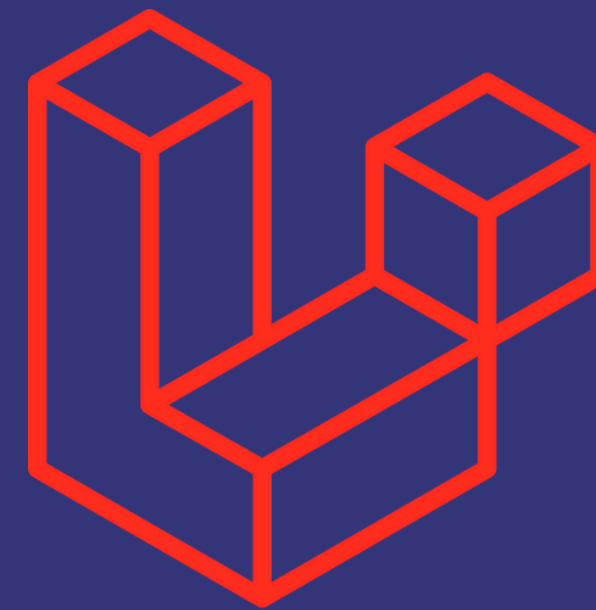# Meet Laravel

- Laravel is a web application framework.

- Elegant syntax and powerful tools.

- MVC architecture for easy maintenance and testing.

- Robust security features against common attacks.

- Extensive documentation and community support.

- Rapid application development with built-in tools and features.
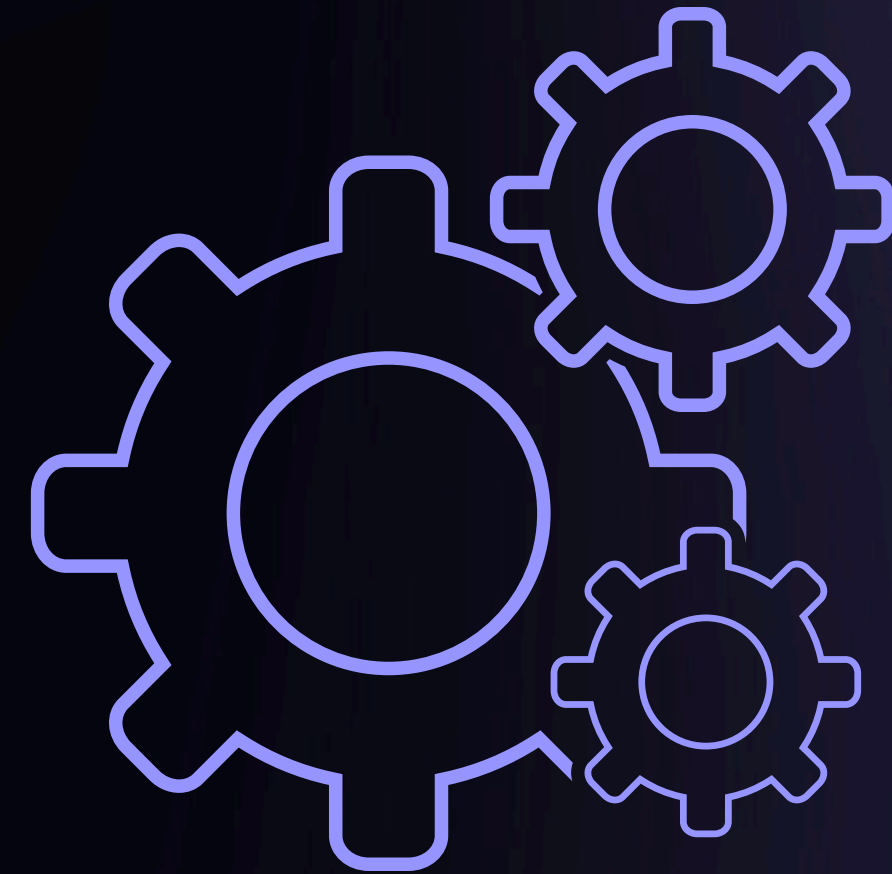
ENVIRONMENT SETUP

Composer:
An application-level dependency manager for the PHP programming language that provides a standard format for managing dependencies of PHP software and required libraries.

PHPStrome:
PHPStorm is an integrated development environment (IDE) specifically designed for PHP development. It provides powerful coding assistance and debugging features to streamline PHP development.
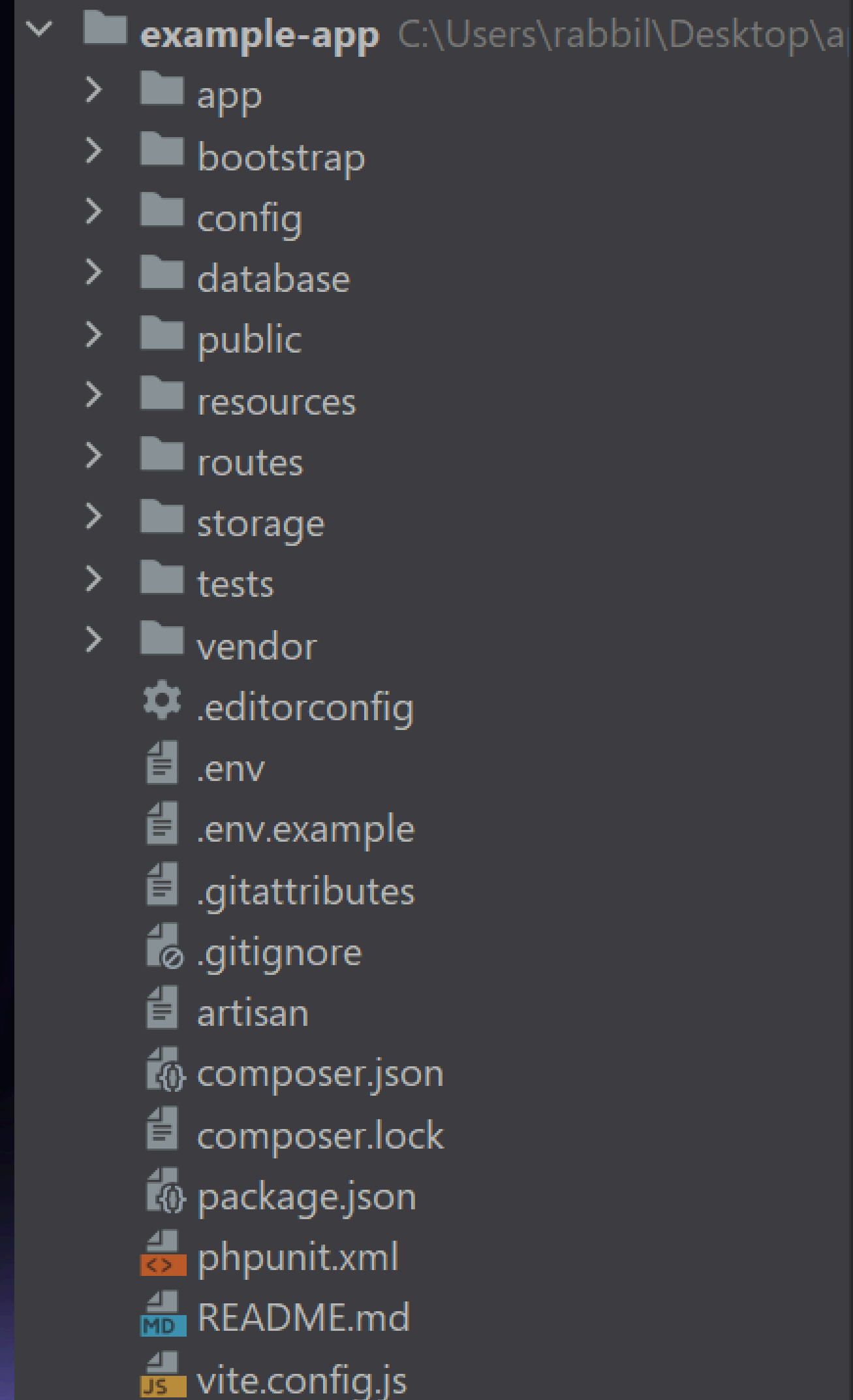
Visual Studio Code:
A free and open-source code editor developed by Microsoft. It supports a wide range of programming languages and provides a customizable and extensible environment for coding.

Learn with
Rabbil

YOUR FIRST
LARAVEL PROJECT

Understanding Project Structure

```
composer create-project laravel/laravel example-app
```

example-app C:\Users\rabbil\Desktop\a

- app
- bootstrap
- config
- database
- public
- resources
- routes
- storage
- tests
- vendor
- .editorconfig
- .env
- .env.example
- .gitattributes
- .gitignore
- artisan
- composer.json
- composer.lock
- package.json
- phpunit.xml
- README.md
- vite.config.js

ARTISAN COMMANDS

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For Starting Development Server

```
php artisan serve
```

For Maintenance Mode Enable

```
php artisan down
```

For Maintenance Mode Disable

```
php artisan up
```

For Route List

```
php artisan route:list
```

Generate Application Key

```
php artisan key:generate
```

Configuration cache cleared

```
php artisan config:clear
```

Route cache cleared

```
php artisan route:clear
```

Compiled views cleared

```
php artisan view:clear
```

Cached events cleared

```
php artisan event:clear
```

Application cache cleared

```
php artisan cache:clear
```

ARTISAN COMMANDS

For Controller

```
php artisan make:controller ArticleController
```

For Eloquent Model

```
php artisan make:model Article
```

For Migration

```
php artisan make:migration create_articles_table
```

To do database migration

```
php artisan migrate
```

Vue Front-end Scaffolding

```
php artisan ui vue
```

React Vue Front-end Scaffolding

```
php artisan ui react
```

Bootstrap Front-end Scaffolding

```
php artisan ui bootstrap
```

To remove the scaffolding

```
php artisan preset none
```

Learn with Rabbil

ARTISAN COMMANDS

New middleware class

```
php artisan make:middleware CheckAge
```

New email class

```
php artisan make:mail OrderShipped
```

BASIC ROUTING

- Route files located in the routes directory

- The route/web.php directory contains the definition of route files for your web interface

- The routes in web.php are assigned with the web middleware group that provides the features like session state and CSRF protection.

- The routes defined in routes/api.php are assigned with the API middleware group, and they are stateless.

```php
web.php

7  Route::get('/hello', function () {
8      return 'Hello from web route ';
9  });
```

Meet Postman

- Postman is a popular collaboration platform for API/Server-Side development, allowing developers to design, test, and share their API/Server-Side.

- It offers a user-friendly interface for creating HTTP requests and responses, making it easy to test API/Server-Side endpoints and troubleshoot issues.

- Postman supports a wide range of HTTP methods, including GET, POST, PUT, PATCH, DELETE, and more, making it suitable for testing various types of API/Server-Side.

- The tool offers a powerful scripting environment, allowing developers to write and run automated tests and perform complex API/Server-Side workflows.

- Postman is available as both a desktop application and a web-based platform, making it easy to use across different devices and operating systems.