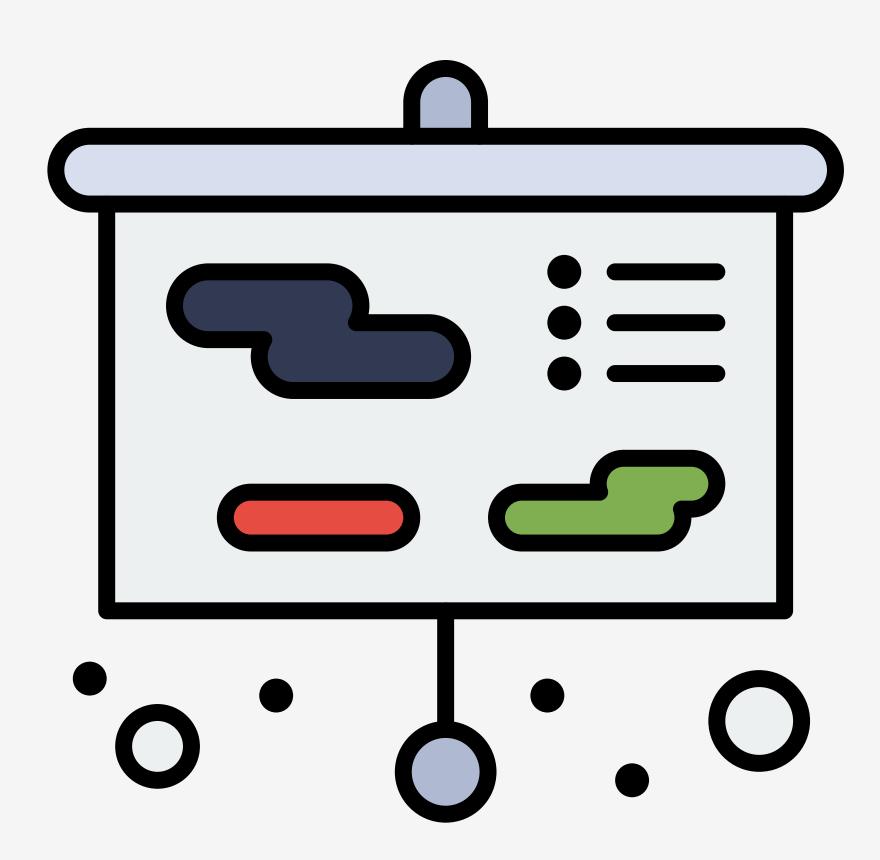
# SERVER-SIDE WEB DEVELOPMENT

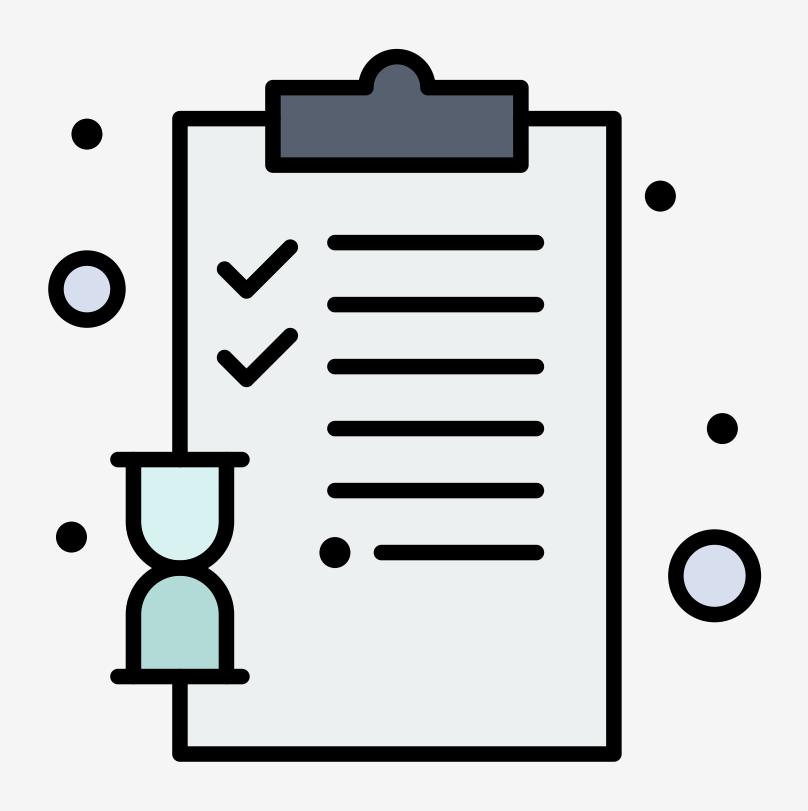
Lecture 7

### TODAY'S TOPICS



- Introduction to Laravel
- Laravel Routes
- Laravel Views

### ANNOUNCEMENTS

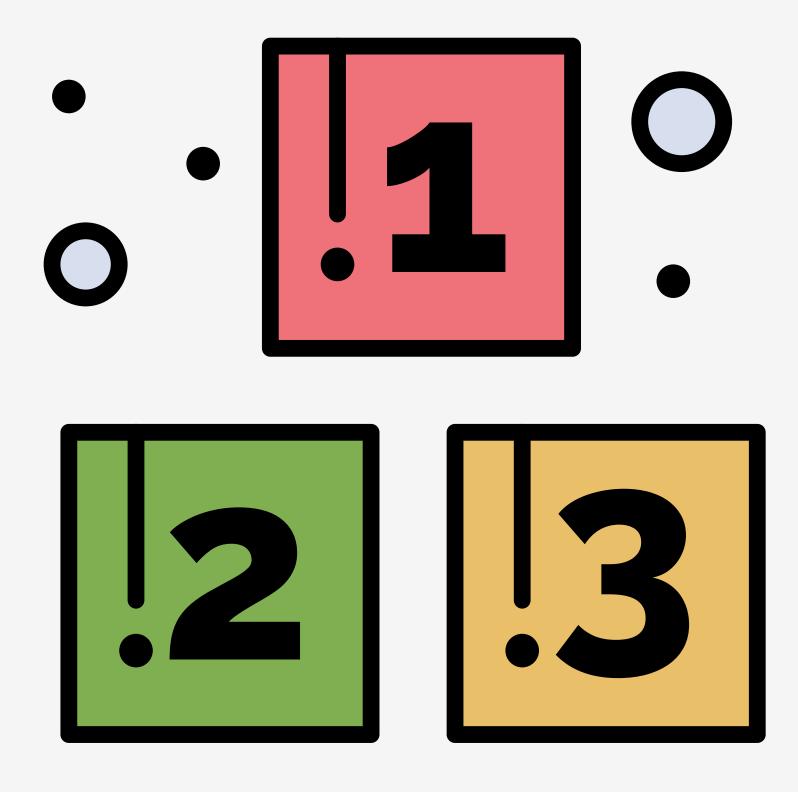


Sign-in Sheet

### QUESTIONS

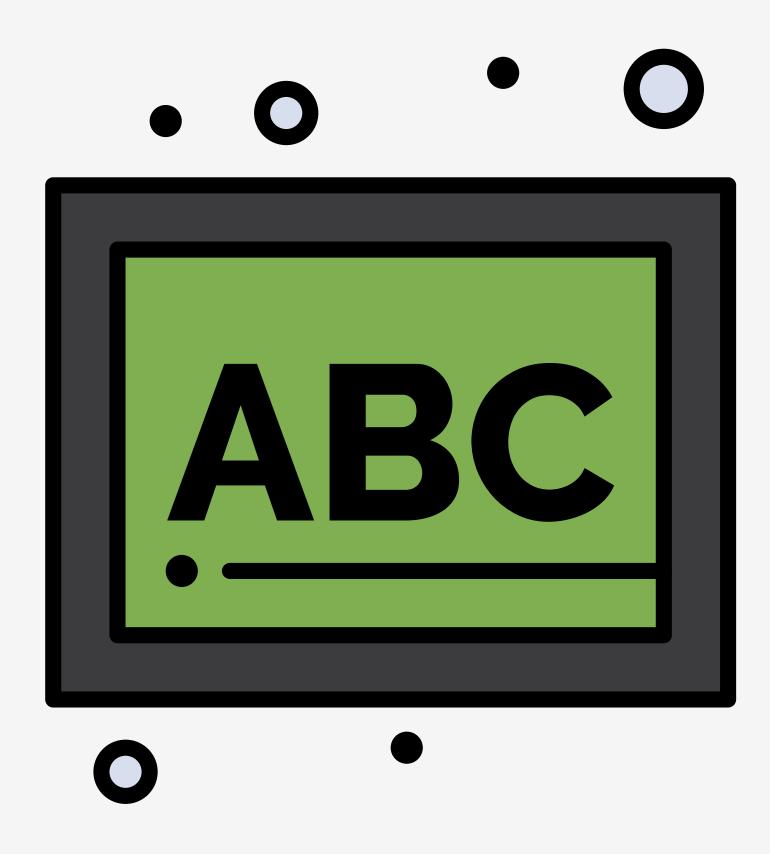
### LARAVEL

### LARAVEL

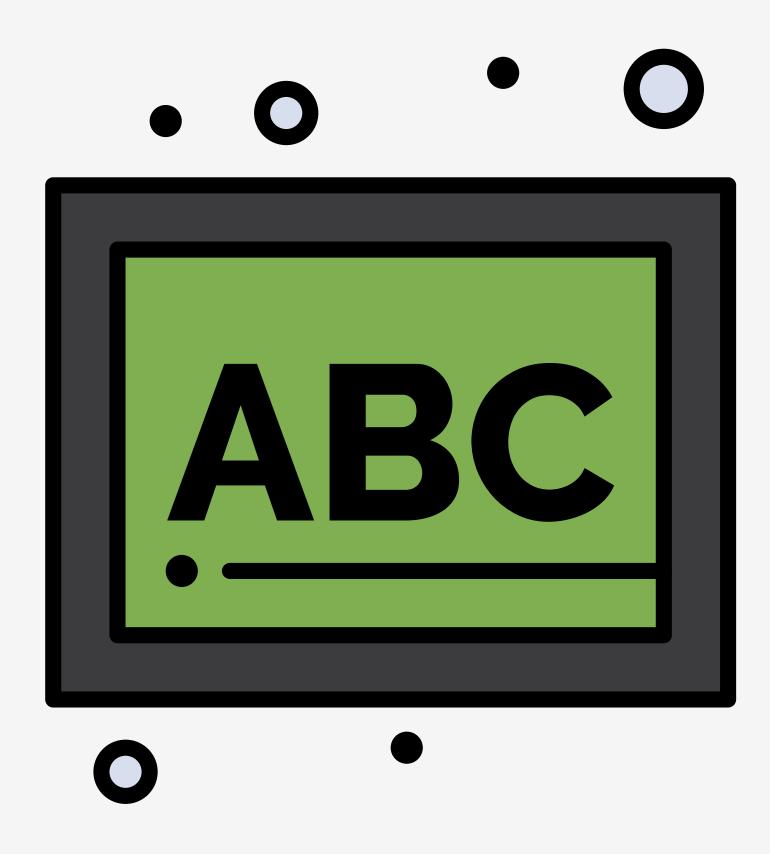


- Free, open-source PHP framework
- Build using OO PHP
- Follows the Model-View-Controller (MVC) architectural pattern
- Supports routing, models, view, controllers, and authentication
- Includes Blade templating engine and Artisan CLI
- Working with Laravel 6.x

### INSTALLING LARAVEL



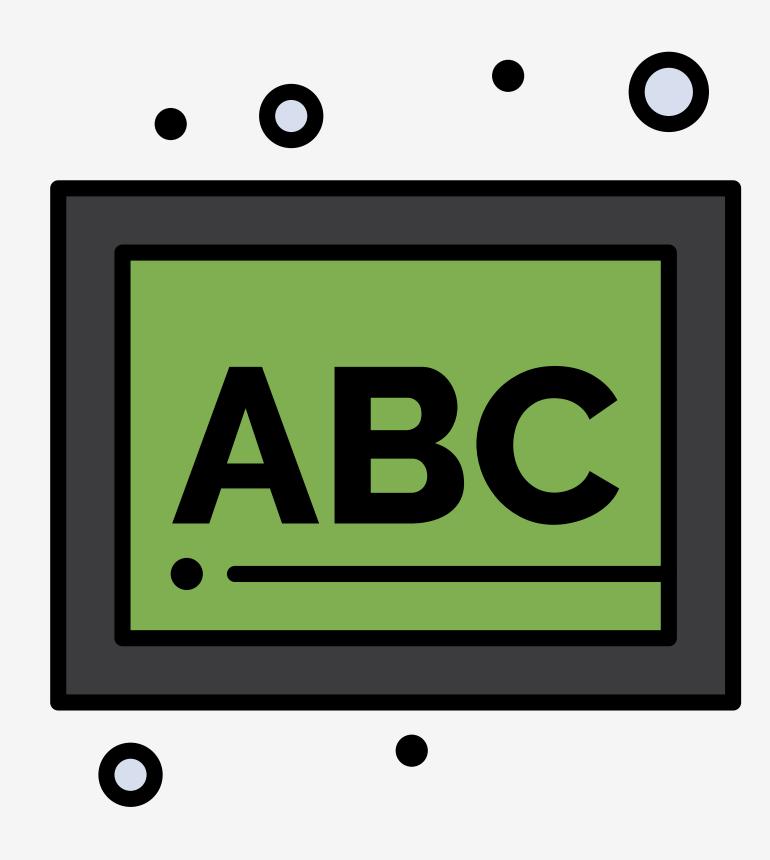
- Routing is one of the fundamental features of Laravel
- Routes create friendly URL scheme that response to HTTP verbs
- Routes are defined in the routes/web.php file
- All routes start with a call to the Route class and a static method
- Each method take a URI and a function



- The URI is the path is enter into the Browser
- The value returned by the function will be displayed in the browser
- The view function can be used to return view files
- View files are typically Blade templates and are found in resources/views

#### ROUTES

```
// routes/web.php
Route::get('/', function () {
  return 'Hello World';
});
Route::get('/welcome', function () {
  return view('welcome');
});
```



- Data can be passed to a view as an associative array
- The associative array is the second argument of the view function
- The data is accessible in the view as variables with the same name as the key.

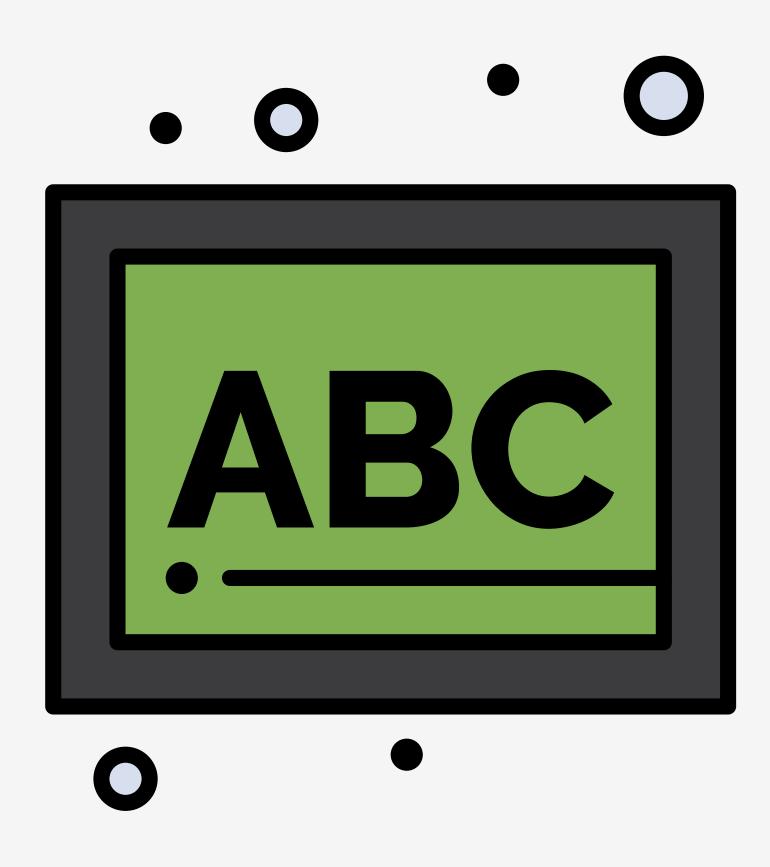
#### ROUTES

```
// routes/web.php
  Route::get('/welcome', function() {
    return view('welcome', ['name' => 'John']);
  });
<!-- resources/views/welcome.blade.php -->
<html>
  <body>
    <h1>
      Hello, <?php echo $name; ?>
    </h1>
  </body>
</html>
```

#### ROUTES

```
// routes/web.php
  Route::get('/welcome', function() {
    return view('welcome', ['name' => 'John']);
  });
<!-- resources/views/welcome.blade.php -->
<html>
  <body>
    <h1>
      Hello, {{ $name }}
    </h1>
  </body>
</html>
```

### ROUTE PARAMETERS



- Route parameters allows a segment of the URI to be variable
- A route parameter is passed to the route callback function
- Route parameters can be required or optional

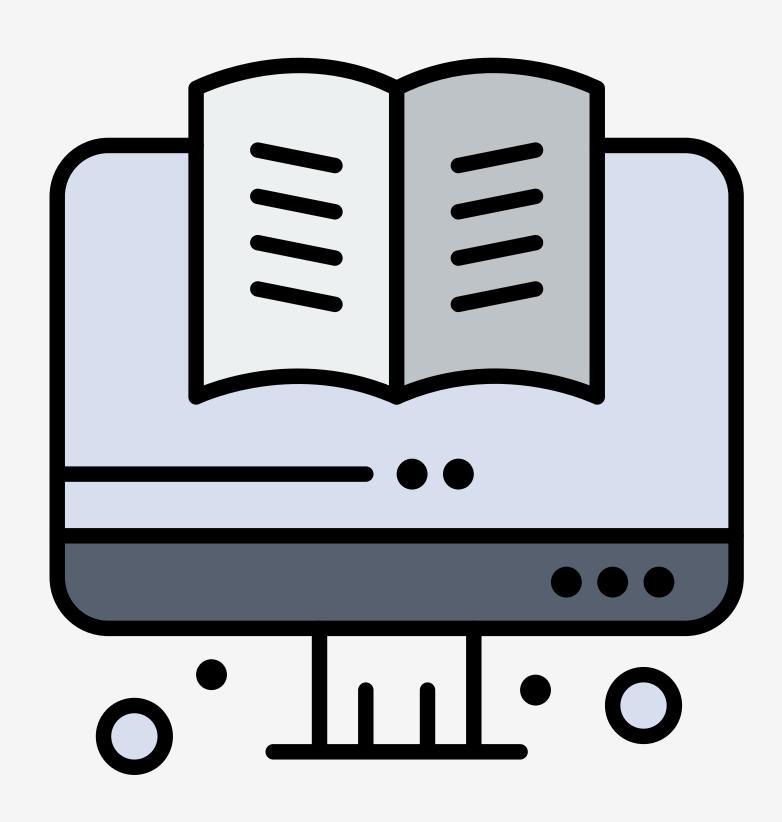
#### ROUTES

```
// routes/web.php
Route::get('/posts/{post}', function ($post) {
  posts = [
    'post-1' => 'This is my first post';
    'post-2' => 'This is my second post';
  ];
  return view('post', [
    'post' => $posts[$post]
  ]);
});
```

### HANDS-ON

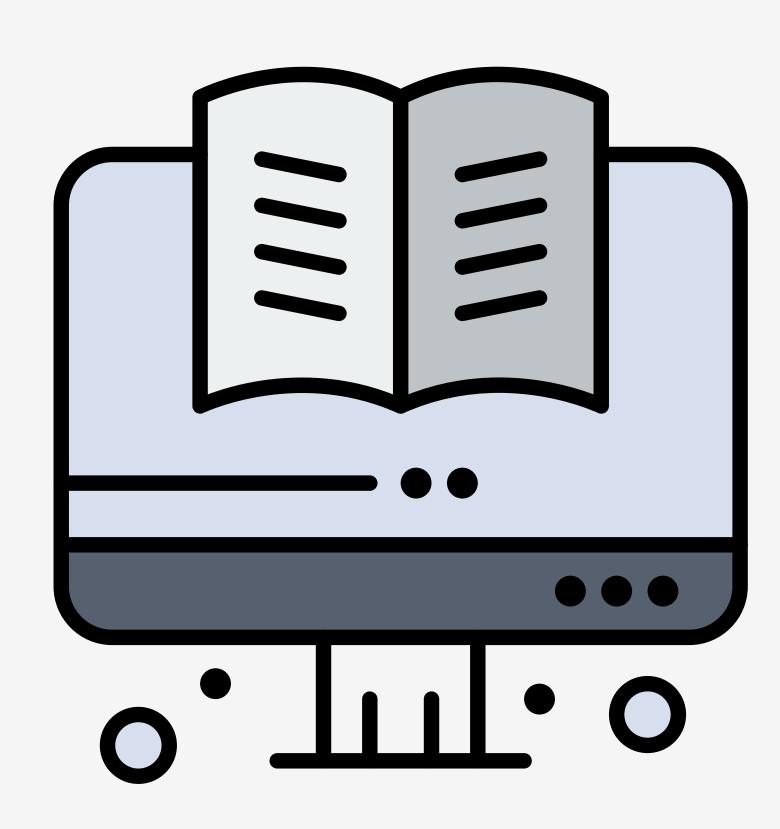
### LARAVEL VIEWS

### LARAVEL VIEWS



- Laravel follows the Model-View-Controller (MVC) architectural pattern
- MVC provides a separation of task between the data (Model), the interface (View), and the logic (Controller)
- Views are what gets displayed in the browser
- Views are stored in the resources/views directory
- Views can PHP or Blade files

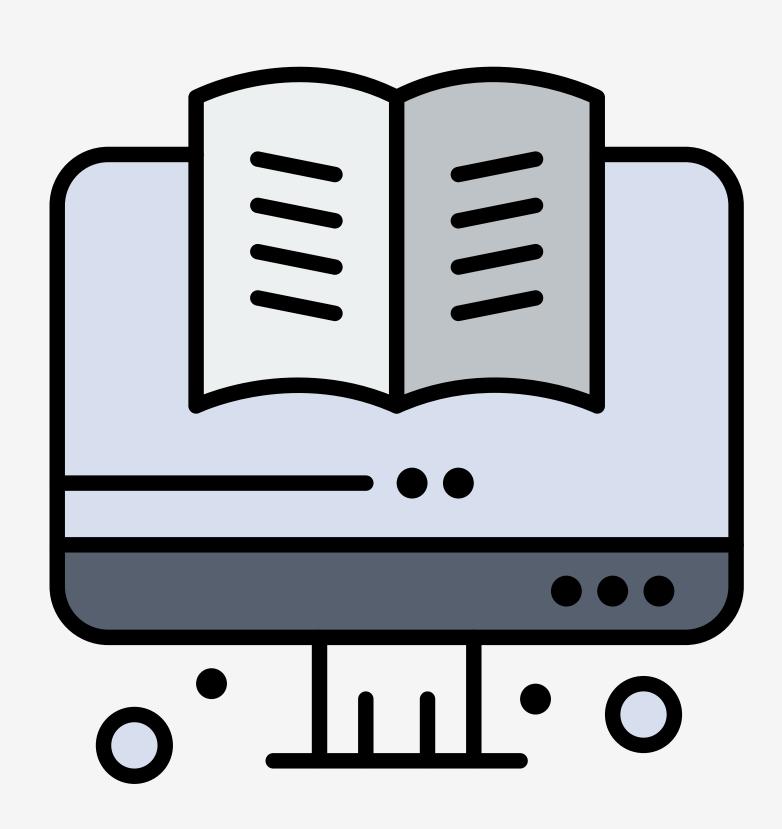
### LARAVEL BLADE



- Blade is a PHP templating engine included with Laravel
- Blade includes multiple statements and directives to simplify creating templates
- Blade can include PHP tags and functions
- Blade is compiled to plain PHP

### BLADE

### LARAVEL BLADE



- Blade provides control structures that mimimic their PHP counterparts
- The @if, @elseif, @else, and @endif directives can be used for conditional statements
- The @for / @endfor and @foreach / @endforeach directives can be use for loops

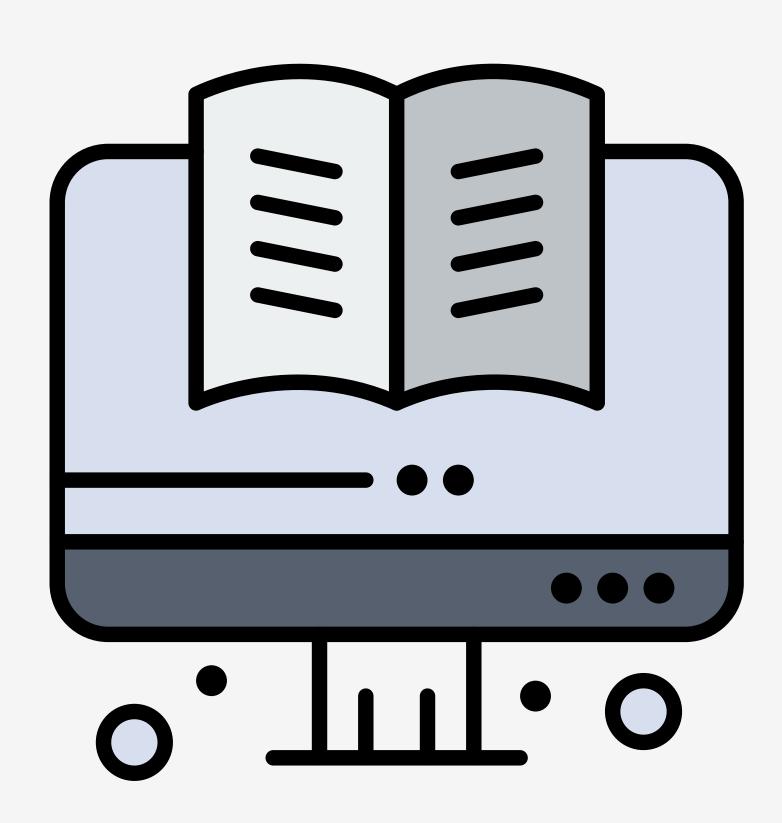
#### BLADE

```
<html>
  <body>
   @if (isset($name))
      <h1>Hello, {{ $name }}</h1>
    @else
      <h1>Hello, Guest</h1>
    @endif
  </body>
</html>
```

#### BLADE

```
<html>
 <body>
   @for ($i = 0; $i < 10; $i++)
     The current value is {{ $i }}
   @endfor
   <l
     @foreach ($list as $item)
       $item
     @endforeach
   </body>
</html>
```

### LARAVEL BLADE

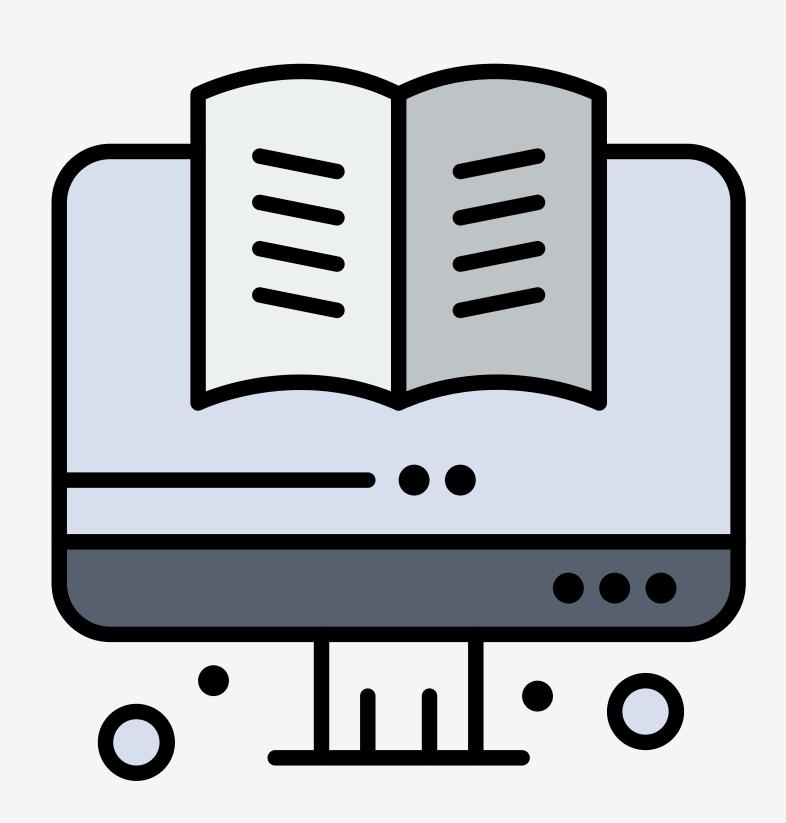


- Blade provides directives for creating "master" layout pages
- The @section directive defined a section of content
- The @yield directive display the contents of a given section
- The @show directive is used to end a defined section and display the section

### MASTER LAYOUT

```
<!-- resources/views/layouts/app.blade.php -->
<html>
    <head>
        <title>App Name - @yield('title')</title>
    </head>
    <body>
        @section('sidebar')
            This is the master sidebar.
        @show
        <div class="container">
            @yield('content')
        </div>
    </body>
</html>
```

### LARAVEL BLADE



- The @extend directive specifies which layout should be inherited
- The @section directive can be used to inject content
- The @endsection directive ends a section without displaying it
- The @parent directive includes the parent's content with the child's

## CHILD LAYOUT

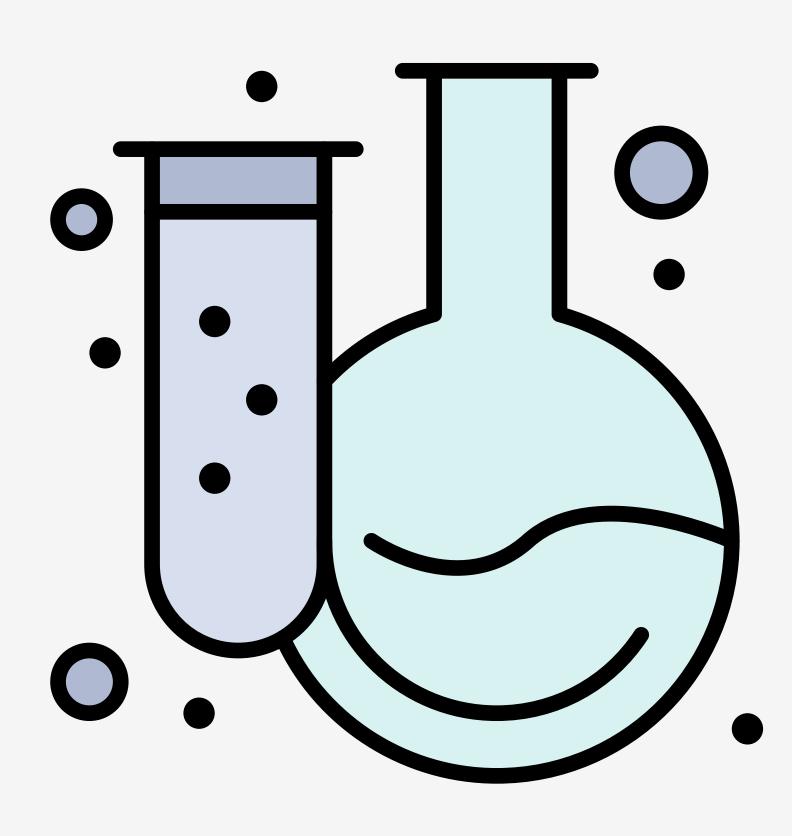
```
<!-- resources/views/child.blade.php -->
@extends('layouts.app')
@section('title', 'Page Title')
@section('sidebar')
   @parent
   This is appended to the master sidebar.
@endsection
@section('content')
    This is my body content.
@endsection
```

### MASTER LAYOUT

```
<!-- resources/views/layouts/app.blade.php -->
<html>
    <head>
        <title>App Name - @yield('title')</title>
    </head>
    <body>
        @section('sidebar')
            This is the master sidebar.
        @show
        <div class="container">
            @yield('content')
        </div>
    </body>
</html>
```

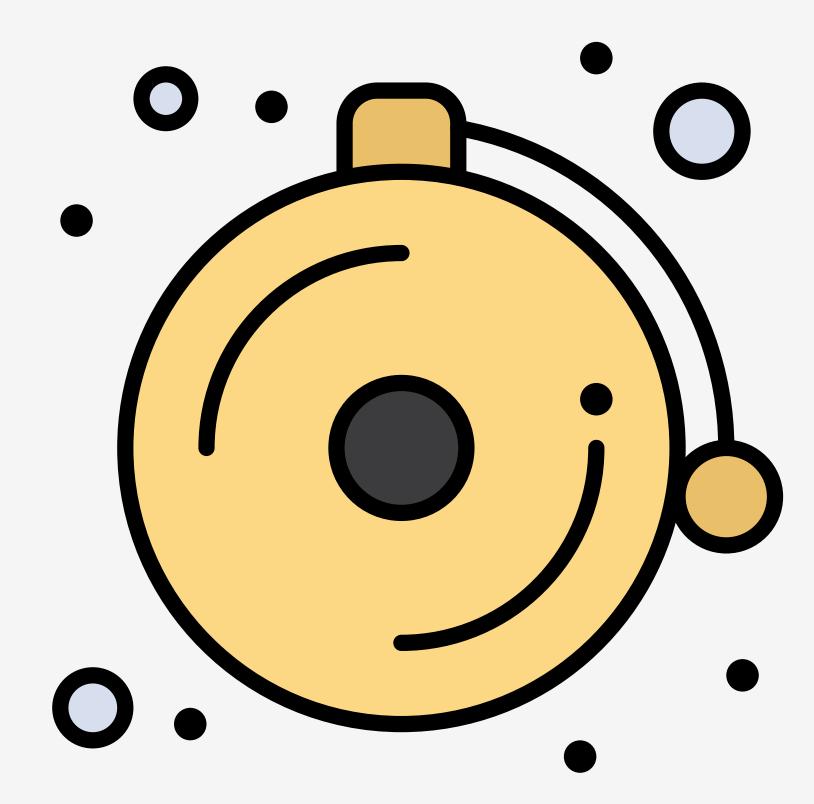
### HANDS-ON

### MIDTERM REFLECTION



- Reflect and write about
  - How you completed the project
  - What problem you faced
  - What you learned
- DUE: Mon. Mar. 9 @ 11:59 PM

### NEXT TIME...



Laravel Models & Controllers

• Due: Hybrid #3 - TONIGHT