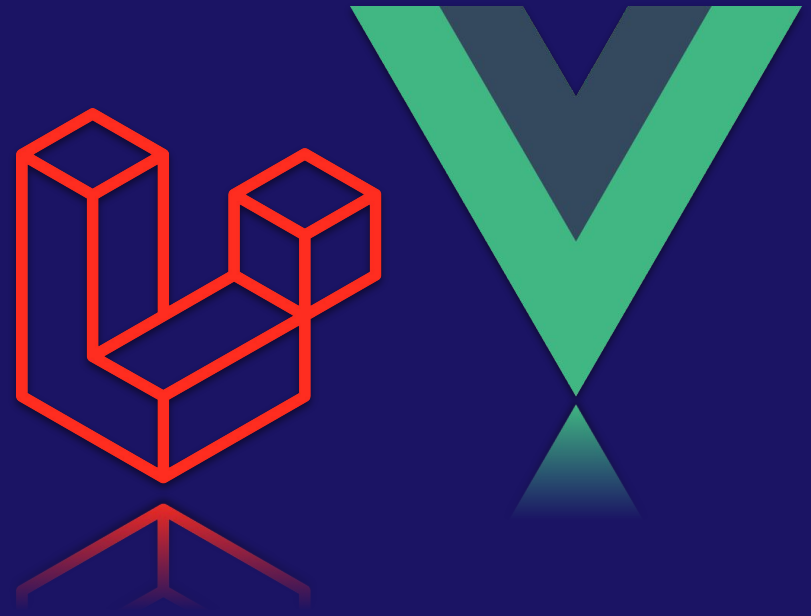
LARAVEL
VUE.js

"Unlock your talent and development skills using progressive PHP and Javascript Frameworks for web artisans."

KEY OBJECTIVES

- Build intuitive, elegant, and expressive web applications - freeing you to create without sweating the small things
- Integrate these frameworks into your cool and existing projects



TOPIC OUTLINE

01
Overview

02
Laravel

03
Vue.js

Demo/Workshop

01

OVERVIEW

THE INTERNET

Facebook Data Center
facebook.com

Website Components

HTML

The Language for building web pages

CSS

The Language for styling web pages

JavaScript

The Language for programming web pages

Others

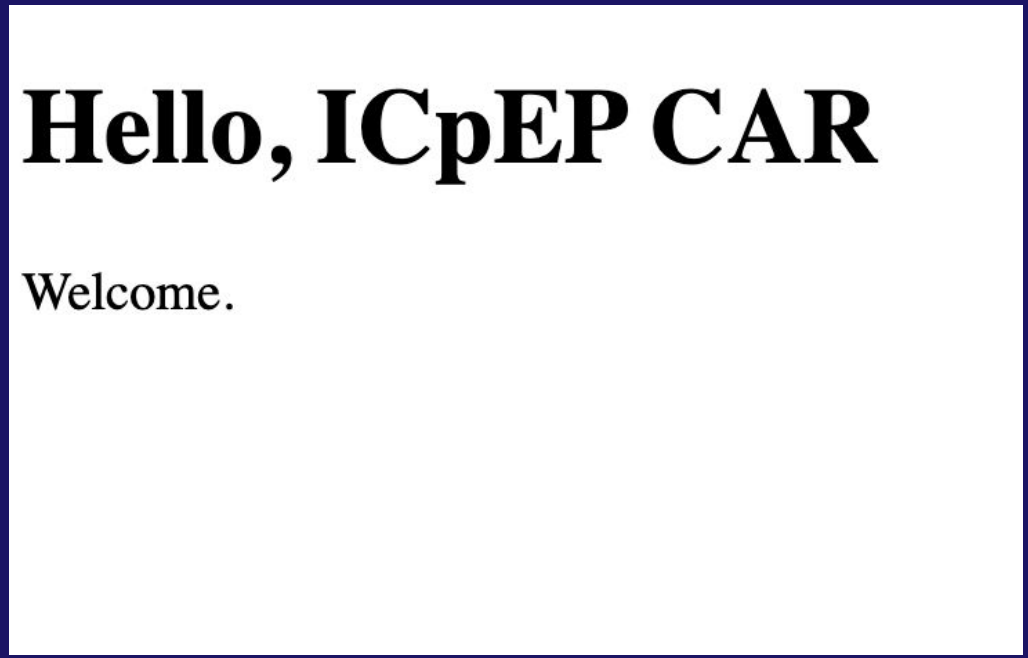
- SQL - A language for accessing databases
- Web Server Programming Languages
    - PHP
    - Python
    - Java
    - ASP.NET

FRONT-END

BACK-END

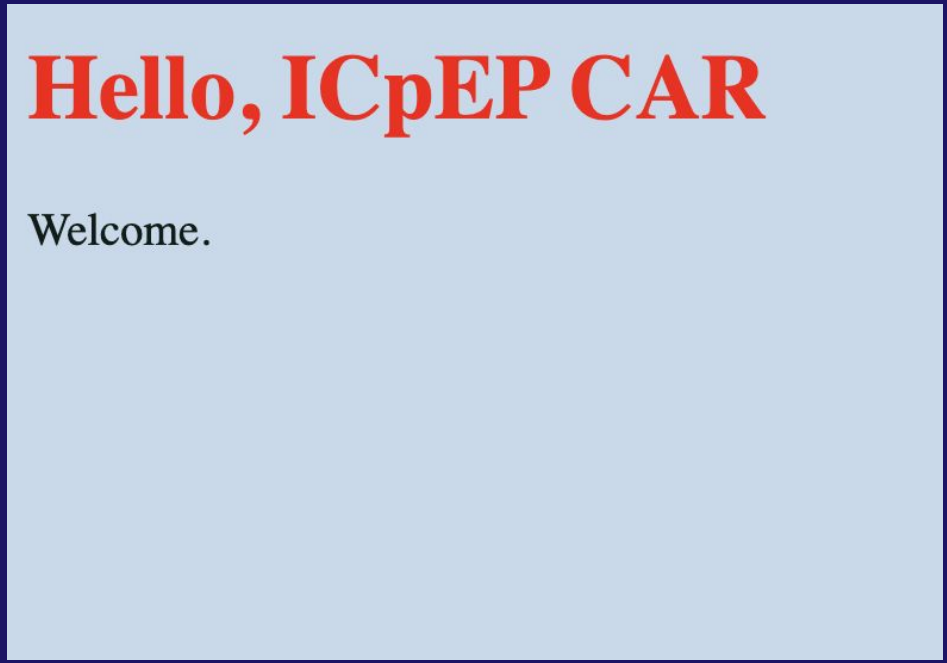
HTML

```html
<!DOCTYPE html>
<html>
<title>Simple HTML</title>
<body>

<h1>Hello, ICpEP CAR</h1>
<p>Welcome.</p>

</body>
</html>
```



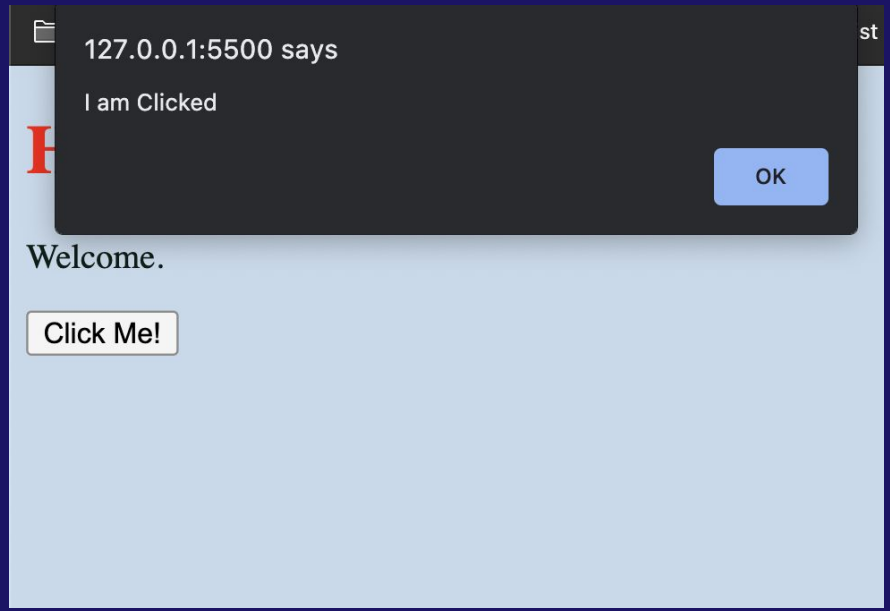
CSS

```css
body {
    background-color: rgb(197, 218, 235);
}

h1 {
    color: red;
    text-align: left;
}

p {
    color:rgb(12, 29, 24)
}
```

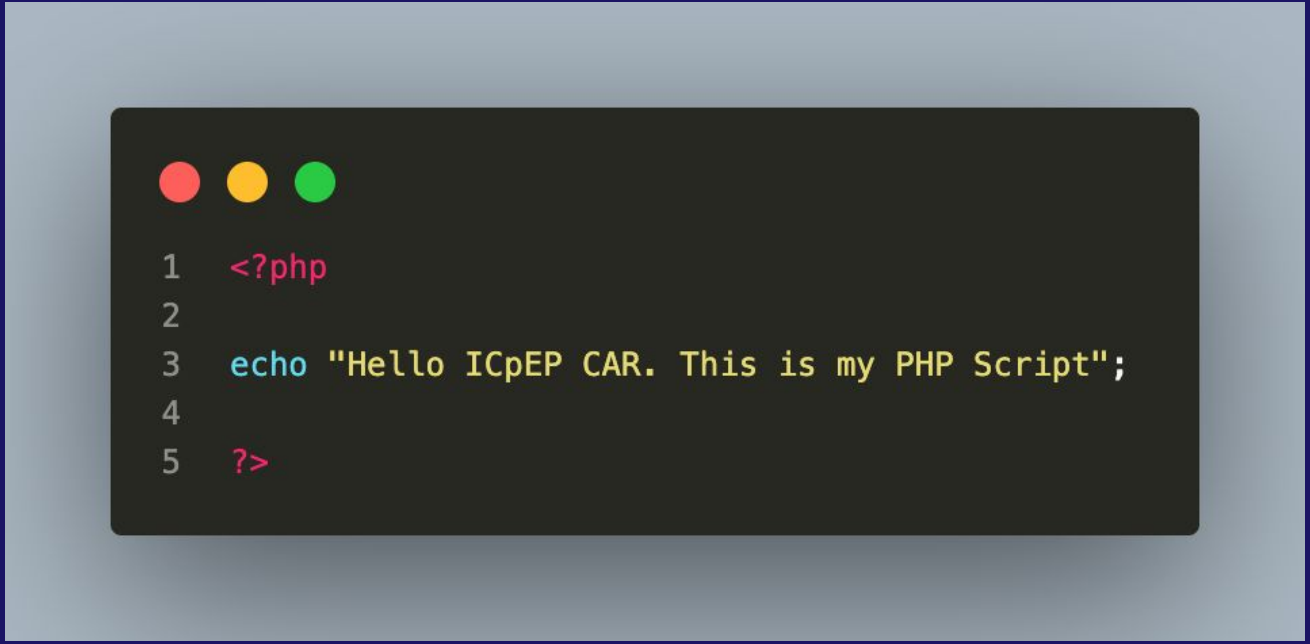


JavaScript

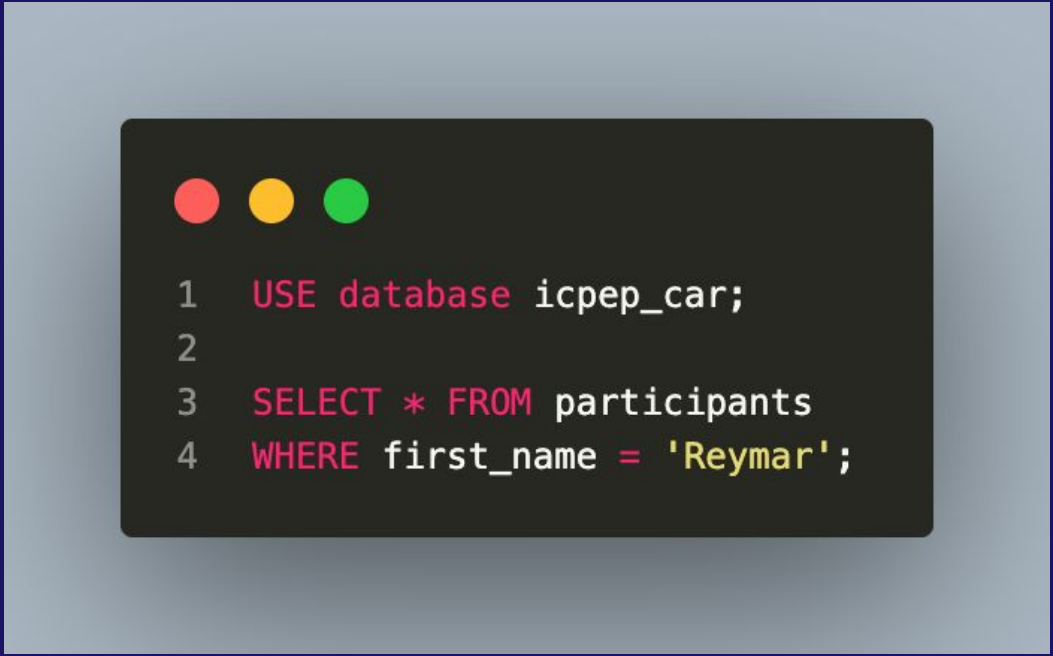
```
1  <script>
2      function myFunction() {
3
4          alert('I am Clicked')
5      }
6  </script>
```



Hypertext Preprocessor (PHP)



Structured Query Language (SQL)



```html
<!DOCTYPE html>
<html>
<title>Simple HTML</title>
<style>
    body { background-color: rgb(197, 218, 235); }
    h1 { color: red; text-align: left; }
    p { color:rgb(12, 29, 24) }
</style>
<body>

<h1>Hello, ICpEP CAR</h1>
<p>Welcome.</p>

<button id="demo" onclick="myFunction()">Click Me!</button><br>

<?php echo "Hello ICpEP CAR. This is my PHP Script"; ?>

</body>
<script>
    function myFunction() {
        alert('I am Clicked')
    }
</script>
</html>
```

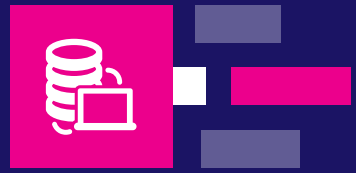
User Requirements?

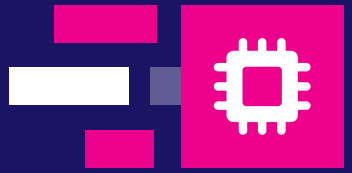
Security

Authentication,
Authorization, Encryption

SPA

Single Page
Application



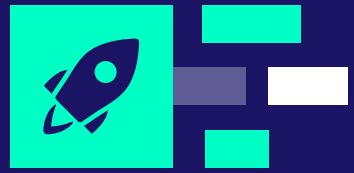


API

Application Programming
Interfaces

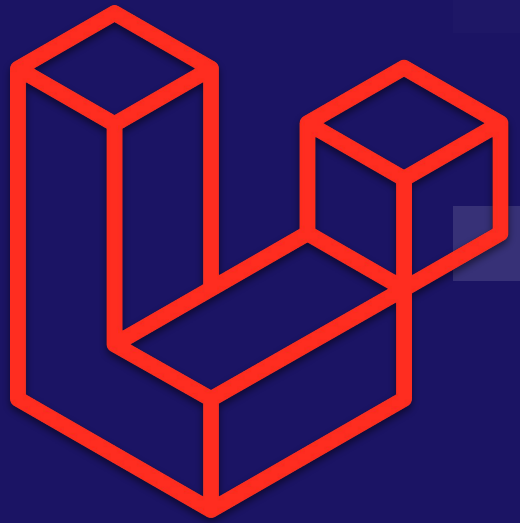
PWA

Progressive Web
Application



02

LARAVEL



“Laravel is a web application framework with expressive, elegant syntax. A web framework provides a structure and starting point for creating your application, allowing you to focus on creating something amazing while we sweat the details.”

Why Laravel?

Progressive Framework

Laravel grows with you. Its vast library of documentation, guides, and video tutorials will help you learn the ropes without becoming overwhelmed.

Scalable Framework

Laravel applications have been easily scaled to handle hundreds of millions of requests per month.

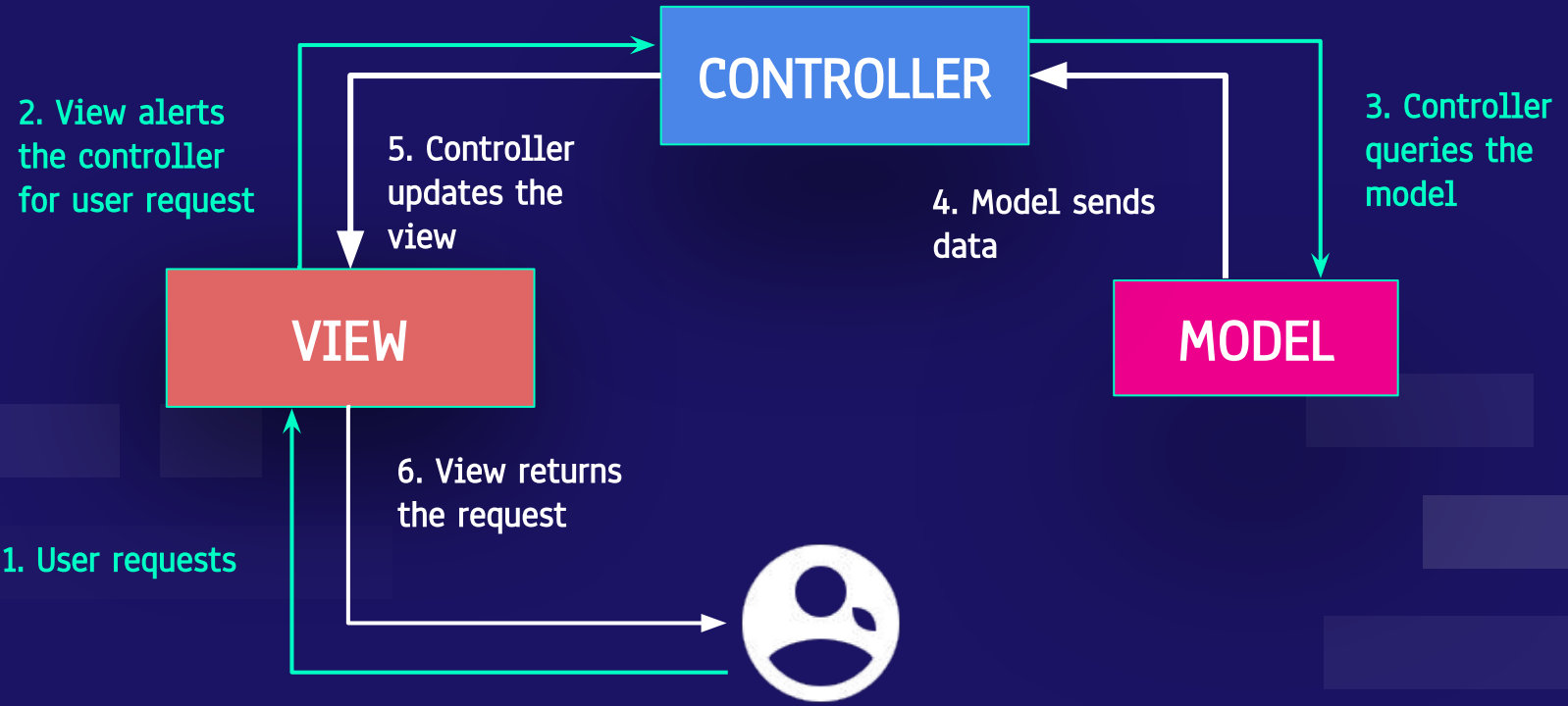
Community Framework

Laravel combines the best packages in the PHP ecosystem to offer the most robust and developer friendly framework available.

Features

1. Model-View-Controller (MVC) Architecture
2. Artisan
3. Routing
4. Libraries
5. Database (ORM, Migration)
6. Security
7. Blade Template

1. MVC Architecture Support



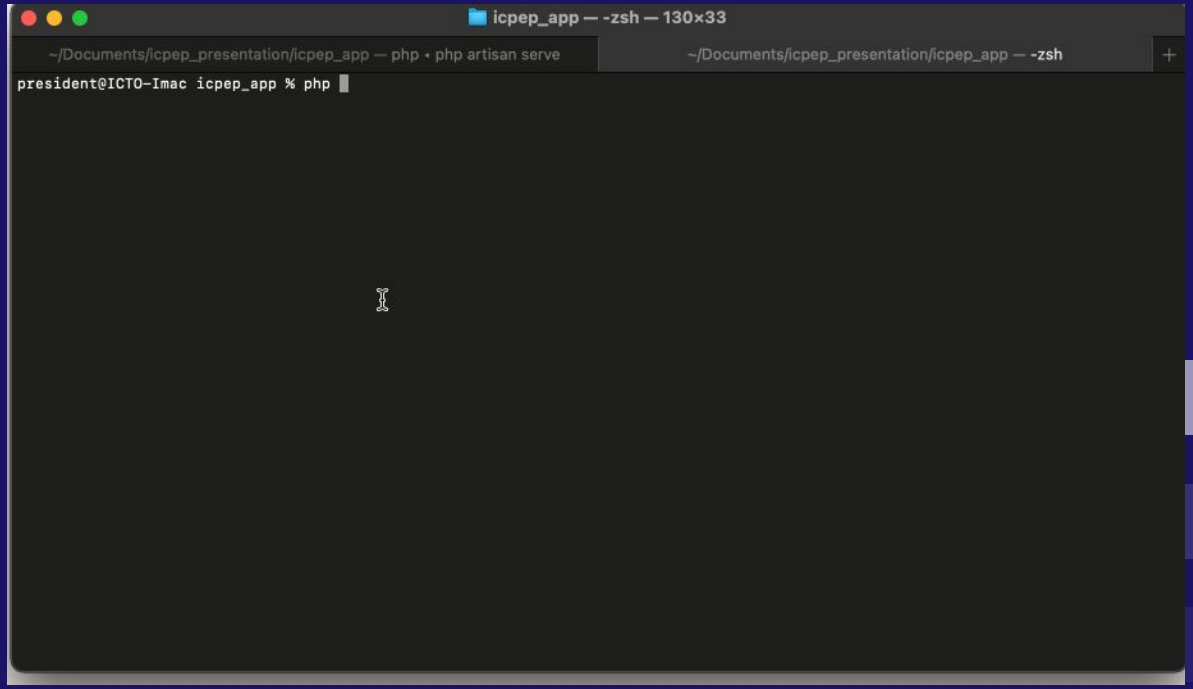
Install Laravel

1. composer create-project laravel/laravel app_name
2. cd app-name
3. php artisan serve

Installation:
https://laravel.com/docs/8.x/installation

2. Artisan

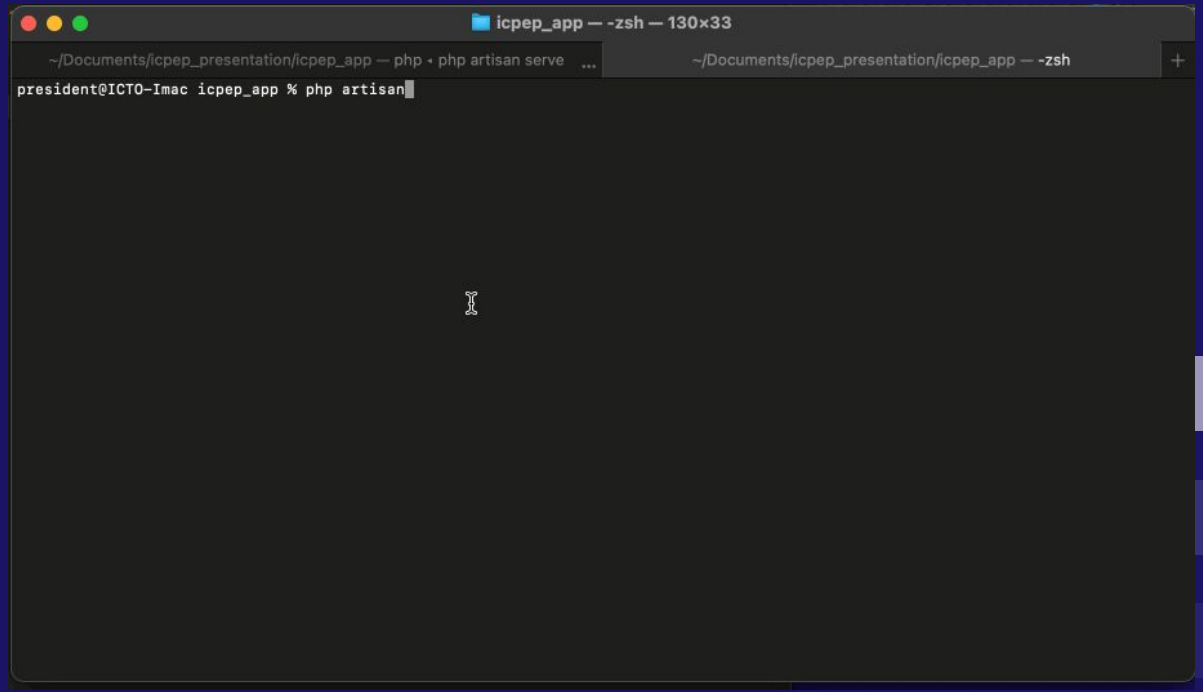
Laravel Artisan is a command-line tool that performs repetitive programming tasks that do not allow the PHP developers to perform manually.



3. Routing

Routing creates the paths of your site that requires authentication.

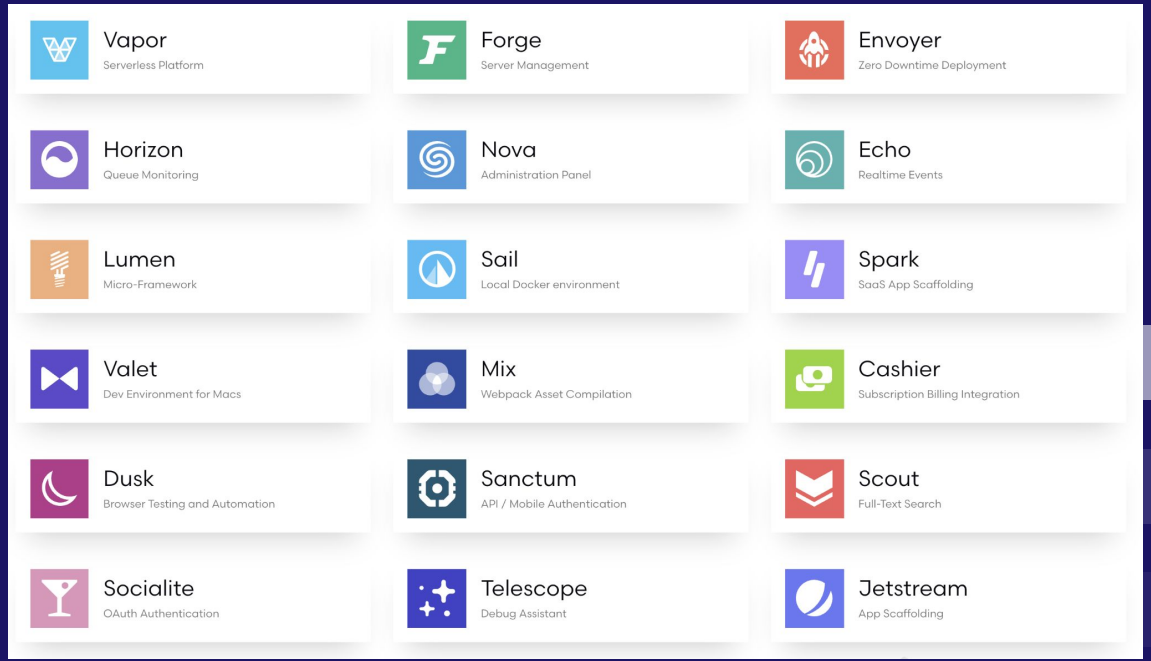
This is used in attaching the Application URLs to the specific controller view or action.



4. Libraries/Packages

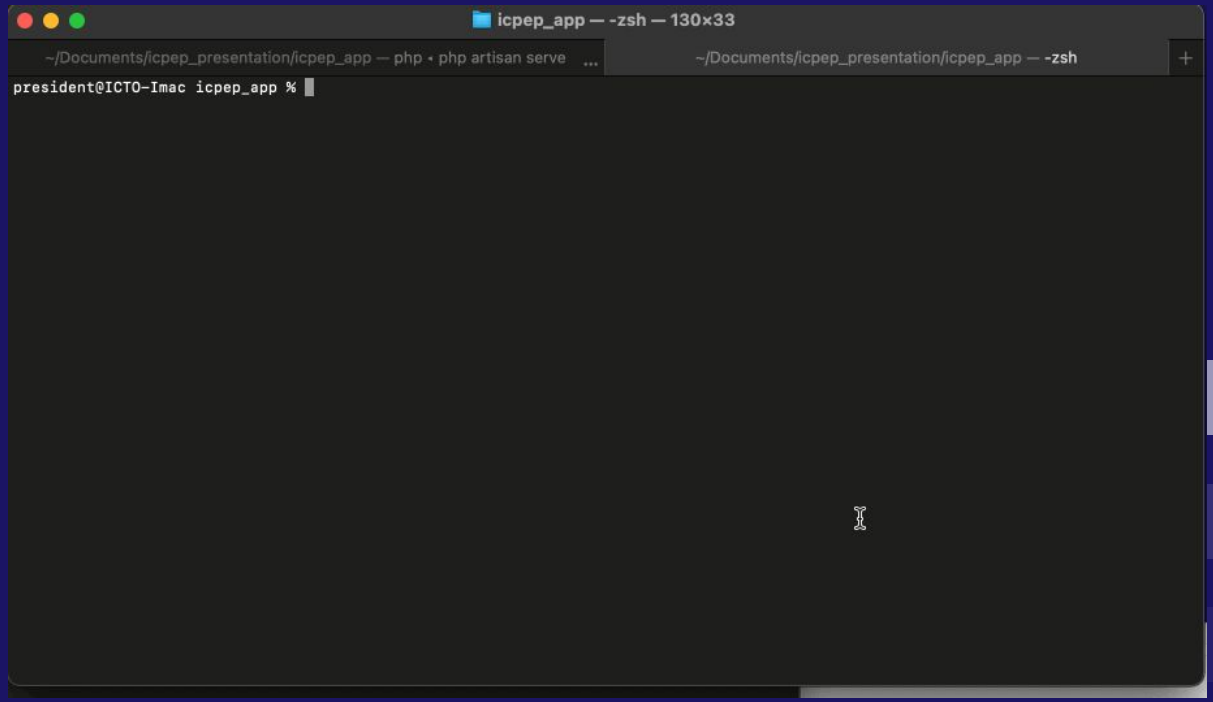
Laravel is very popular as some Object-oriented libraries, and pre-installed libraries are added to this framework.

The authentication library used for a password reset, monitoring user activities, BCrypt hashing, and CSRF protection.



5. Database (ORM, Query Builder)

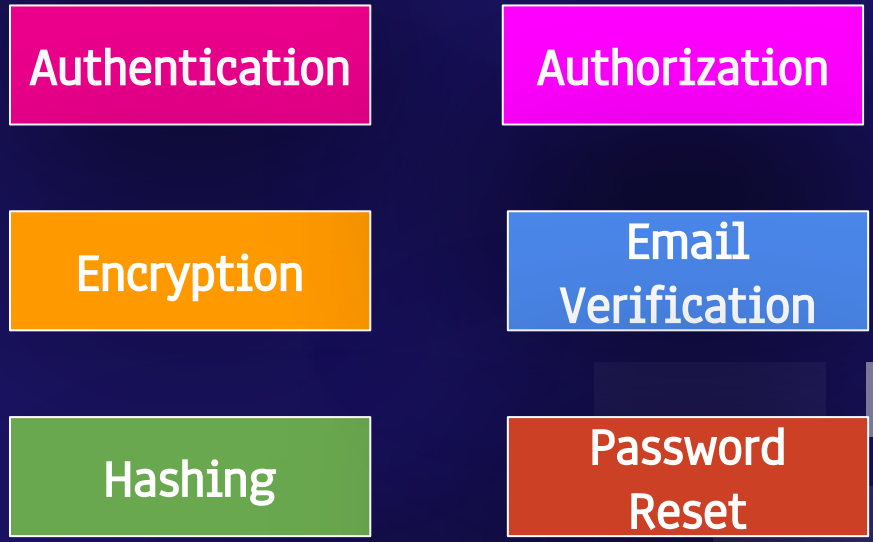
Laravel makes interacting with databases extremely simple across a variety of supported databases using raw SQL, a fluent query builder, and the Eloquent ORM.



5. Security

Application security is one of the most important factors in web application development.

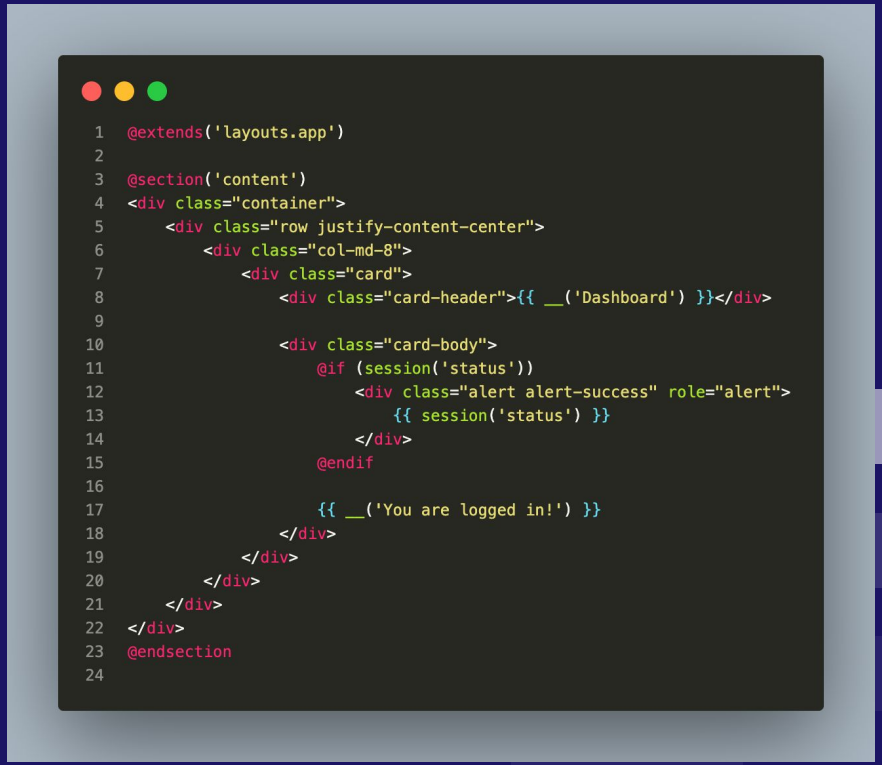
Laravel has an inbuilt web application security.



6. Blade Template

Blade is the simple, yet powerful templating engine that is included with Laravel.

Blade templates are compiled into plain PHP code and cached until they are modified, meaning Blade adds essentially zero overhead to your application



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

@section('content')
<div class="container">
    <div class="row justify-content-center">
        <div class="col-md-8">
            <div class="card">
                <div class="card-header">{{ __('Dashboard') }}</div>

                <div class="card-body">
                    @if (session('status'))
                        <div class="alert alert-success" role="alert">
                            {{ session('status') }}
                        </div>
                    @endif

                    {{ __('You are logged in!') }}
                </div>
            </div>
        </div>
    </div>
</div>
@endsection

```

So, where is Vue JS?

03

Vue JS

“Vue (pronounced /vjuː/, like view) is a progressive framework for building user interfaces”

Why Vue?

Approachable

Already know HTML, CSS and JavaScript? Read the guide and start building things in no time!

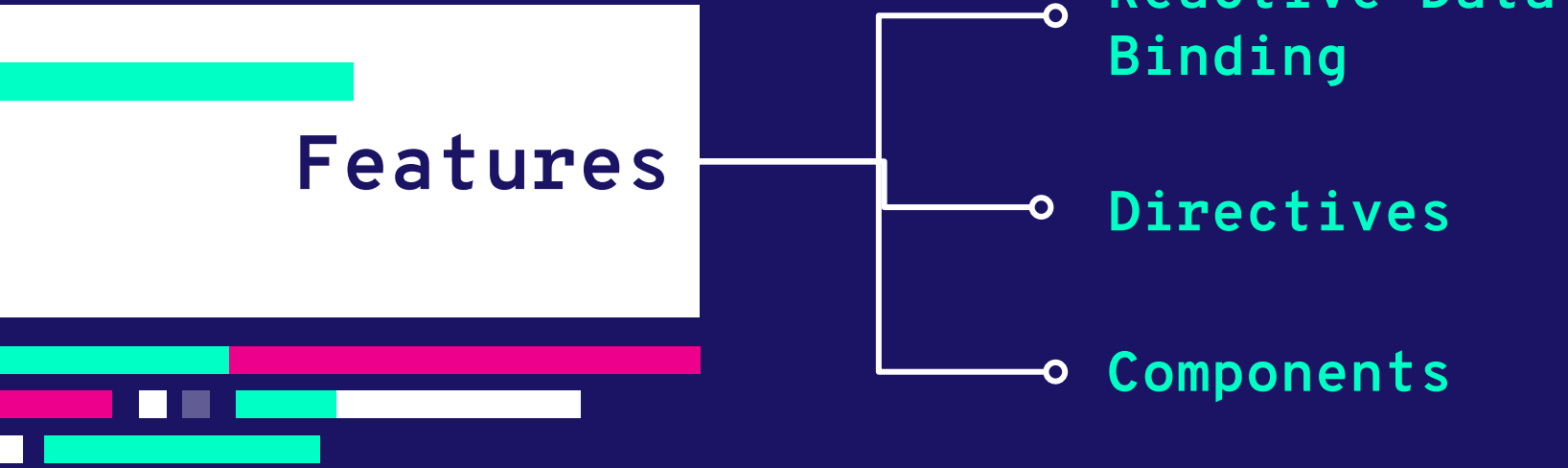
Versatile

An incrementally adoptable ecosystem that scales between a library and a full-featured framework.

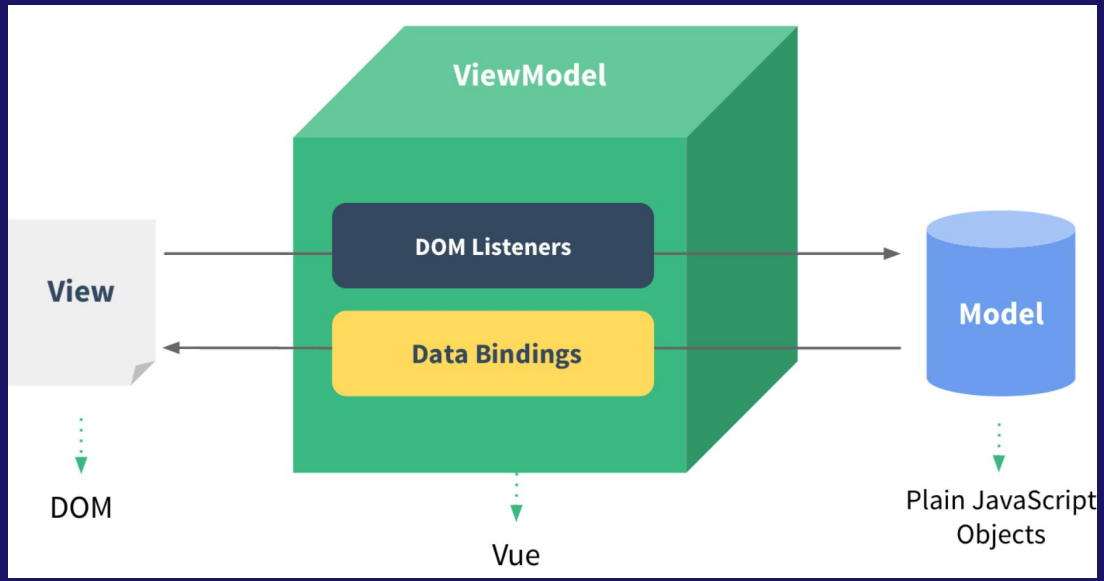
Performant

20KB min+gzip Runtime
Blazing Fast Virtual DOM
Minimal Optimization Efforts

Features



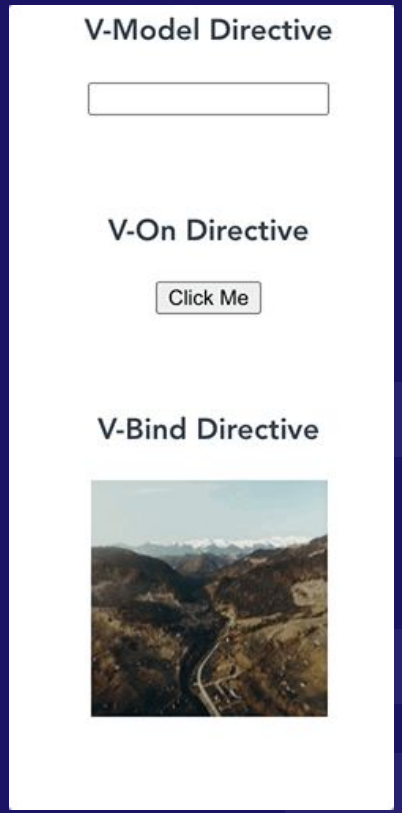
Reactive Data Binding



Directives

Directives are the part of Vue.js that attach special meaning and behavior to plain html elements on the page.

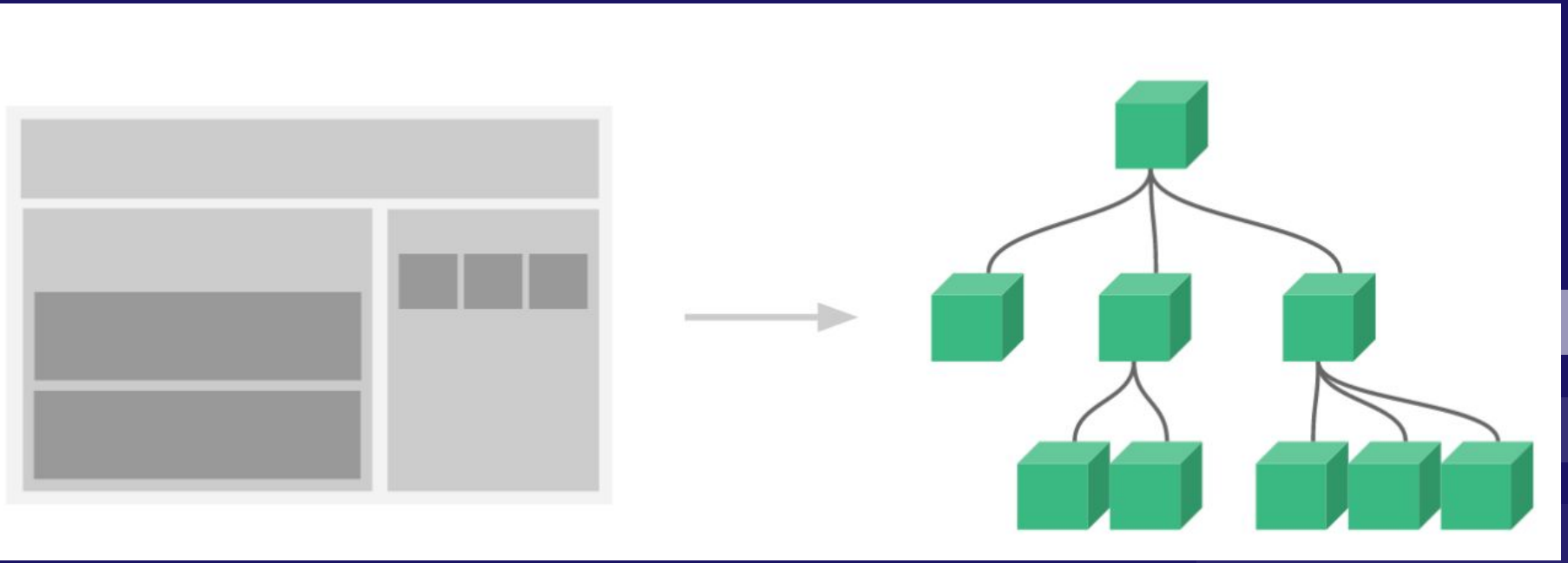
- v-model
- v-on
- v-bind



Components

```
    <div id="app">
      <vmodel></vmodel>
    </div>
</template>

<script>
import vmodel from "./components/v_model.vue";
export default {
  name: "App",
  components: {
    vmodel,
  },
};
</script>

<style>
```

Components



Let’s integrate it.

THANKS !

Do you have any questions?

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https://ksu.edu.ph

RESOURCES

- Laravel.com
- Vuejs.com
- https://github.com/reymar111/icpep_car
- https://taglineinfotech.com/php-laravel-features-2021
- https://www.caddis.co/uploads/meetups/Why-VueJS.pdf
- https://andreynaldoni.github.io/vue-intro-slides