

TITLE : PR COCU 7 LEVEL 4

NAME : NG WEI SHENG

IC No. : 031215 - 02 - 0669

Step 1 : Create a model and migrations for the voting system.

```
PS C:\laravel> php artisan make:model fruit -m
PS C:\laravel> php artisan make:model results
```

```
Schema::create(table: 'fruits', callback: function (Blueprint $table): void {
    $table->id();
    $table->string(column: 'f_name');
    $table->timestamps();
});
Schema::create(table: 'results', callback: function (Blueprint $table): void {
    $table->id();
    $table->integer(column: 'f_id');
    $table->integer(column: 'record');
    $table->integer(column: 'user_id');
    $table->timestamps();
});
```

Then , create a seeder to insert data

- Add 5 subject into the database such as  
(apple , orange , pineapple , watermelon , mango)

```
PS C:\laravel> php artisan make:seeder
What should the seeder be named?
> fruitSeeder
```

id	f_name
----	--------

1	Apple
---	-------

2	Orange
---	--------

3	Pineapple
---	-----------

4	Watermelon
---	------------

5	Mango
---	-------

```
class fruit extends Seeder
{
    /**
     * Run the database seeds.
     */
    0 references | 0 overrides
    public function run(): void
    {
        ModelsFruit::create(attributes: [
            'f_name' => 'Apple',
        ]);
        ModelsFruit::create(attributes: [
            'f_name' => 'Orange',
        ]);
        ModelsFruit::create(attributes: [
            'f_name' => 'Pineapple',
        ]);
        ModelsFruit::create(attributes: [
            'f_name' => 'Watermelon',
        ]);
        ModelsFruit::create(attributes: [
            'f_name' => 'Mango',
        ]);
    }
}
```

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## Step 2 : Create a voting interface using HTML, PHP, and MySQL.

```
<body>
<div class="container">
  <span>{{Auth::user()->name}}</span> <a href="{{route('logout')}}">Logout</a>
  <h1>Choose Your Option(total 5 mark)</h1>
  <form action="{{route('update')}}" method="post">
    @csrf
    @foreach ($listings as $listing)
      <div class="option">
        <label for="{{ $listing->id }}">{{ $listing->f_name }}</label>
        <input type="number" id="{{ $listing->id }}" name="{{ $listing->f_name }}" max="5" required>
      </div>
    @endforeach
    <button type="submit">Submit</button>
  </form>
</div>
```

Then, create a pie chart using a script.

```
<script type="text/javascript" src="https://www.gstatic.com/charts/loader.js"></script>
<script type="text/javascript">
  google.charts.load('current', {'packages':['corechart']});
  google.charts.setOnLoadCallback(drawChart);

  function drawChart() {
    var data = google.visualization.arrayToDataTable([
      ['Fruit', 'Votes'],
      @foreach($records as $record)
        [ '{{ $record->f_name }}', {{ $record->total_votes }} ],
      @endforeach
    ]);

    var options = {
      title: 'Voting Results',
      is3D: false,
    };

    var chart = new google.visualization.PieChart(document.getElementById('piechart'));
    chart.draw(data, options);
  }
</script>
```

Result :

Choose Your Option(total 5 mark)

Apple

Orange

Pineapple

Watermelon

Mango

Submit

Voting Results

No data

Winner is null

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Step 3: Create a login and registration system.

- Ensure each user's vote result is recorded.
- Create a controller to handle the login & registration function.

```
PS C:\laravel> php artisan make:controller userController
```

(This is login function)

```
function login(Request $request): mixed|RedirectResponse{
    $form = $request->validate(rules: [
        'name' => 'required',
        'password' => 'required'
    ]);

    if(Auth::attempt(credentials: $form)){
        return redirect(to: '/')->with(key: 'success',value: '');
    }else{
        return redirect()
            ->route(route: 'login')
            ->with(key: 'error',value: 'Email&Password is wrong');
    }
}
```

(This is register function)

```
class userController extends Controller
{
    0 references | 0 overrides
    function register(Request $request): mixed|RedirectResponse{
        $form = $request->validate(rules: [
            'name' => 'required',
            'password' => 'required|confirmed'
        ]);

        User::create(attributes: $form);
        return redirect()
            ->route(route: 'login');
    }
}
```

Result : This is after register and login

**weisheng Logout**

Step 4: Create a voting system function.

- Check if a fruit record exists for the current user.

```
public function update(Request $request): mixed|RedirectResponse
{
    $fruit = fruit::all();
    foreach ($fruit as $f) {
        $record = $request->input(key: $f->f_name) ?? 0;
        $currentFruit = result::where(column: 'f_id', operator: $f->id)
            ->where(column: 'user_id', operator: FacadesAuth::id())
            ->first();

        if ($currentFruit) {
            $currentFruit->record = $record;
            $currentFruit->save();
        } else {
            result::create(attributes: [
                'record' => $record,
                'f_id' => $f->id,
                'user_id' => FacadesAuth::id()
            ]);
        }
    }
}
```

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## Step 5: Testing a voting system function

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### Choose Your Option(total 5 mark)

Apple

Orange

Pineapple

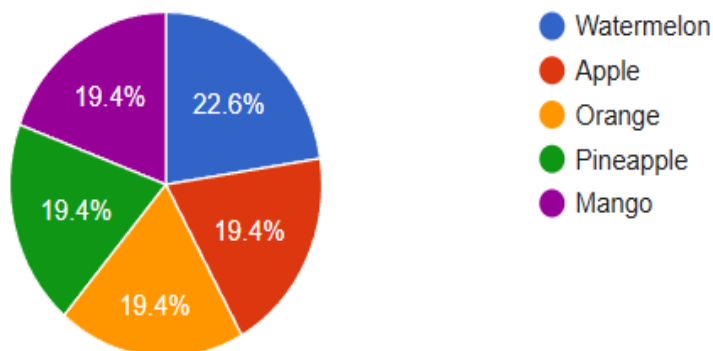
Watermelon

Mango

Submit

Result :

Voting Results



**Winner is Watermelon**