-collapse: collapse;*

*width: 100%;*

*}*

*th, td {*

*padding: 8px;*

*border-bottom: 1px solid black;*

*text-align: center;*

*}*

*</style>*

*</head>*

*<body>*

*<?php*

*$file = fopen("imdb\_top\_1000.csv", "r");*

*// Read the header row*

*$headers = fgetcsv($file);*

*// Display the table headers*

*echo "<table >";*

*echo "<caption>Reading A CSV File Using A PHP</caption>";*

*echo "<thead>";*

*echo "<tr>";*

*echo "<th align='center'>Poster</th>";*

*echo "<th>Title</th>";*

*echo "<th>Released Date</th>";*

*echo "<th>Runtime</th>";*

*echo "<th>Genre</th>";*

*echo "<th>IMDB Ranking</th>";*

*echo "<th>Director</th>";*

*echo "</tr>";*

*echo "</thead>";*

*// Loop through the remaining rows*

*while (($row = fgetcsv($file)) !== false) {*

*// Check if IMDB\_Rating is higher than 8.5*

*if ($row[5] > 8.5) {*

*// Display the movie information in table format*

*echo "<tbody>";*

*echo "<tr>";*

*echo "<td align='center'><img src='" . $row[0] . "' alt='" . $row[1] . " Poster'><br></td>";*

*echo "<td> " . $row[1] . "<br></td>";*

*echo "<td> " . $row[2] . "<br></td>";*

*echo "<td> " . $row[4] . "<br></td>";*

*echo "<td> " . $row[5] . "<br></td>";*

*echo "<td> " . $row[6] . "<br></td>";*

*echo "<td> " . $row[9] . "<br></td>";*

*echo "</tr>";*

*echo "</tbody>";*

*}*

*}*

*fclose($file);*

*// Close the table*

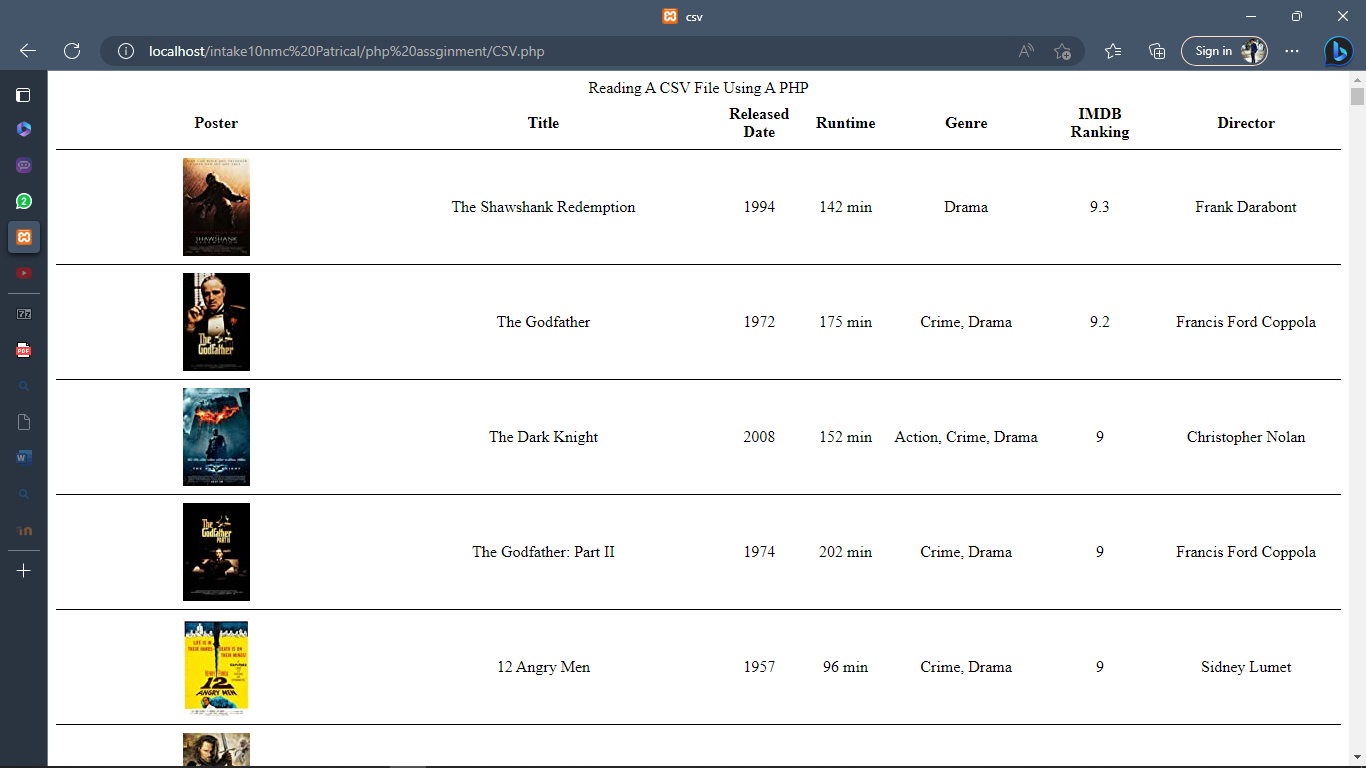
*echo "</table>";*

*?>*

*</body>*

*</html>*

**Out Put :**

****

# 2. Upload personal information into database

## Write a code to display following form output.

**Php Code:**

*<html>*

*<head>*

*<title>Form</title>*

*<style>*

*table {*

*width: 100%;*

*border-left: 50;*

*border: 2;*

*border-spacing: 10px;*

*border-collapse: collapse;*

*}*

*th, td {*

*text-align:left;*

*padding: 10px;*

*}*

*tr {*

*border: 1px solid lightblue;*

*}*

*}*

*.center {*

*text-align: center;*

*}*

*input[type=text] {*

*background-color: white;*

*border: 2px solid lightblue;*

*}*

*</style>*

*</head>*

*<body>*

*<?php*

*// Database connection parameters*

*$servername = "localhost";*

*$username = "root";*

*$password = "";*

*$dbname = "personal\_data";*

*// Create connection*

*$conn = new mysqli($servername, $username, $password, $dbname);*

*// Check connection*

*if ($conn->connect\_error) {*

*die("Connection failed: " . $conn->connect\_error);*

*}*

*if ($\_SERVER["REQUEST\_METHOD"] == "POST") {*

*// Get input values*

*$index\_no = $\_POST["index\_no"];*

*$first\_name = $\_POST["first\_name"];*

*$last\_name = $\_POST["last\_name"];*

*$city = $\_POST["city"];*

*$mobile\_number = $\_POST["mobile\_number"];*

*$target\_dir = "image/";*

*$target\_file = $target\_dir . basename($\_FILES["fileToUpload"]["name"]);*

*$uploadOk = 1;*

*$imageFileType = strtolower(pathinfo($target\_file,PATHINFO\_EXTENSION));*

*// Check file size*

*if ($\_FILES["fileToUpload"]["size"] > 500000) {*

*echo "Sorry, your file is too large.";*

*$uploadOk = 0;*

*}*

*// Allow certain file formats*

*if($imageFileType != "jpg" && $imageFileType != "png" && $imageFileType != "jpeg"*

*&& $imageFileType != "gif" ) {*

*echo "Sorry, only JPG, JPEG, PNG & GIF files are allowed.";*

*$uploadOk = 0;*

*}*

*// Check if $uploadOk is set to 0 by an error*

*if ($uploadOk == 0) {*

*echo "Sorry, your file was not uploaded.";*

*// if everything is ok, try to upload file*

*} else {*

*if (move\_uploaded\_file($\_FILES["fileToUpload"]["tmp\_name"], $target\_file)) {*

*echo "The file ". htmlspecialchars( basename( $\_FILES["fileToUpload"]["name"])). " has been uploaded.";*

*} else {*

*echo "Sorry, there was an error uploading your file.";*

*}*

*}*

*$insert = "INSERT INTO personal\_info (index\_no, first\_name, last\_name, city, mobile\_number, photo) VALUES ('$index\_no', '$first\_name', '$last\_name', '$city', '$mobile\_number', '$target\_file')";*

*if(mysqli\_query($conn, $insert)){*

*echo 'Data inserted successfully';*

*}*

*else{*

*echo 'Error: '.mysqli\_error($conn);*

*}*

*}*

*// Close connection*

*$conn->close();*

*?>*

*<h2>Uploud Personal Information into the DataBase Using PHP </h2>*

*<form method="post" enctype="multipart/form-data">*

*<table>*

*<tr>*

*<td>*

*<label for="index\_no"><b>Index Number:</b></label>*

*<input type="text" name="index\_no" required><br>*

*</td>*

*</tr>*

*<tr>*

*<td>*

*<label for="first\_name"><b>First Name:</b></label>*

*<input type="text" name="first\_name" required><br>*

*</td>*

*</tr>*

*<tr>*

*<td>*

*<label for="last\_name"><b>Last Name:</b></label>*

*<input type="text" name="last\_name" required><br>*

*</td>*

*</tr>*

*<tr>*

*<td>*

*<label for="city"><b>City:</b></label>*

*<input type="text" name="city" required><br>*

*</td>*

*</tr>*

*<tr>*

*<td>*

*<label for="mobile\_number"><b>Mobile Number:</b></label>*

*<input type="text" name="mobile\_number" required><br>*

*</td>*

*</tr>*

*<tr>*

*<td>*

*<label for="photo"><b>Photo:</b></label>*

*<input type="file" name="fileToUpload"><br>*

*</td>*

*</tr>*

*<tr>*

*<td>*

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

*</td>*

*</tr>*

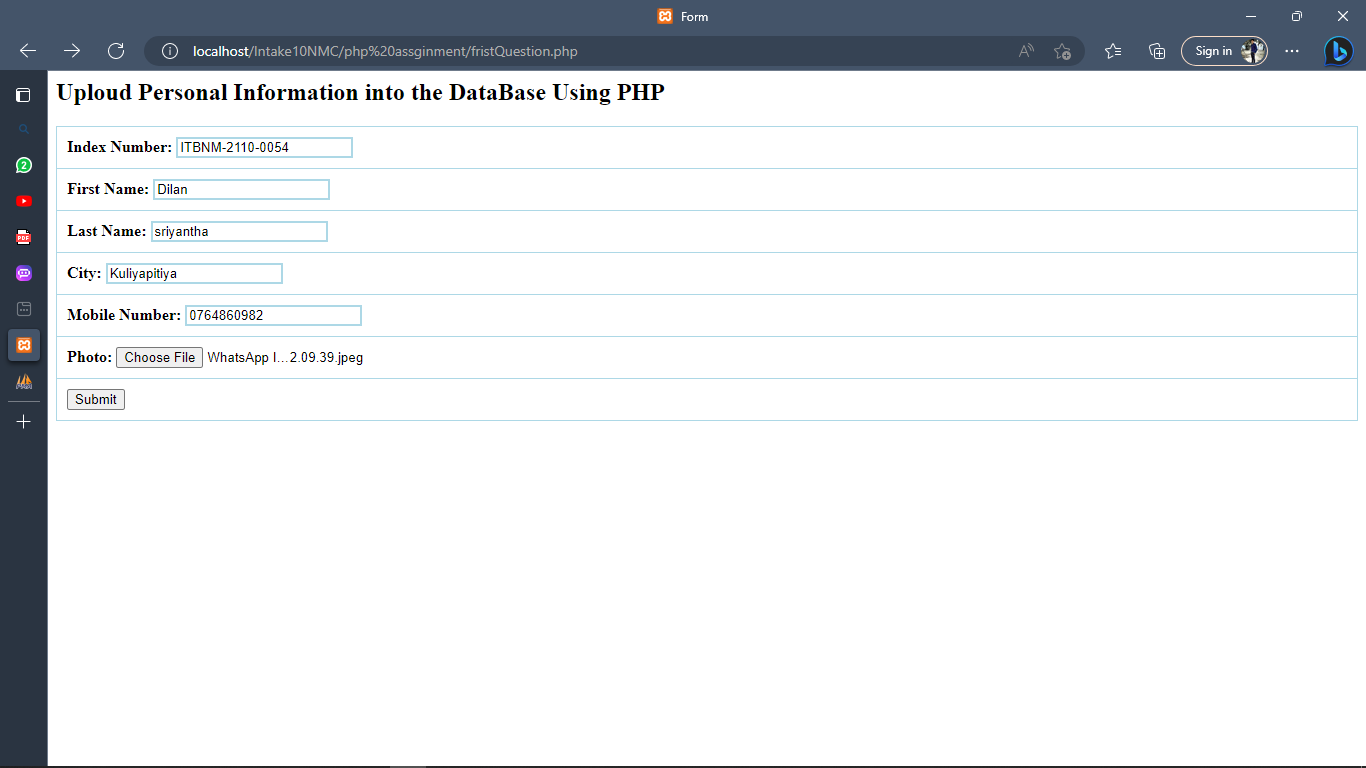
*</table>*

*</form>*

*</body>*

*</html>*

**Output:**

****

## Submit your information and display output as follows (You should have to use your information).

Do relevant server side validations - Validation Criteria

● Don’t duplicate same records

● Check validity of Index number and mobile number

● Photo size is less than 1MB

**PHP Code:**

*<html>*

*<head>*

*<title>Form</title>*

*<style>*

*table {*

*width: 100%;*

*border-top-width: 50;*

*border: 1;*

*border-spacing: 10px;*

*border-collapse: collapse;*

*}*

*th, td {*

*padding: 1px;*

*text-align:left;*

*padding: 10px;*

*}*

*tr {*

*border: 2px solid lightblue;*

*}*

*img {*

*display: block;*

*margin: auto;*

*max-width: 100%;*

*height: auto;*

*}*

*}*

*.center {*

*text-align: center;*

*}*

*</style>*

*</head>*

*<body>*

*<?php*

*// Database connection parameters*

*$servername = "localhost";*

*$username = "root";*

*$password = "";*

*$dbname = "personal\_data";*

*// Create connection*

*$conn = new mysqli($servername, $username, $password, $dbname);*

*// Check connection*

*if ($conn->connect\_error) {*

*die("Connection failed: " . $conn->connect\_error);*

*}*

*if ($\_SERVER["REQUEST\_METHOD"] == "POST") {*

*// Get input values*

*$index\_no = $\_POST["index\_no"];*

*$first\_name = $\_POST["first\_name"];*

*$last\_name = $\_POST["last\_name"];*

*$city = $\_POST["city"];*

*$mobile\_number = $\_POST["mobile\_number"];*

*// Validate input values*

*if (!preg\_match("/^ITBNM-\d{4}-\d{4}$/", $index\_no)) {*

*echo "Invalid index number";*

*exit();*

*}*

*if (!preg\_match("/^ITBNM-\d{4}-\d{4}$/", $mobile\_number)) {*

*echo "Invalid mobile number";*

*exit();*

*}*

*// Upload image*

*$image\_name = $\_FILES["photo"]["name"];*

*// Check if an image was uploaded*

*if (!empty($image\_name)) {*

*$image\_data = file\_get\_contents($\_FILES["photo"]["tmp\_name"]);*

*// Check image size*

*if ($\_FILES["photo"]["size"] > 1000000) {*

*echo "Photo size must be less than 1MB";*

*exit();*

*}*

*} else {*

*$image\_data = null;*

*}*

*// Prepare and execute SQL statement to insert personal information*

*$stmt = $conn->prepare("INSERT INTO personal\_info (index\_no, first\_name, last\_name, city, mobile\_number, photo) VALUES (?, ?, ?, ?, ?, ?)");*

*$stmt->bind\_param("issssb", $index\_no, $first\_name, $last\_name, $city, $mobile\_number, $image\_data);*

*if ($stmt->execute()) {*

*echo "Record inserted successfully";*

*} else {*

*echo "Error inserting record: " . $conn->error;*

*}*

*// Close statement*

*$stmt->close();*

*}*

*// Query the database for the user information*

*$sql = "SELECT index\_no, first\_name, last\_name, city, mobile\_number, photo FROM personal\_info";*

*$result = mysqli\_query($conn, $sql);*

*// Check if there are any results*

*if (mysqli\_num\_rows($result) > 0) {*

*// Output each row of data*

*while ($row = mysqli\_fetch\_assoc($result)) {*

*echo" <h2><center>Uploud Personal Information into the DataBase Using PHP </center></h2>";*

*echo"<table>";*

*echo"<tr>";*

*echo "<td><img src='" . $row['photo'] . "' width='200' height='200'> <br>" ;echo"</td>";*

*echo"</tr>";*

*echo"<center>";*

*echo"<tr>";*

*echo"<td> Full Name: ". $row["first\_name"] . $row["last\_name"] . "<br> " ;echo"</td>";*

*echo"</tr>";*

*echo"<tr>";*

*echo "<td>City: " . $row["city"] . "<br></td>";*

*echo"</tr>";*

*echo"<tr>";*

*echo "<td>Index Number: " . $row["index\_no"] . "<br></td>";*

*echo"</tr>";*

*echo"<tr>";*

*echo "<td>Mobile Number: " . $row["mobile\_number"] . "<br></td>";*

*echo"</tr>";*

*echo"</center>";*

*echo"</table>";*

*}*

*} else {*

*echo "No user information found.";*

*}*

*// Close connection*

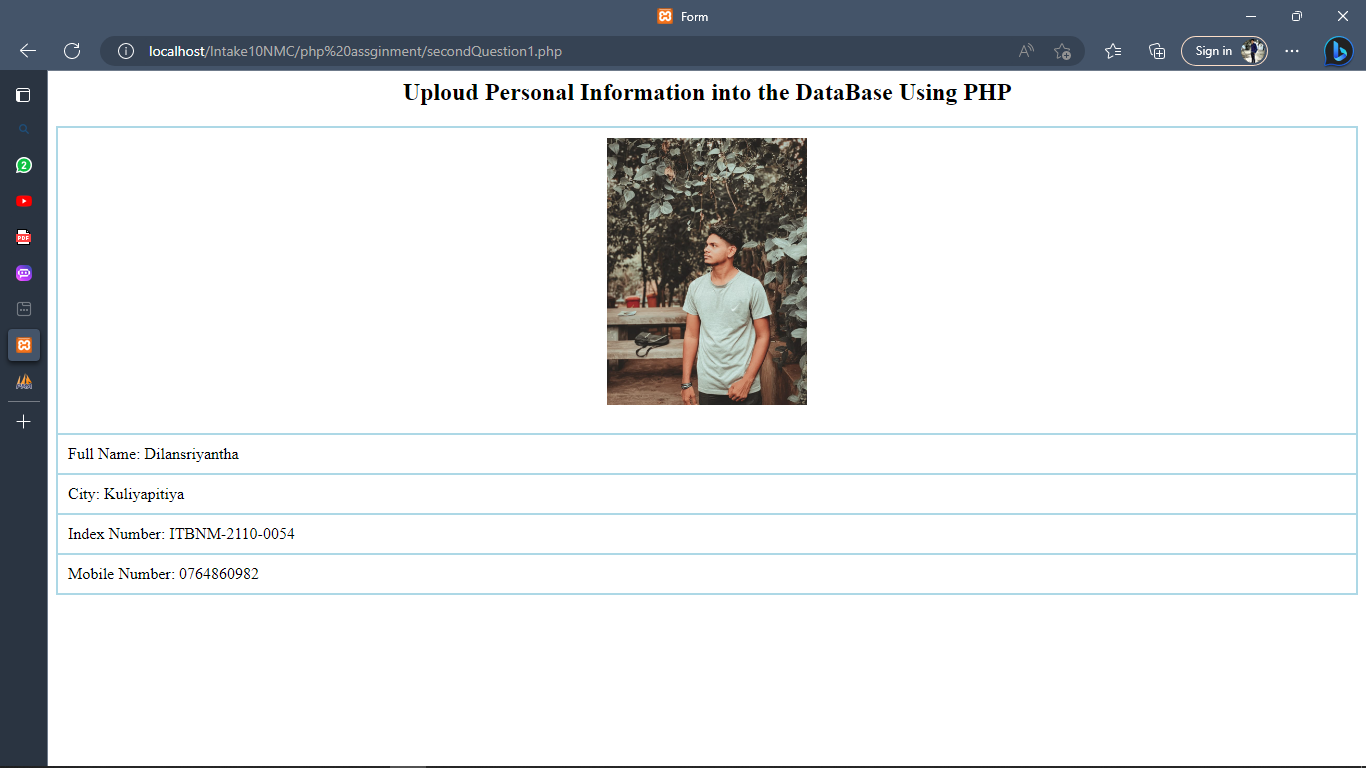
*$conn->close();*

*?>*

*</body>*

*</html>*

**Out Put:**



## C. Insert at least five(5) records into a database using above form (Use PHP Data Object connection method).

**PHP Code:**

*<html>*

*<head>*

*<title>output</title>*

*<style>*

*table {*

*border-collapse: collapse;*

*width: 100%;*

*}*

*th, td {*

*padding: 8px;*

*text-align: center;*

*}*

*tr {*

*border: 2px solid lightblue;*

*}*

*img {*

*display: block;*

*margin: auto;*

*max-width: 100%;*

*height: auto;*

*}*

*</style>*

*</head>*

*<body>*

*<?php*

*// Database connection parameters*

*$servername = "localhost";*

*$username = "root";*

*$password = "";*

*$dbname = "personal\_data";*

*// Create connection using PDO*

*try {*

*$conn = new PDO("mysql:host=$servername;dbname=$dbname", $username, $password);*

*// set the PDO error mode to exception*

*$conn->setAttribute(PDO::ATTR\_ERRMODE, PDO::ERRMODE\_EXCEPTION);*

*} catch(PDOException $e) {*

*echo "Connection failed: " . $e->getMessage();*

*exit();*

*}*

*// Insert five records into the database*

*$stmt = $conn->prepare("INSERT INTO personal\_info (index\_no, first\_name, last\_name, city, mobile\_number, photo) VALUES (:index\_no, :first\_name, :last\_name, :city, :mobile\_number, :photo)");*

*$stmt->bindParam(':index\_no', $index\_no);*

*$stmt->bindParam(':first\_name', $first\_name);*

*$stmt->bindParam(':last\_name', $last\_name);*

*$stmt->bindParam(':city', $city);*

*$stmt->bindParam(':mobile\_number', $mobile\_number);*

*$stmt->bindParam(':photo', $image\_data);*

*/\*for ($i = 0; $i < 5; $i++) {*

*$index\_no = rand(100, 99999); // generate a random index number*

*$first\_name ="John";*

*$last\_name = "Doe";*

*$city = "New York";*

*$mobile\_number = "555-555-5555";*

*$photo\_data = null; // set the photo data to null for testing purposes*

*$stmt->execute();*

*}*

*\*/*

*// Display all records from the database*

*$stmt = $conn->prepare("SELECT \* FROM personal\_info");*

*$stmt->execute();*

*$result = $stmt->fetchAll(PDO::FETCH\_ASSOC);*

*echo" <h2><center>Displaying Personal Information into the DataBase Using PHP </center></h2>";*

*echo "<table>";*

*echo "<tr><th>Id</th><th>Photo</th><th>First Name</th><th>Last Name</th><th>City</th><th>Index No</th><th>Mobile Number</th></tr>";*

*$i = 1;*

*foreach ($result as $row) {*

*echo "<tr>";*

*echo "<td>".$i++."</td>";*

*// ...*

*if ($row['photo']) {*

*$image\_data = ($row['photo']);*

*echo "<td><img src='" . $image\_data . "' width='50' height='50'></td>";*

*} else {*

*echo "No photo uploaded";*

*}echo "</td>";*

*echo "<td>".$row['first\_name']."</td>";*

*echo "<td>".$row['last\_name']."</td>";*

*echo "<td>".$row['city']."</td>";*

*echo "<td>".$row['index\_no']."</td>";*

*echo "</td>";*

*echo "<td>".$row['mobile\_number']."</td>";*

*// display whether a photo was uploaded or not*

*echo "</tr>";*

*}*

*echo "</table>";*

*// Close the connection*

*$conn = null;*

*?>*

*</body>*

*</html>*

## D. Display all records from the database (Sample out as follows)



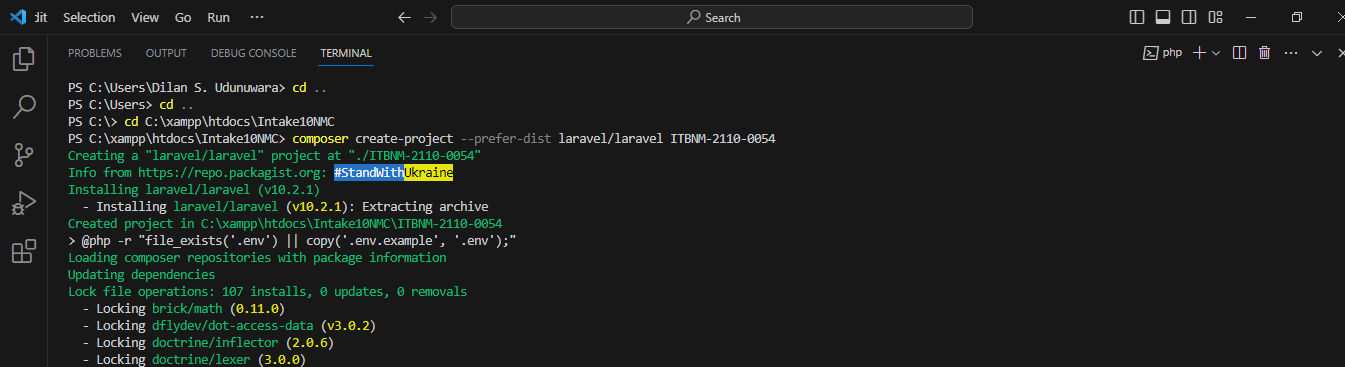


3. Creating Laravel project.

You are asked to develop a laravel project. Assume you are in the document root in the webserver.

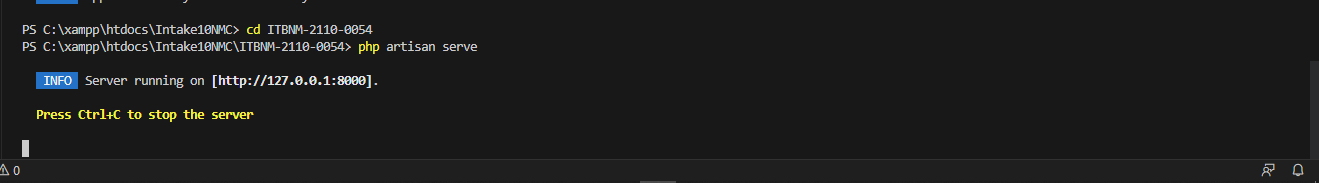
## Create a project, name it using your index number.

**Code***: composer create-project --prefer-dist laravel/laravel ITBNM-2110-0054*

**

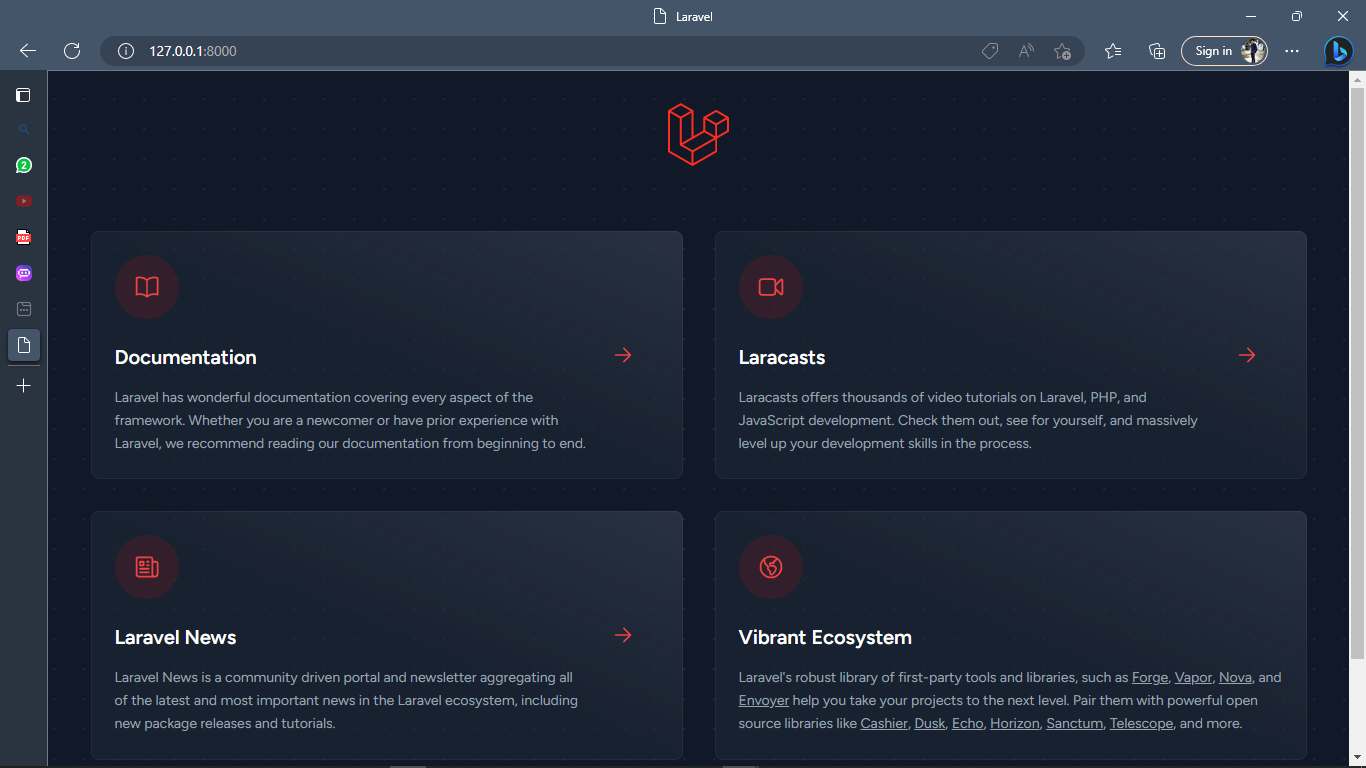
## Start development Server.

**Code***:* *php artisan serve*



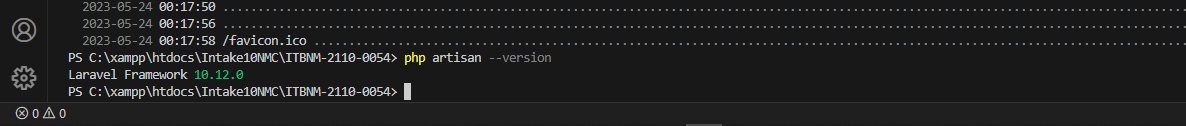
## Show Laravel first page.

The Laravel first page can be accessed by opening a web browser and navigating to [**http://localhost:8000/**](http://localhost:8000/)

****

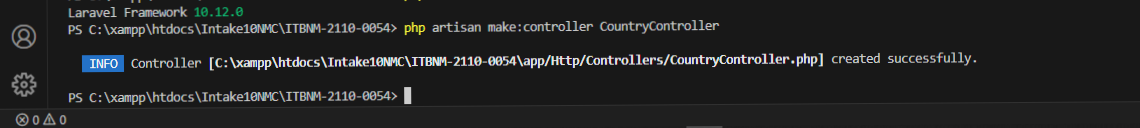
## Check your Laravel version.

**Code:** *php artisan –version*

**

## Create a controller called “countryController''.

**Code***: php artisan make:controller CountryController*



f. Connect to MySQL Database

**Name : intake10nmc**

**Open the .inv file in the project directory and update following variables**

*DB\_CONNECTION=mysql*

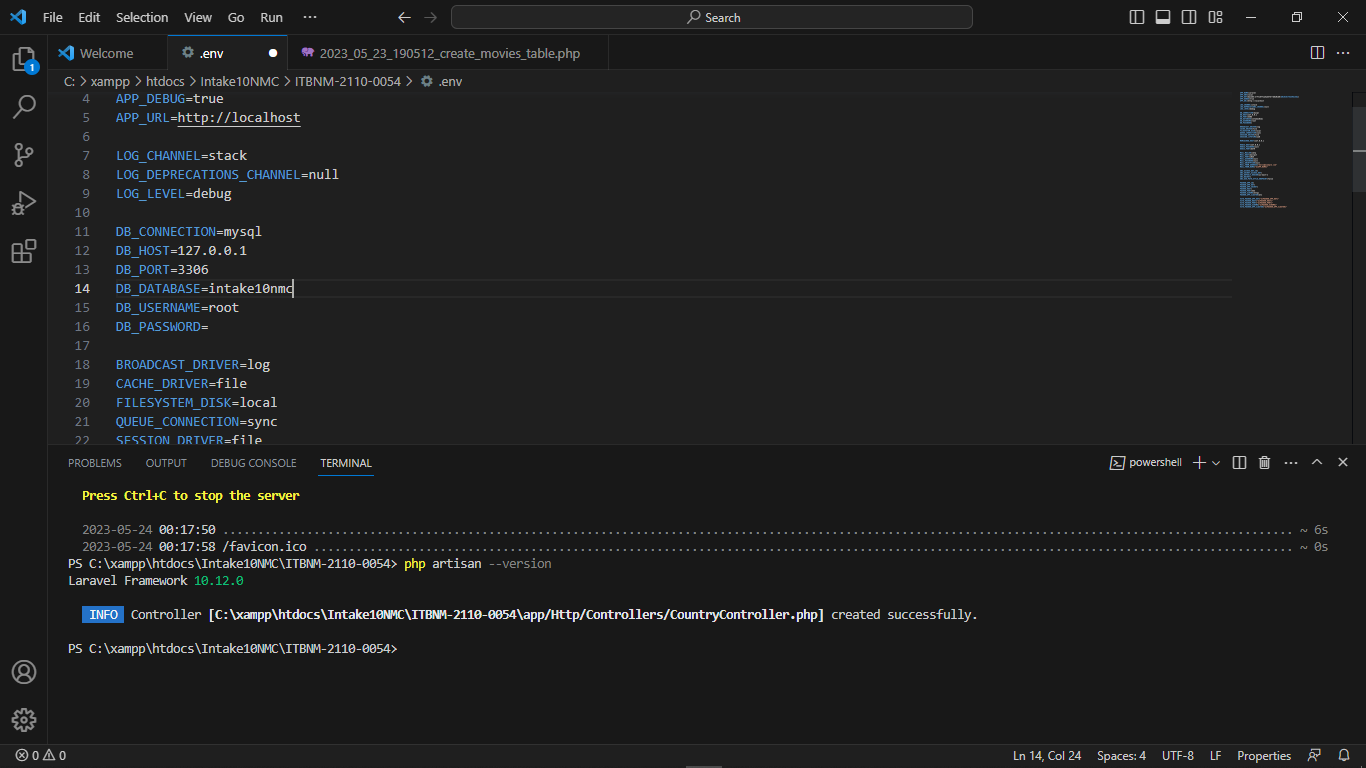
*DB\_HOST=127.0.0.1*

*DB\_PORT=3306*

*DB\_DATABASE=intake10nmc*

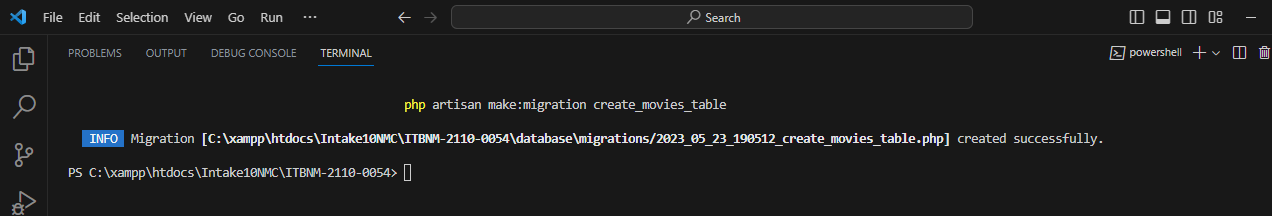
*DB\_USERNAME=your-username*

*DB\_PASSWORD=your-password*



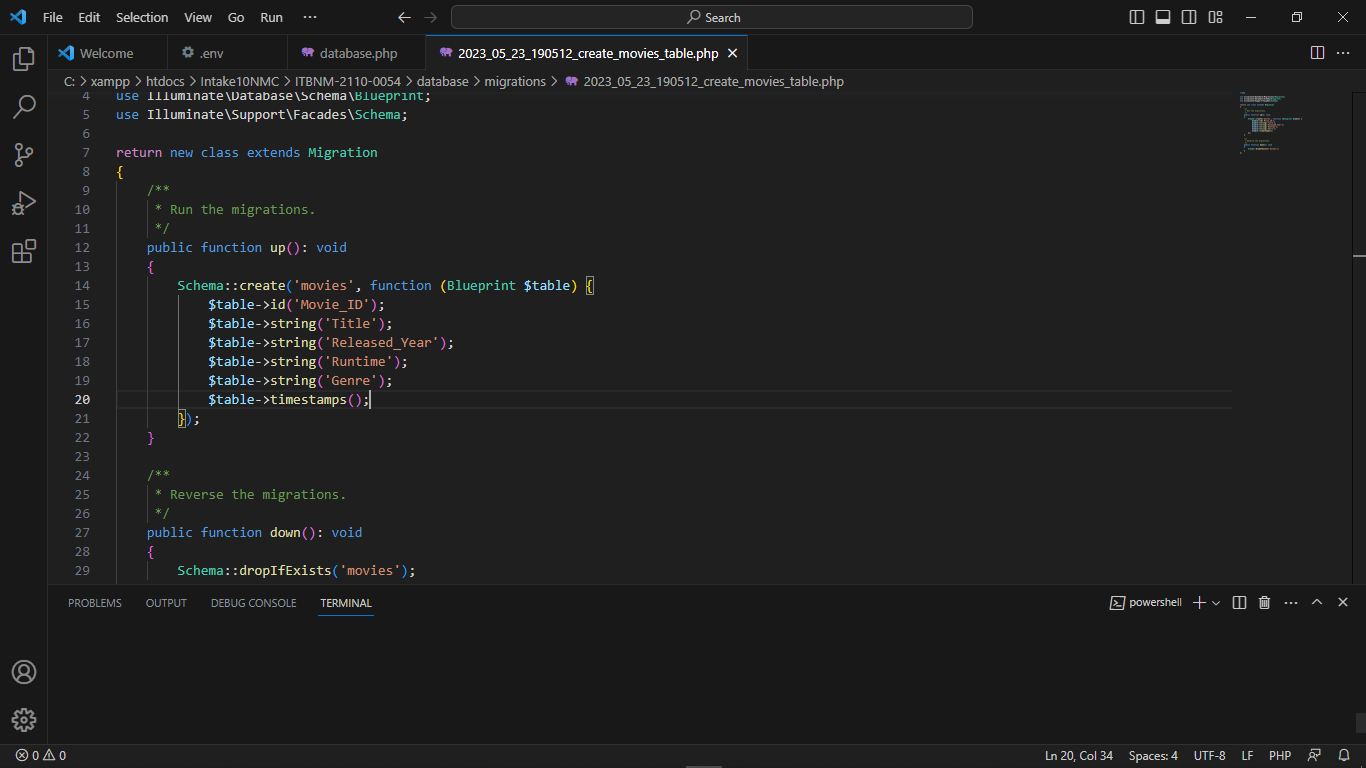
## g.Make a table called “movies”.

**Code:** *php artisan make:migration create\_movies\_table --create=movies*

**

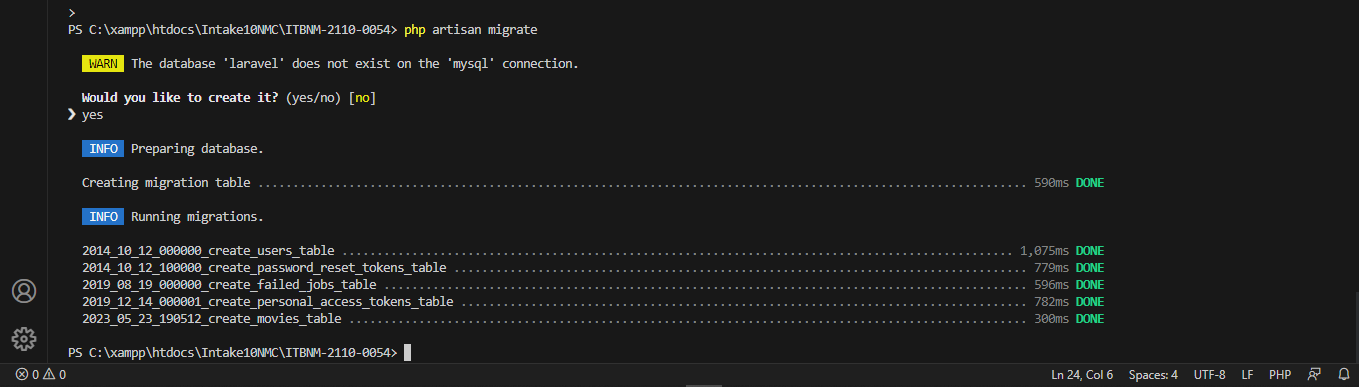
## h. Add following fields to the table created above.

* Movie\_ID (int)
* Auto increment Title (String)
* Released\_Year (String)
* Runtime (String)
* Genre (String)



## i. Display structure of movies table.

**Code:** *php artisan migrate*



## j. Create a model called “movieModel”.

**Code:** *php artisan make:model movieModel*

