

Web Frameworks
Midterm Examination
Set B

Instructions:

- Follow the instructions below and put the code snippets that will perform the requirements in each number in the space provided.
- Your answer should be written in **red font color**.
- You are given exactly 2.5 hours to answer the examination.
- You can open your notes and the codes that we are working with during our discussion.
- Your answer should be submitted as a .pdf file in the submission folder that will be provided in your Blackboard Account.
- Late submission will be accepted but a deduction of 2 points per minute in excess of the two hours allotted time. Submitting 30 mins late will be equivalent to a failing score.
- Keep the folder that you used in the exam because I will check them to validate your answer. Additional points will be given to those who can load the web pages of the midterm exam.

1. Download a Laravel Project using composer and name your project BmidExamSetYourSurname. Paste the command that you used in the space provided below:

composer create-project laravel/laravel BmidExamSetSalipot

2. Create a controller named PagesController using the Terminal or Command Prompt. Paste the command that you used in the space provided below:

php artisan make:controller PagesController

3. Go to views.php and create the following routes that will access functions in the PagesController:

a. /home

```
Route::get('/home','App\Http\Controllers\PagesController@Home');
```

b. /view

```
Route::get('/view','App\Http\Controllers\PagesController@View');
```

c. /create

```
Route::get('/create','App\Http\Controllers\PagesController@Create');
```

In the import section of the views.php insert the following codes:

```
use App\Http\Controllers\PagesController;
```

Paste the routes in the space provided above after each of the letters.

4. Create a folder named **layouts** under the views folder. Create an **app.blade.php** file in the layouts folder. Design a homepage that will display the following:
- a. Insert the HTML skeleton in app.blade.php. Implement a Blade Templating structure in the **app.blade.php**.
- b. Paste the current code in the **app.blade.php** after performing **steps 4** below.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
1BmE4kWBq78iYhFIdvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"
crossorigin="anonymous">
  <link rel="stylesheet" href="styles.css">
  <title>Set B Exam (SALIPOT)</title>
</head>
<body>
  @yield('content')
</body>
</html>
```

5. Create a folder named **pages** in the views folder. In the views folder create a file named home.blade.php.

- a. Include app.blade.php in the home.blade.php
- b. Display the title of the page (**Employee Information**) in body section using <h1> tag.
- c. The title should be passed from the **home** function in the PagesController.
- d. Paste the code form the home.blade.php after performing **steps 5.a, 5.b, 5.c** below.

```
@extends('layouts.app')
```

```
@section('content')
<h1>{{ $title }}</h1>
@endsection
```

6. In the PagesController, create a **home** function.
 - a. In the **home** function passed a variable named **\$title** to the home.blade.php.
 - b. The \$title should be set to **Employee Information**.
 - c. Load **home.blade.php** from this function. Paste the codes.
 - d. Paste the codes of **home** function below:

```
public function Home(){
    $title = 'Employee Information';
    return view('pages.home',compact('title'));
}
```

7. Create a folder named **inc** in the views folder. In the inc folder create a **navbar.blade.php** file.

- a. Create a **navbar** with the links – **home, view, create**.
- b. Paste the codes of the **navbar.blade.php** below:

```
<nav class="navbar navbar-expand navbar-dark bg-dark" aria-label="Second navbar example">
<div class="collapse navbar-collapse" id="navbarsExample02">
<ul class="navbar-nav me-auto">
<li class="nav-item">
<a class="nav-link" aria-current="page" href="/home">Home</a>
</li>
<li class="nav-item">
<a class="nav-link" href="/view">View</a>
</li>
<li class="nav-item">
<a class="nav-link" href="/create">Create</a>
</li>
```

```
</ul>
</div>
</div>
</nav>
```

8. Implement the navbar in the **home.blade.php**. Paste the codes from home.blade.php below:

```
@extends('layouts.app')
```

```
@section('content')
    @include('inc.navbar')
    <h1>{{ $title }}</h1>
@endsection
```

9. Create EmployeesController with resource using the terminal/command prompt. Paste the codes below:

```
php artisan make:controller EmployeesController --resource
```

Create a database named **dbEmpInfo** in the **PHP MyAdmin**.

10. Create a model named **EmpInfo** using the terminal/command prompt with the **migration** option turned on. Paste the codes below:

```
php artisan make:model Empinfo --migration
```

11. In the database folder open create_empinfo_table.php. Modify the codes to include the following fields.
 - a. fname – string
 - b. lname – string
 - c. dept – string
 - d. salary – number

Paste the codes below:

```
public function up()
{
    Schema::create('empinfos', function (Blueprint $table) {
```

```

        $table->id();
        $table->string('fname');
        $table->string('lname');
        $table->string('dept');
        $table->float('salary');
        $table->timestamps();
    });
}

```

12. Goto .env file in the Laravel Project. Modify the MySQL connection set the database name into dbEmpInfo, username into root, and dbPassword into “ ”. Paste the codes below.

```

DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=dbEmpInfo
DB_USERNAME=root
DB_PASSWORD=

```

13. Run the migration using the terminal/command prompt. Paste the command that you used below.

```
php artisan migrate
```

14. Insert 2 sample records using tinker. Paste all the codes used when you insert the records using tinker below:

```

PS C:\BmidExamSetSalipot> php artisan tinker
>>> $employee = new App\Models\Empinfo
=> App\Models\Empinfo {#3529}
>>> $employee->fname = 'Daniel Andrei'
=> "Daniel Andrei"
>>> $employee->lname = 'Salipot'
=> "Salipot"
>>> $employee->dept = 'IT Department'
=> "IT Department"
>>> $employee->salary = '1234.56'
=> "1234.56"
>>> $employee->save()
=> true
>>> $employee = new App\Models\Empinfo
=> App\Models\Empinfo {#4316}
>>> $employee->fname = 'Juan'

```

```
=> "Juan"
>>> $employee->lname = 'Dela Cruz'
=> "Dela Cruz"
>>> $employee->dept = 'Marketing Department'
=> "Marketing Department"
>>> $employee->salary = '6543.21'
=> "6543.21"
>>> $employee->save()
=> true
```

15. Make the **view** link in the navBar working. The view link should display the 2 sample records that you have inserted into the database.

a. Paste the code of the view.blade.php below:

```
@extends('layouts.app')

@section('content')
    @include('inc.navbar')
    @foreach ($employees as $employee)
        <h1>Employee Name: {{ $employee->fname }} {{ $employee->lname }}</h1>
        <h2>Employee Department: {{ $employee->dept }}</h2>
        <h3>Employee Salary: {{ $employee->salary }}</h3>
    @endforeach
@endsection
```

b. Paste the codes from the **index function** of the EmployeesController below:

```
public function index()
{
    $employees = Empinfo::all();
    return view('pages.view')->with('employees',$employees);
}
```