Institute of Technology of Cambodia

Department of Information and Communication Engineering

Assignment TP14

TP14: PHP, Laravel

Group: I4 GIC(C)

Lecturers	Subjects
HOK TIN	TP Internet-Programming II(IP)
Student's Name:	ID
ROTHA DAPRAVITH	e20190915

Academic Year: 2022 ~ 2023

Table of Contents

GITHUB'S REPOSITORY: HTTPS://GITHUB.COM/DAPRAVITH/TP_INTERNET_PROGRAMMING/TREE/TP14 --------- 2

CONSTANT ---------- 2

RESULT OF CONSTANT ---------- 2

STRING CONCATENATION ---------- 3

RESULT OF STRING CONCATENATION ---------- 3

ARITHMETIC ---------- 4

RESULT OF ARITHMETIC ---------- 4

ASSIGNMENT ---------- 5

RESULT OF ASSIGNMENT ---------- 5

LOGICAL ---------- 6

RESULT OF EXERCISE5 ---------- 6

IF ELSE STATEMENT ---------- 7

RESULT OF IF ELSE STATEMENT ---------- 7

ELSEIF STATEMENT ---------- 8

RESULT OF ELSEIF STATEMENT ---------- 8

SWITCH STATEMENT ---------- 9

RESULT OF SWITCH STATEMENT ---------- 9

WHILE LOOP ---------- 10

RESULT OF WHILE LOOP ---------- 10
DO-WHILE LOOP ---------- 11
RESULT OF DO-WHILE LOOP ---------- 11

FOR LOOP ---------- 12

RESULT OF FOR LOOP ---------- 12

NUMERIC ARRAY ---------- 13

RESULT OF NUMERIC ARRAY ---------- 13

MULTI-DIMENSIONAL ARRAY ---------- 14

RESULT OF MULTI-DIMENSIONAL ARRAY ---------- 14

SESSION ---------- 15

RESULT OF SESSION ---------- 15

PHP FORM ---------- 16

INDEXGET.PHP ---------- 16
RESULT OF INDEXGET.PHP ---------- 16
INDEXPOST.PHP ---------- 17

RESULT OF INDEXPOST.PHP ---------- 17

REGISTRATIONGET.PHP ----- **17**
RESULT OF REGISTRATIONGET.PHP ----- 18
REGISTRATIONPOST.PHP ----- **18**
RESULT OF REGISTRATIONPOST ----- **18**
REGISTRATIONCHECK.PHP ----- **19**
REGISTRATIONFORM.PHP ----- 19
RESULT OF REGISTRATIONCHECK.PHP ----- **20**
PHP FILE UPLOAD ----- **21**
FILEUPLOAD.PHP ----- 21
FILEUPLOADHANDLE.PHP ----- **21**
RESULT OF FILE UPLOAD ----- 22
PHP COMPOSER ----- **22**
PHP INTERVENTION IMAGE ----- **22**
DESCRIBE DIRECTORY STRUCTURE OF LARAVEL PROJECT. ----- **23**
SETUP FIRST LARAVEL PROJECT TO SAY: "HELLO WORLD." ----- **24**
RESULT AFTER SETUP FIRST LARAVEL PROJECT: ----- 24

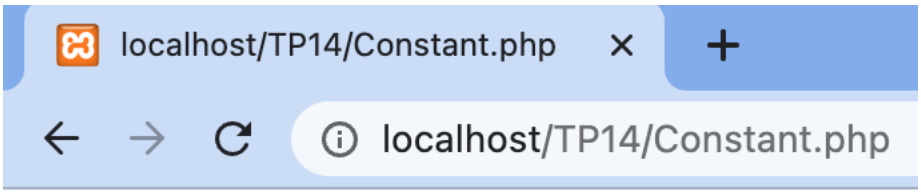
GitHub's Repository:
https://github.com/Dapravith/TP_Internet_Programming/tree/TP14

Constant

Constant.php

```php
<html>
<?php
        define("EMAIL", "dapravith@example.com");
        echo EMAIL."<br>";

        define("myCon", true);
        if(myCon){
            echo EMAIL."<br>";
        }
        define("ONECONSTANT", "some value");

        define("CONSTANT", "Hello world.");
        echo CONSTANT."<br>";
    ?>

</html>
```

Result of Constant



dapravith@example.com
dapravith@example.com
Hello world.

String Concatenation

README.md 5 | Constant.php | StringConcatenation.php

StringConcatenation.php

```php
<html>
    <?php
        $like = "I like php";
        $num = 8;
        echo $like . $num;

        echo "<p>";
        echo $like . " " . $num;
        echo "</p>";

        echo "My favorite php version is $num";
    ?>
</html>
```

Result of String Concatenation

I like php8

I like php 8

My favorite php version is 8

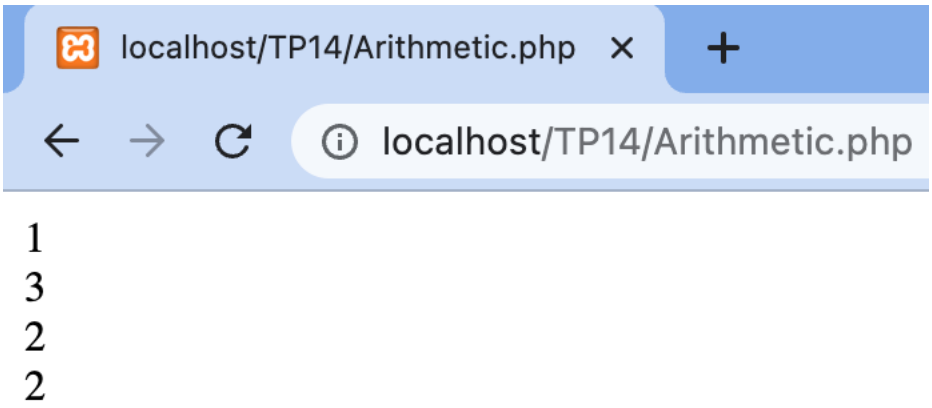
Arithmetic

README.md 5 | Constant.php | Arithmetic.php

Arithmetic.php

```php
<html>
    <?php
        $var = 1;
        echo $var++ . "<br>";
        echo ++$var . "<br>";
        echo --$var . "<br>";
        echo $var--;
    ?>
</html>
```

Result of Arithmetic



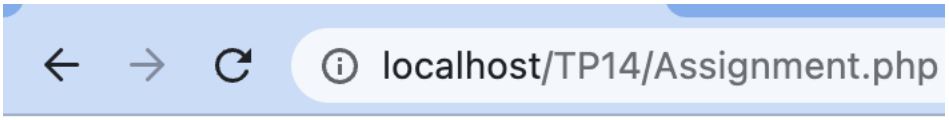
Assignment

README.md 5 | Constant.php | Assignment.php

Assignment.php

```php
<html>
    <?php
        $var = "value"; //constant value
        echo $var . "<br>";

        $var = 1; to value 1
        echo $var . "<br>";

        $var += 3; // change to vaule 4
        echo $var . "<br>";
    ?>
</html>
```

Result of Assignment



value
1
4

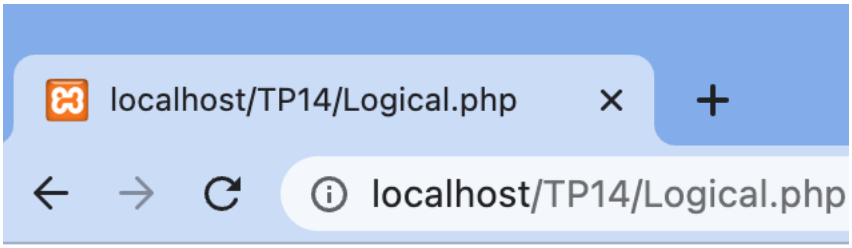
Logical

README.md 5 | Constant.php | Logical.php

Logical.php

```php
<html>
    <?php
        $name = "Rotha";
        $lastName = "Dapravith";
        echo $name . " " . $lastName;
        echo "<br><br>";
        $a = "Hello";
        $a .= " Rotha!";
        echo $a;
    ?>
</html>
```

Result of Exercise5



Rotha Dapravith

Hello Rotha!

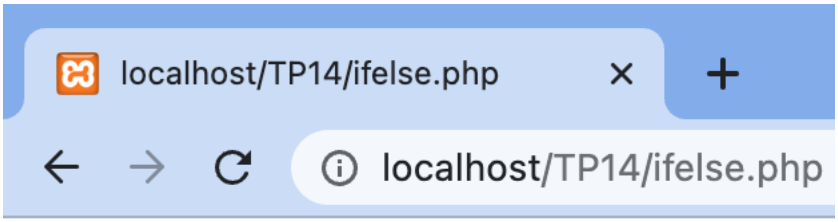
If Else Statement

README.md 5 | Constant.php | Logical.php | IfElse.php

IfElse.php

```php
<html>
<body>
  <?php

   $data = date("m-d-y");
   if($data == "07-11-2023"){
     echo "Wishing you a very Happy BirthDay";
   }else{
     echo "$data";
   }

  ?>

</body>
</html>
```

Result of If Else Statement



07-11-23

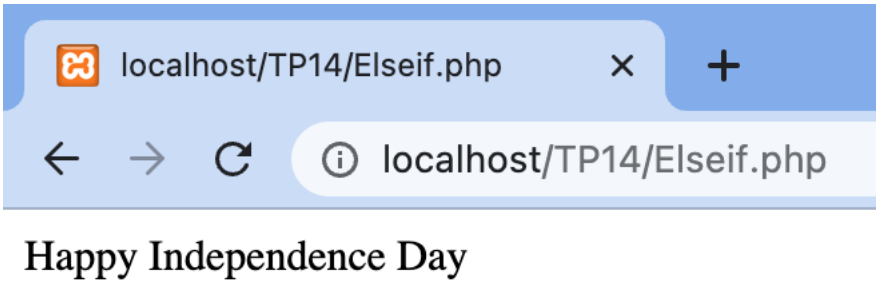
Elseif Statement

README.md 5 | Constant.php | Logical.php | IfElse.php | Elseif.php

Elseif.php

```php
<html>
    <?php
        $date=date("m-d");

        if ($date=="01-10") {
            echo "Wishing you a very Happy Bithday";
        }
        else if ($date=="08-15") {
            echo "Happy Independence Day";
        }
        else {
            //nothing
        }
    ?>
</html>
```

Result of Elseif Statement



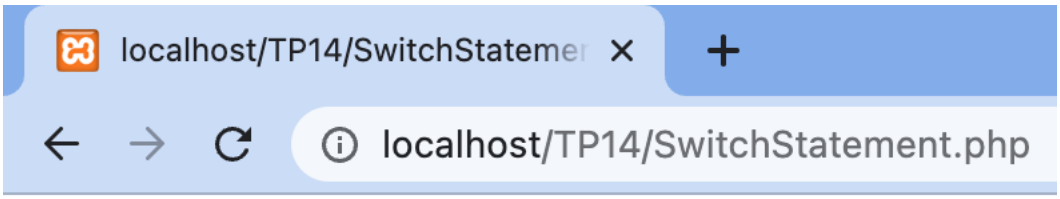
Switch Statement

README.md 5 | Constant.php | Logical.php | IfElse.php | Elseif.php | SwitchStatement.php

SwitchStatement.php

```php
<html>
    <?php
        $myFavColor = 'red';
        switch ($myFavColor)
        {
            case 'pink' :
                echo "My Favorite car color is pink";
                break;
            case 'red' :
                echo "My Favorite car color is red";
                break;
            case 'orange' :
                echo "My Favorite car color is orange";
                break;
            default :
                echo "My Favorite car color is not pink, red, or orange!";
        }
    ?>
</html>
```

Result of Switch Statement



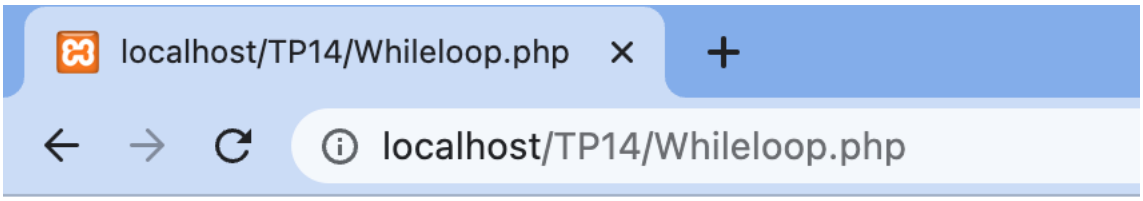
My Favorite car color is red

While loop

WhileLoop.php

```php
<html>
    <?php
        $i = 1;

        while ($i <= 5 ){
            echo "Hellow while $i times" . "<br>";
            $i++;
        }
    ?>
</html>
```

Result of While loop



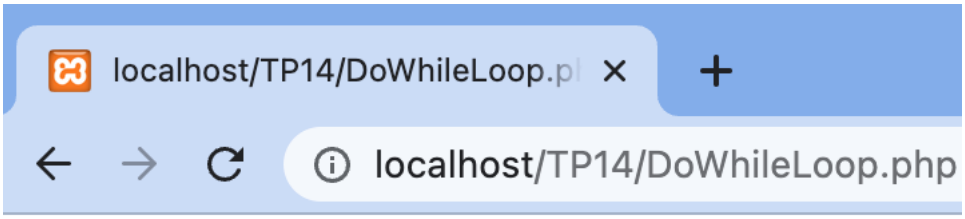
Hellow while 1 times
Hellow while 2 times
Hellow while 3 times
Hellow while 4 times
Hellow while 5 times

Do-While loop

DoWhileLoop.php

```php
<html>
    <?php
        $i = 0;
        do
            {
                $i++;
                echo "Hellow while $i times" . "<br>";

            }while ($i <= 5 );
    ?>
</html>
```

Result of Do-While loop



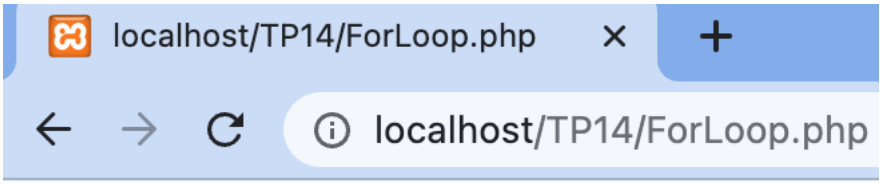
Hellow while 1 times
Hellow while 2 times
Hellow while 3 times
Hellow while 4 times
Hellow while 5 times
Hellow while 6 times

For Loop

ForLoop.php

```php
<html>
    <?php
        for($i = 1; $i <= 5; $i++) {
            echo "PHP for loop $i times" . "<br>";
        }
    ?>
</html>
```

Result of For Loop



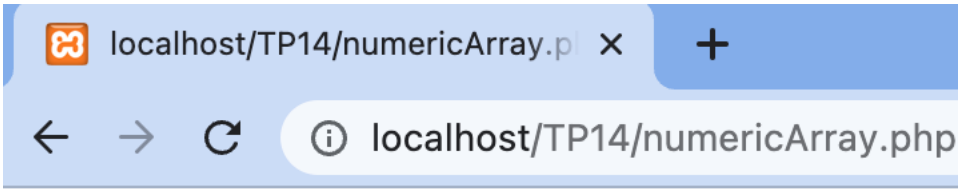
PHP for loop 1 times
PHP for loop 2 times
PHP for loop 3 times
PHP for loop 4 times
PHP for loop 5 times

Numeric Array

numericArray.php

```php
<html>
    <?php
        $age = array("Peter" => "35", "Ben" => "37", "Joe" => "43");

        foreach($age as $x => $val) {
            echo "$x = $val <br>";
        }
    ?>
</html>
```

Result of Numeric Array



Peter = 35
Ben = 37
Joe = 43

Multi-dimensional Array

multiDimensional.php

```php
<html>
    <?php
        $multiDArray = array(
            "A" => array (0 => "red", 2 => "blue", 3 => "green"),
            "B" => array (1 => "orange", 2 => "black"),
            "C" => array (0 => "white", 4 => "purple", 8 => "grey")
        );

        echo $multiDArray["A"][3];
        echo "<br>";
        echo $multiDArray["C"][8];
    ?>
</html>
```

Result of Multi-Dimensional Array

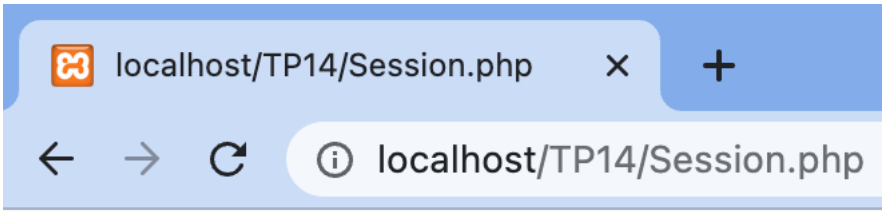
green
grey

Session

Session.php

```php
<html>
    <?php
        session_start();

        //storing session data
        $_SESSION["username"] = "dapravith";
        $_SESSION["email"] = "dapravith@gmail.com";

        //retrieve session data
        echo $_SESSION["username"];
        echo "<br><br>";
        echo $_SESSION["email"];
    ?>
</html>
```

Result of Session



dapravith

dapravith@gmail.com

PHP Form

indexGet.php

```
form > indexGet.php
1  <html>
2      <body>
3          <form action="registrationGet.php" method="get">
4              Name: <input type="text" name="name">
5              Email: <input type="text" name="email">
6              <input type="submit">
7          </form>
8      </body>
9  </html>
```

Result of indexGet.php

indexPost.php

form > indexPost.php

```php
<html>
    <body>
        <form action="registrationPost.php" method="post">
            Name: <input type="text" name="name">
            Email: <input type="text" name="email">
            <input type="submit">
        </form>
    </body>
</html>
```

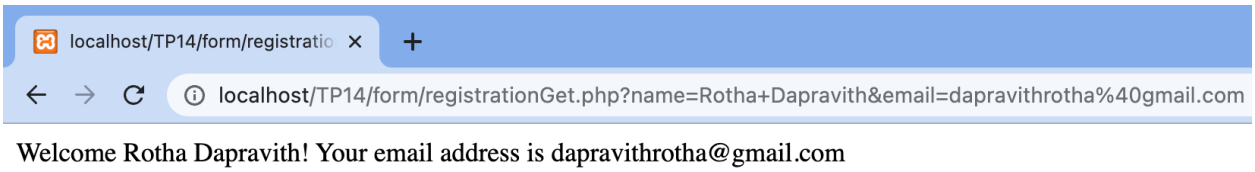
Result of indexPost.php

registrationGet.php

form > registrationGet.php

```php
<html>
    <body>
        Welcome <?php echo $_GET["name"]; ?>!
        Your email address is <?php echo $_GET["email"]; ?>
    </body>
</html>
```

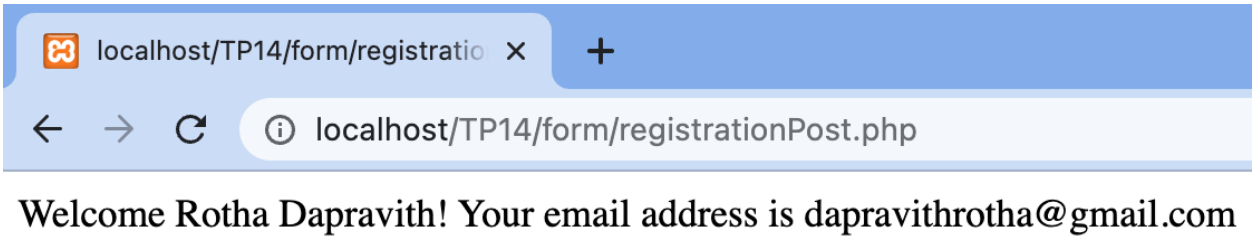
Result of registrationGet.php



registrationPost.php

```
form > registrationPost.php
1   <html>
2       <body>
3           Welcome <?php echo $_POST["name"]; ?>!
4           Your email address is <?php echo $_POST["email"]; ?>
5       </body>
6   </html>
```

Result of registrationPost



registrationCheck.php

form > registrationCheck.php

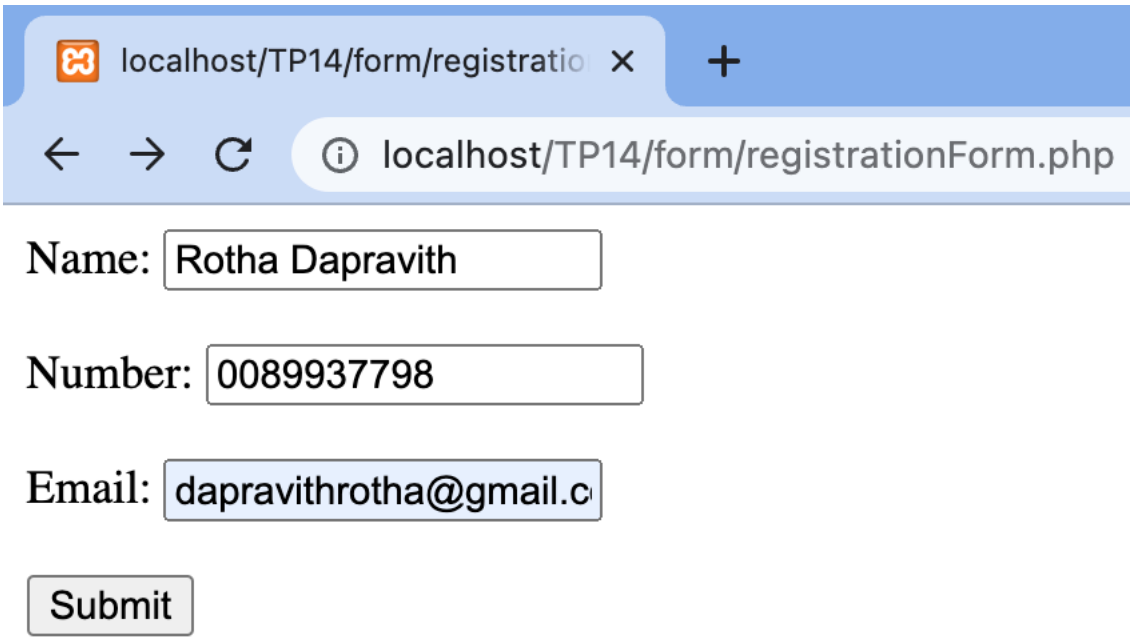
```php
<?php
    if (isset ($_POST['Submit'])) {
        $emp_name = trim($_POST["emp_name"]);
        $emp_number = trim($_POST["emp_number"]) ;
        $emp_email = trim($_POST["emp_email"]);

        if ($emp_name == "") {
            $errorMsg = "error : you did not enter a name.";
            $code = "1"; echo $errorMsg;

        }elseif ($emp_number == ""){
            $errorMsg = "error : Please enter number.";
            $code = "2"; echo $errorMsg;
        }
        //check if the number field is numeric
        elseif (is_numeric(trim($emp_number)) == false) {
            $errorMsg = "error : Please enter numeric number.";
            $code = "2"; echo $errorMsg;
        }elseif (strlen($emp_number) < 10) {
            $errorMsg = "error : Number should be ten digits.";
            $code = "2"; echo $errorMsg;
        }
        //check if email field is empty
        elseif ($emp_email == "") {
            $errorMsg = "error : Please enter enter a email.";
            $code = "3"; echo $errorMsg;
        }
        //check for valid email
        elseif  (!preg_match("/^[_\.0-9a-zA-Z-]+@([0-9a-zA-Z][0-9a-zA-Z-]+\.)+[a-zA-z]{2,6}$/i",$emp_email)) {
            $errorMsg = "error : You  did not enter a valid email.";
            $code = "3"; echo $errorMsg;
        }else{
            echo "Success";
            //final code will execute here.
        }
    }
?>
```

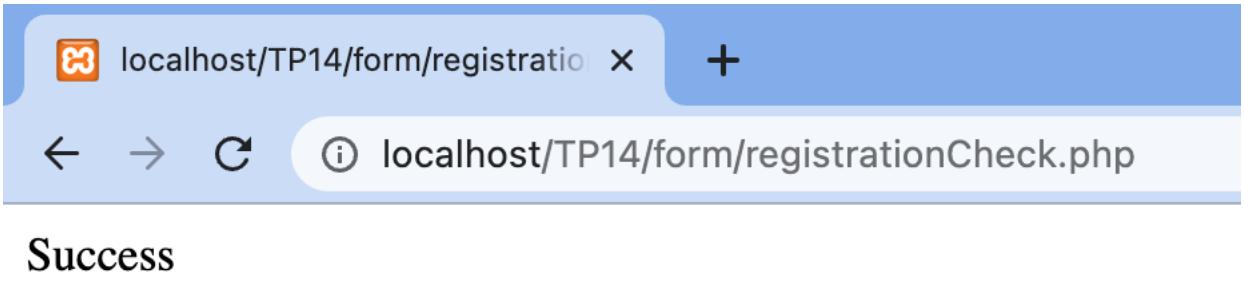
registrationForm.php

form > registrationForm.php

```php
<html>
    <body>
        <form action="registrationCheck.php" method="post">
            <label for="emp_name">Name:</label>
            <input type="text" id="emp_name" name="emp_name"><br><br>
            <label for="emp_number">Number:</label>
            <input type="text" id="emp_number" name="emp_number"><br><br>
            <label for="emp_email">Email:</label>
            <input type="text" id="emp_email" name="emp_email"><br><br>
            <input type="submit" value="Submit" name="Submit">
        </form>
    </body>
</html>

```

Result of registrationCheck.php





PHP File Upload

fileUpload.php

fileUpload > fileUpload.php

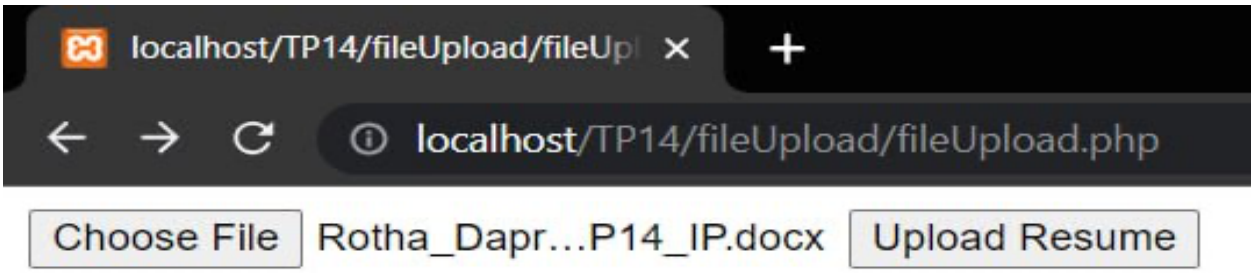
```php
<html>
    <body>
        <form action="fileUploadHandle.php" method="post" enctype="multipart/form-data" name="form1">
            <input type="file" name="resume" id="resume">
            <input type="submit" name="SubmitBtn" id="SubmitBtn" value="Upload Resume">
        </form>
    </body>
</html>
```

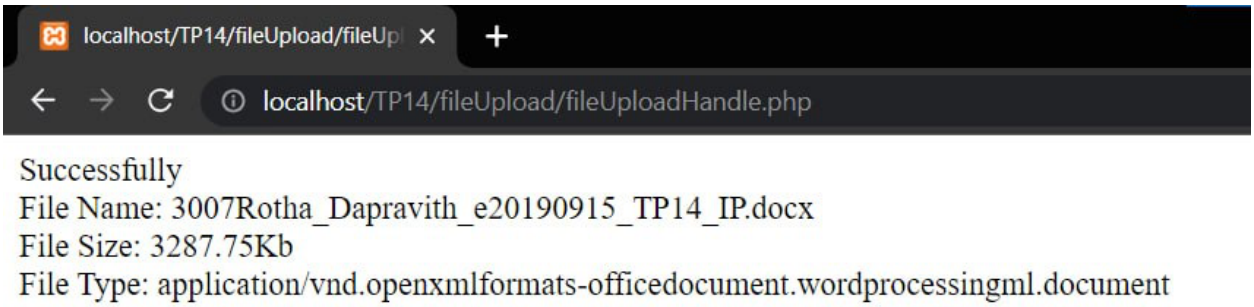
fileUploadHandle.php

fileUpload > fileUploadHandle.php

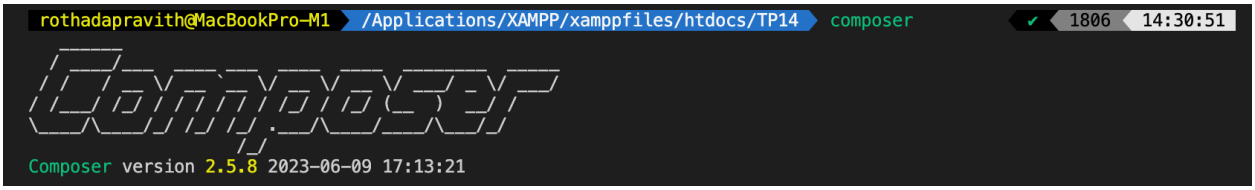
```php
<?php
if(isset($_POST["SubmitBtn"])){

    $fileName = basename($_FILES["resume"]["name"]);
    $fileSize = $_FILES["resume"]["size"] / 1024;
    $fileType = $_FILES["resume"]["type"];
    $fileTmpName = $_FILES["resume"]["tmp_name"];
    if($fileType=="application/msword" || $fileType=="application/vnd.openxmlformats-officedocument.wordprocessingml.document" ){
        if($fileSize<=3500){
            $random = rand(1111,9999);
            $newFileName = $random.$fileName;
            $uploadPath = "testUpload/".$newFileName;

            if(move_uploaded_file($fileTmpName,$uploadPath)){
                echo "Successfully"."<br>";
                echo "File Name: ". $newFileName."<br>";
                echo "File Size: ". $fileSize. "Kb"."<br>";
                echo "File Type: ". $fileType."<br>";
            }else{
                echo "fail";
            }
        }else{
            echo "Maximum upload file size is limit is 350Kb";
        }
    }else{
        echo "You can upload only word File";
    }
}
?>
```

Result of File Upload

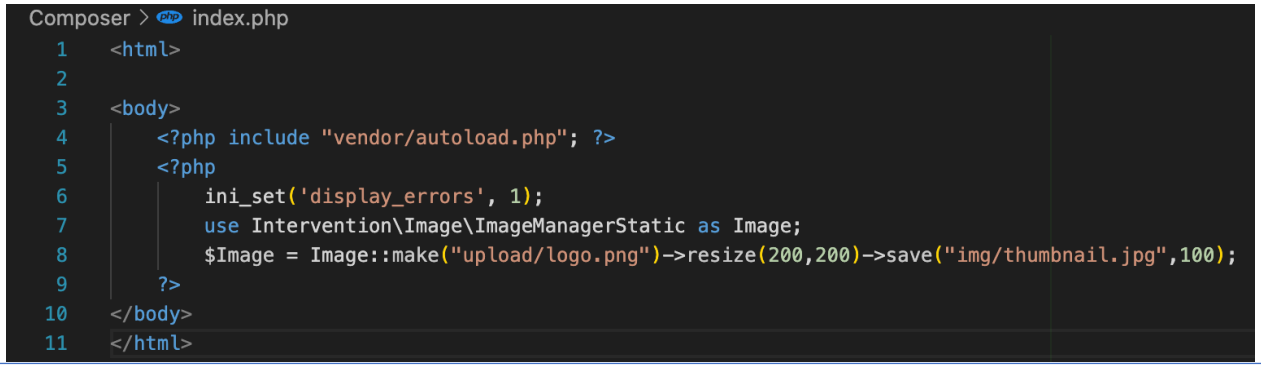




PHP Composer



PHP Intervention Image



Describe directory structure of Laravel project.

The directory structure of a typical Laravel project is as follows:

1. app: This directory contains the core application code. It includes subdirectories such as:

    - Console: Contains artisan commands.
    - Exceptions: Holds custom exception classes.
    - Http: Contains controllers, middleware, and form requests.
    - Models: Contains the application's data models.
    - Providers: Contains service providers that bootstrap various application services.

2. bootstrap: This directory contains the application's bootstrap files and cache.

    - app.php: Bootstraps the Laravel framework.
    - cache: Holds the framework's cached files for optimized performance.

3. config: Contains configuration files for various parts of the Laravel application.

    - app.php: General application configuration.
    - database.php: Database connection settings.
    - mail.php: Email configuration.
    - services.php: Configuration for third-party services.

4. database: Contains database-related files and migrations.

    - migrations: Holds database migration files.
    - seeds: Contains seed classes for database seeding.

5. public: This directory contains the publicly accessible files for the application.

    - index.php: The entry point for the application.
    - css, js, images: Subdirectories for CSS, JavaScript, and image assets.

6. resources: Holds the application's non-PHP resources, such as views and frontend assets.

    - views: Contains Blade templates for generating HTML.
    - js, css: Directories for JavaScript and CSS assets.
    - lang: Contains language files for localization.

7. routes: Contains route definitions for the application.

- web.php: Defines web routes for HTTP requests.
- api.php: Defines routes for API endpoints.

8. storage: Contains files generated by the application, such as logs, cache, and uploaded files.

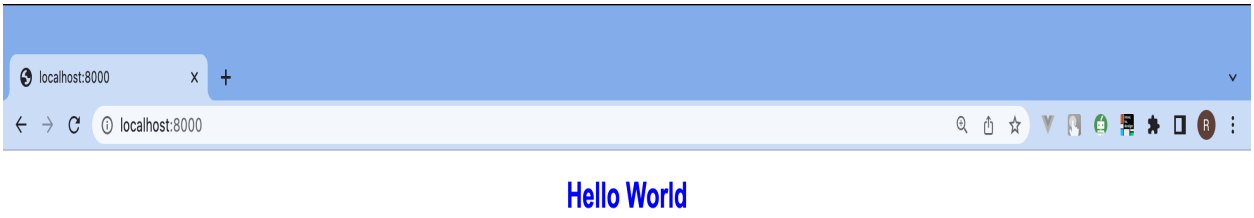
- app: Holds files specific to the application.
- framework: Contains framework-generated files.
- logs: Log files generated by the application.

9. tests: Holds the application's automated tests.

10. vendor: Contains the installed Composer packages.

11. file.env: This file contains environment-specific settings such as the database connection details, cache settings, and application-specific configurations.

12.artisan: This is the command-line interface for Laravel. It provides various commands for tasks like running migrations, generating code, and more.

Setup first Laravel project to say: “Hello World.”

Result after setup first Laravel Project: