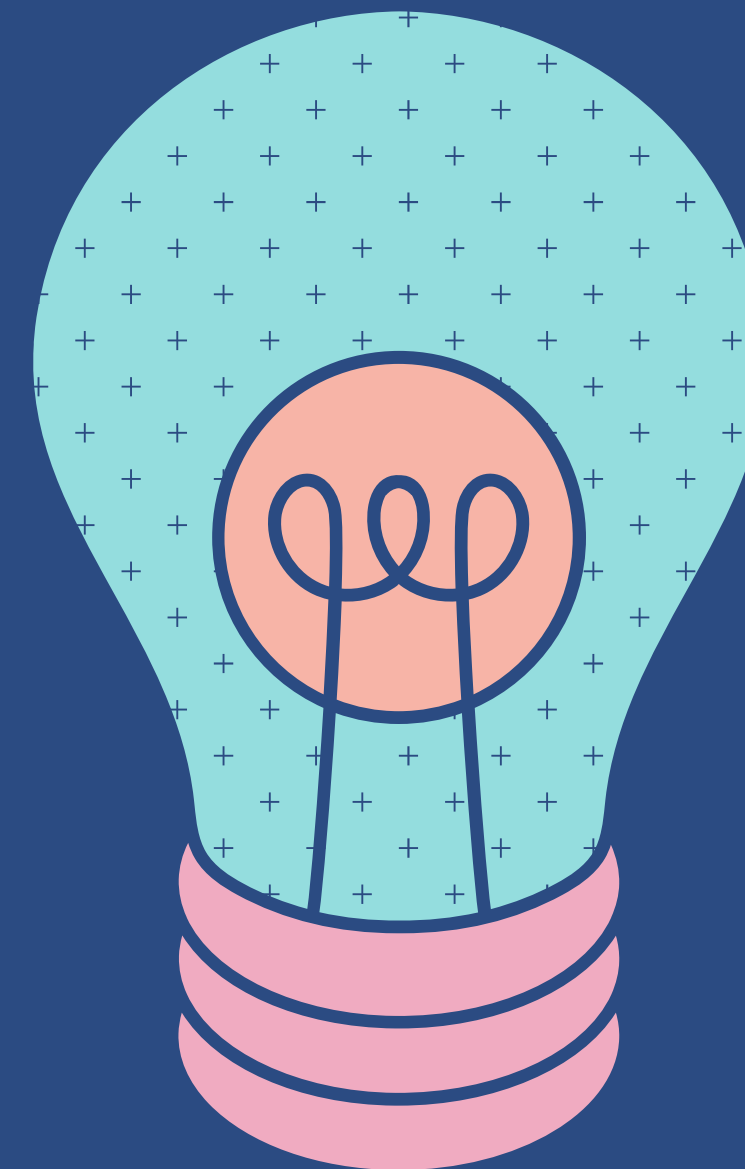


Basic Laravel

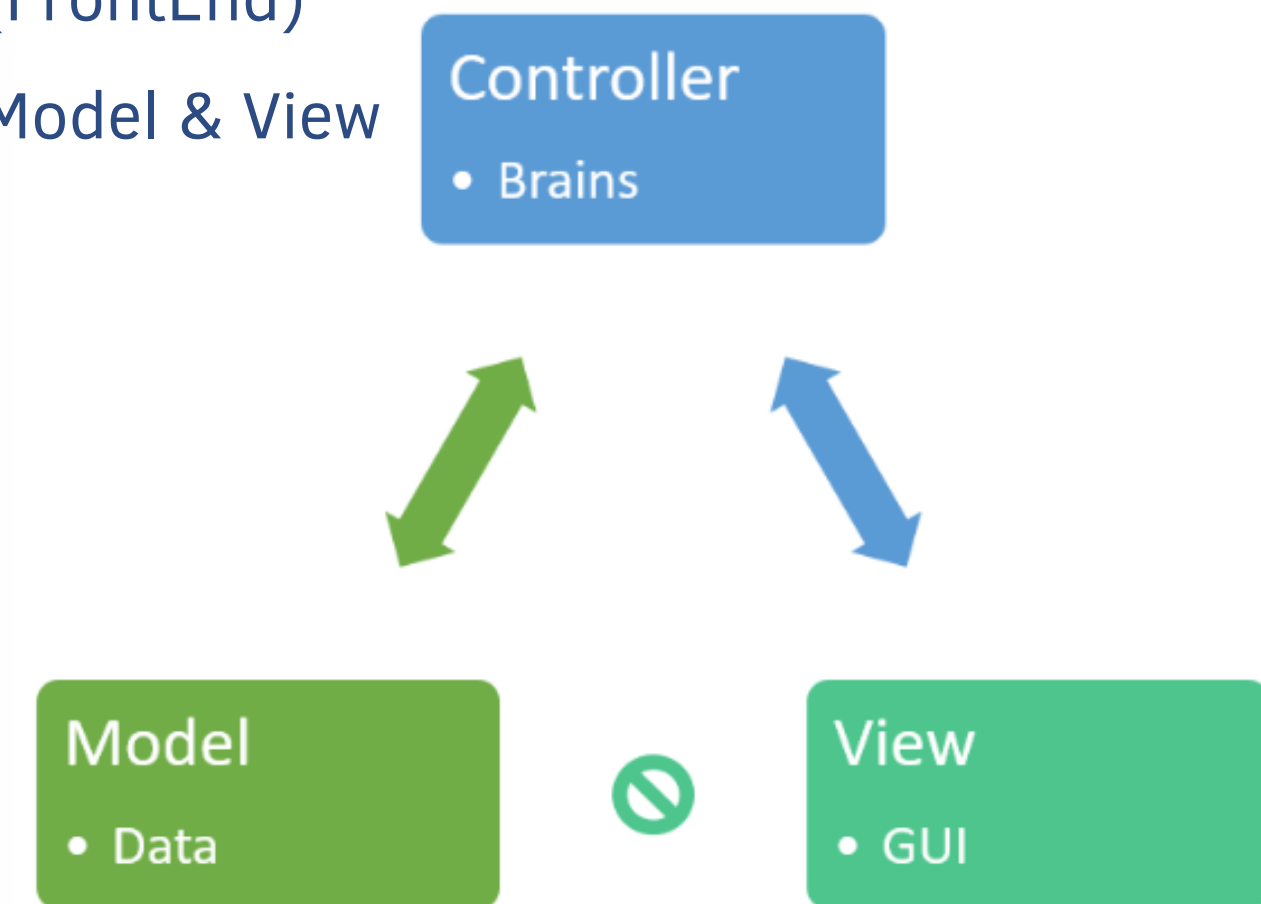
BY TRY VORN



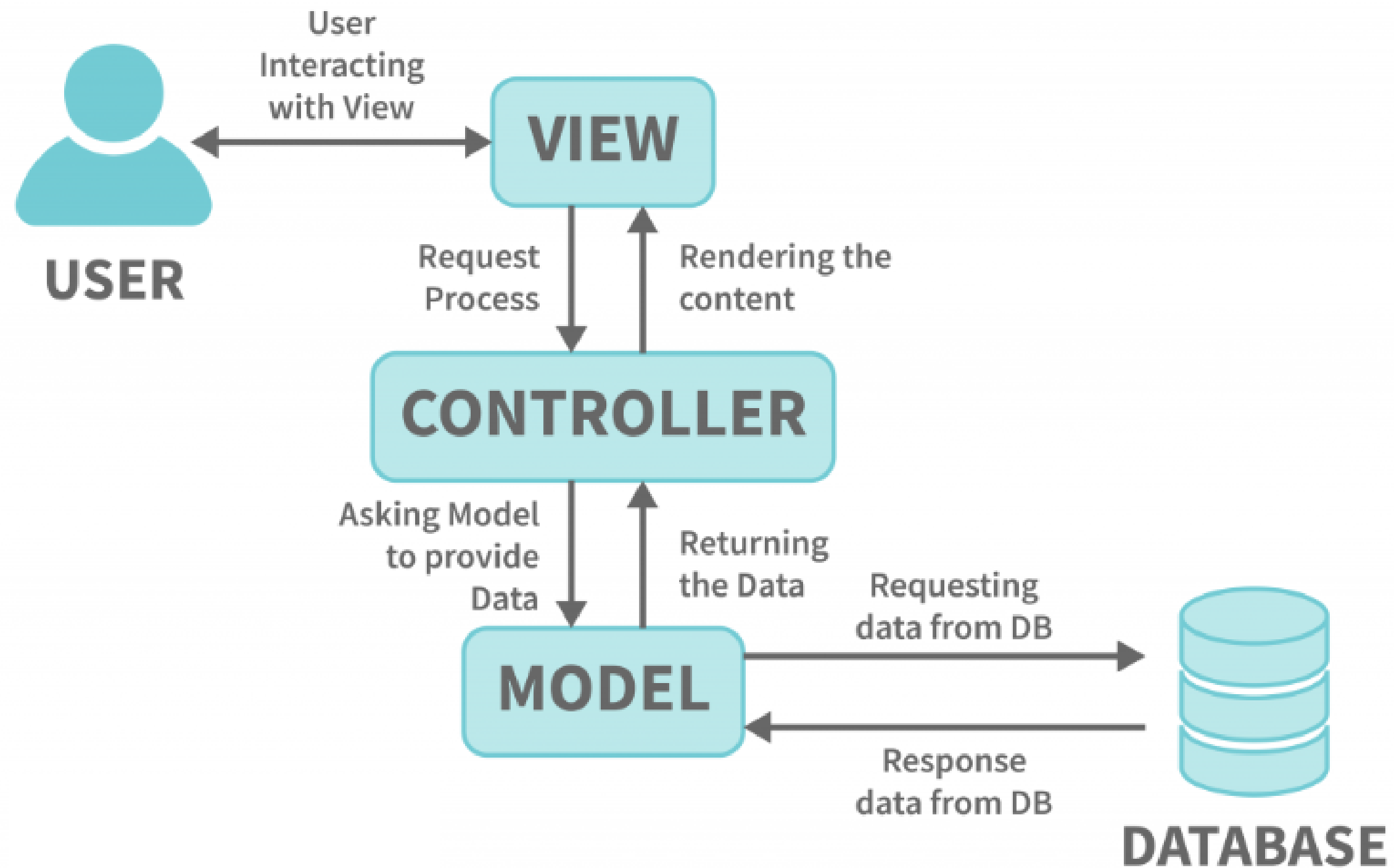
What is MVC Architecture?

Laravel is a free and open-source web PHP framework, which is based on MVC (**Model-View-Controller**) architecture. A Framework provides structure and starting point for creating your application.

- **Model**: Business Logic (Database)
- **View**: Presentation Layer (FrontEnd)
- **Controller**: Glue Between Model & View



MVC Architecture

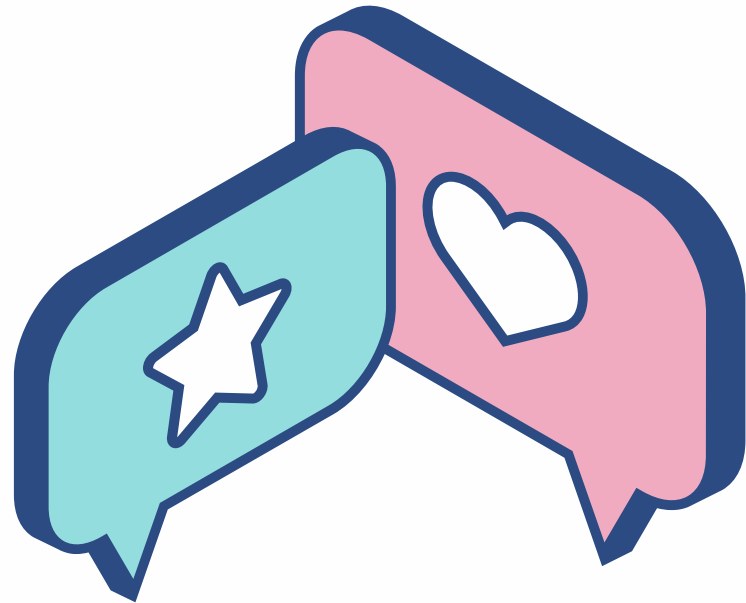


Let's see Model View Controller example from daily life:

MVC Example

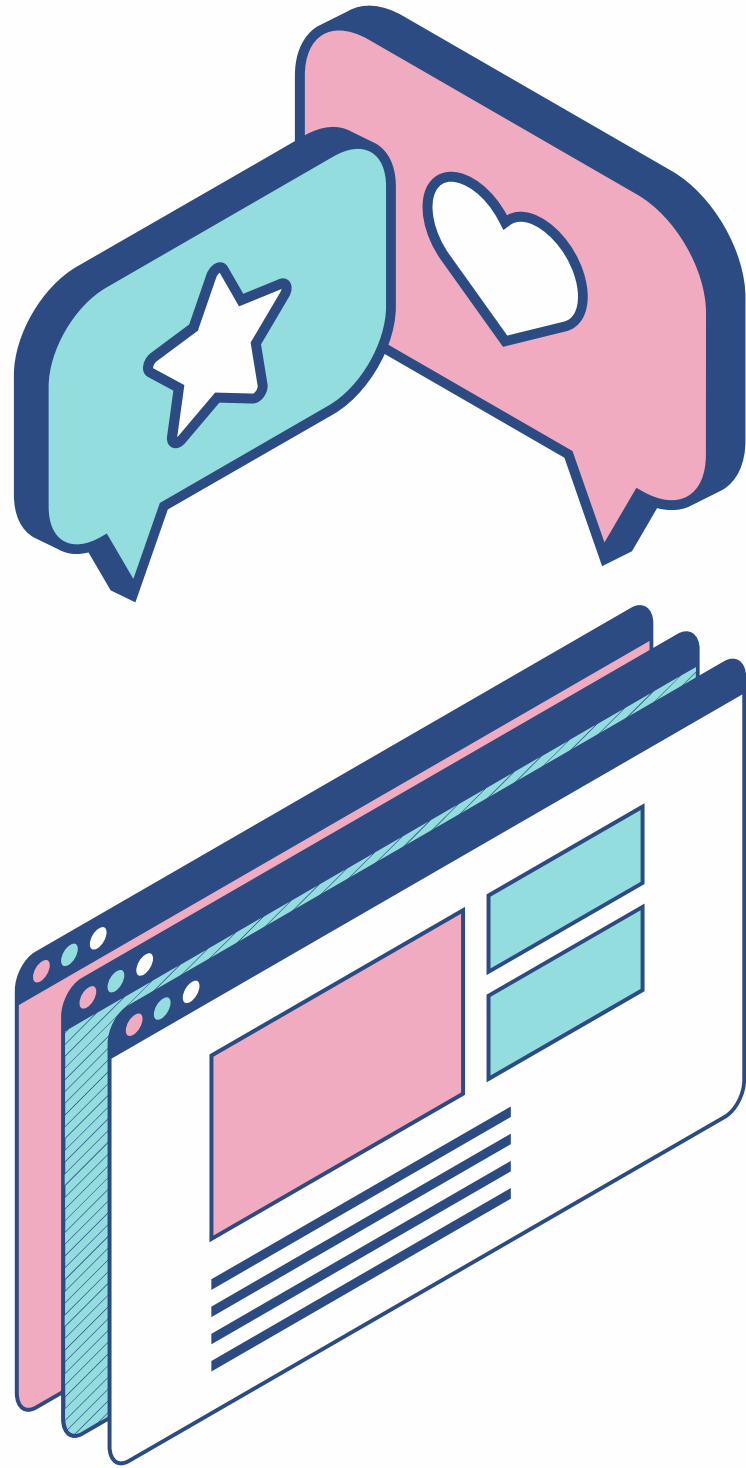


- View= You
- Waiter= Controller
- Cook= Model
- Refrigerator= Data



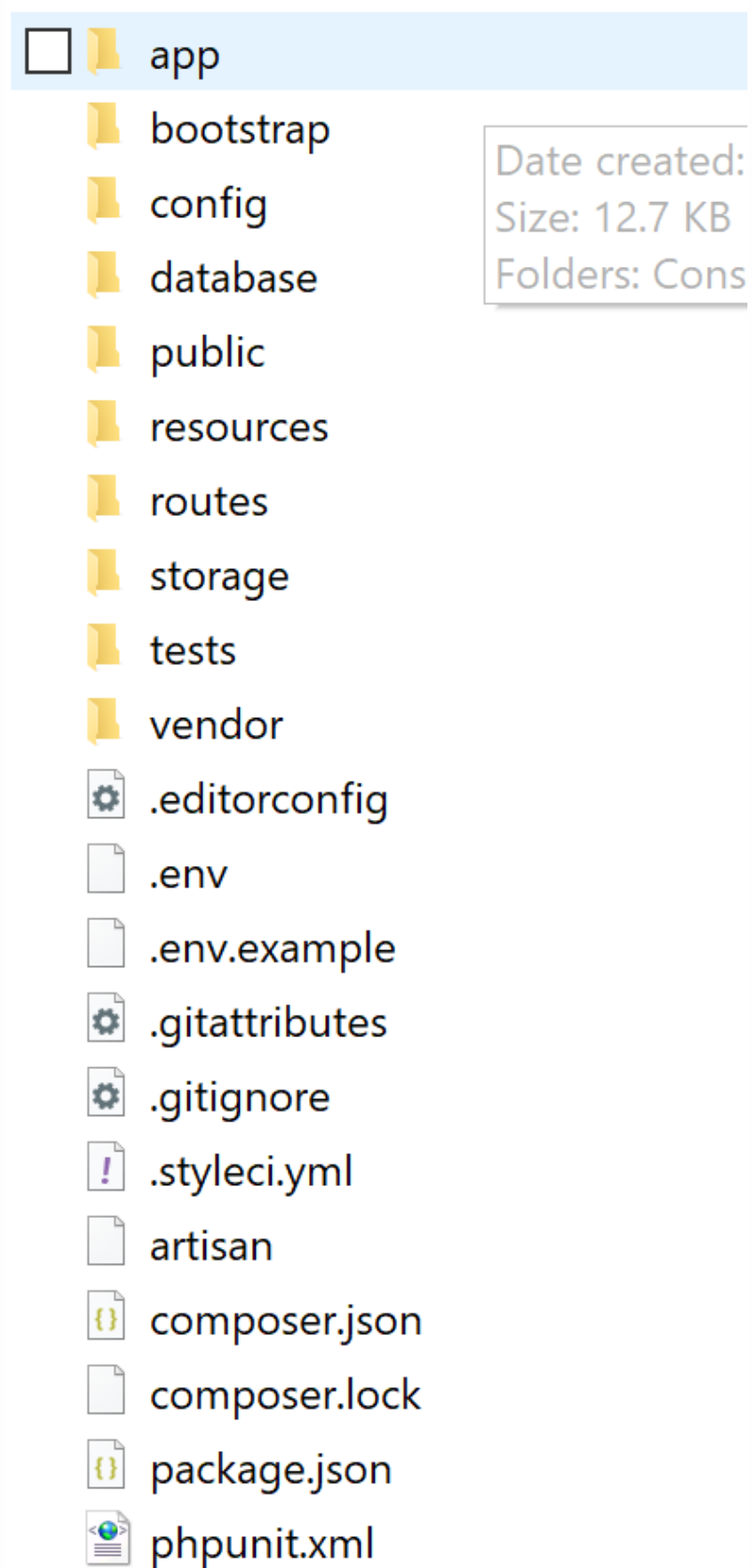
Benefits of MVC

- Easy Coding
- Traditionally used for Graphical user interfaces (GUIs)
- Popular in web applications
- MVC responsibilities are divided between the client & server, compatible with web application architecture
- MVC is helpful design pattern when planning development
- Separation of Concerns: that code is divided based on function to either the model, view, or controller bucket
- Easier to maintain or modify
- Supports Multiple views



Why Laravel ?

- Authorization make it easy
- Built-in command **Artisan**
- Security
- Power template engine **Blade**
- Great tutorial **Laracasts**, <https://laracasts.com/>
- Database migration (easy to connect with database)
- Fast development time
- testing ready



Directory Structure

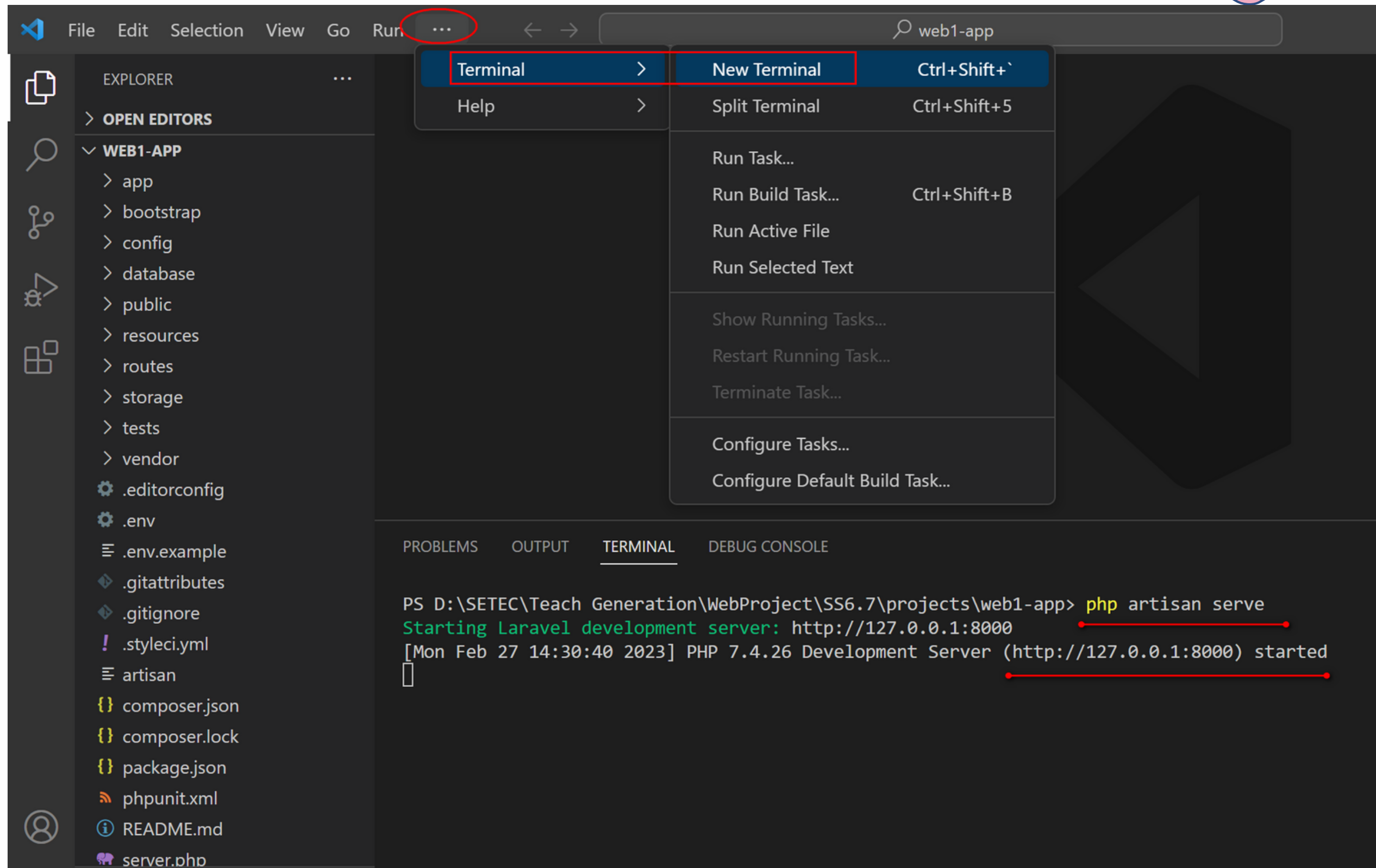
- app: contain core code
- bootstrap: for framework bootstrapping
- config: configuration files
- database: migration, seeding, and fake data
- public start point of applicaton
- resource: view
- routes: routing
- storage: complied blade template and user upload
- tests: automated testing



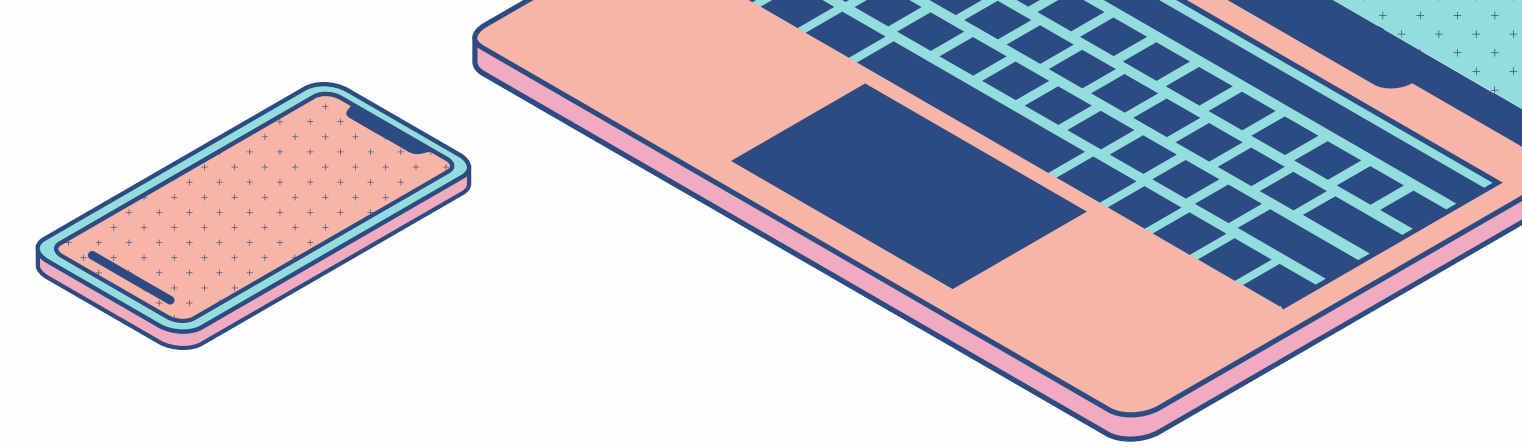
Laravel Core Knowledge

- Routing (config URL)
- Middleware (including other software/web technology)
- CSRF Protection (encryption)
- Request and Response (read and write data)
- Validation
- Security With Authentication and Authorization (login)
- Eloquent ORM (Connecting to database)
- Notification, Event, Scheduler, Cache, Mail, etc

Open/Run Project with Visual Studio



Routing



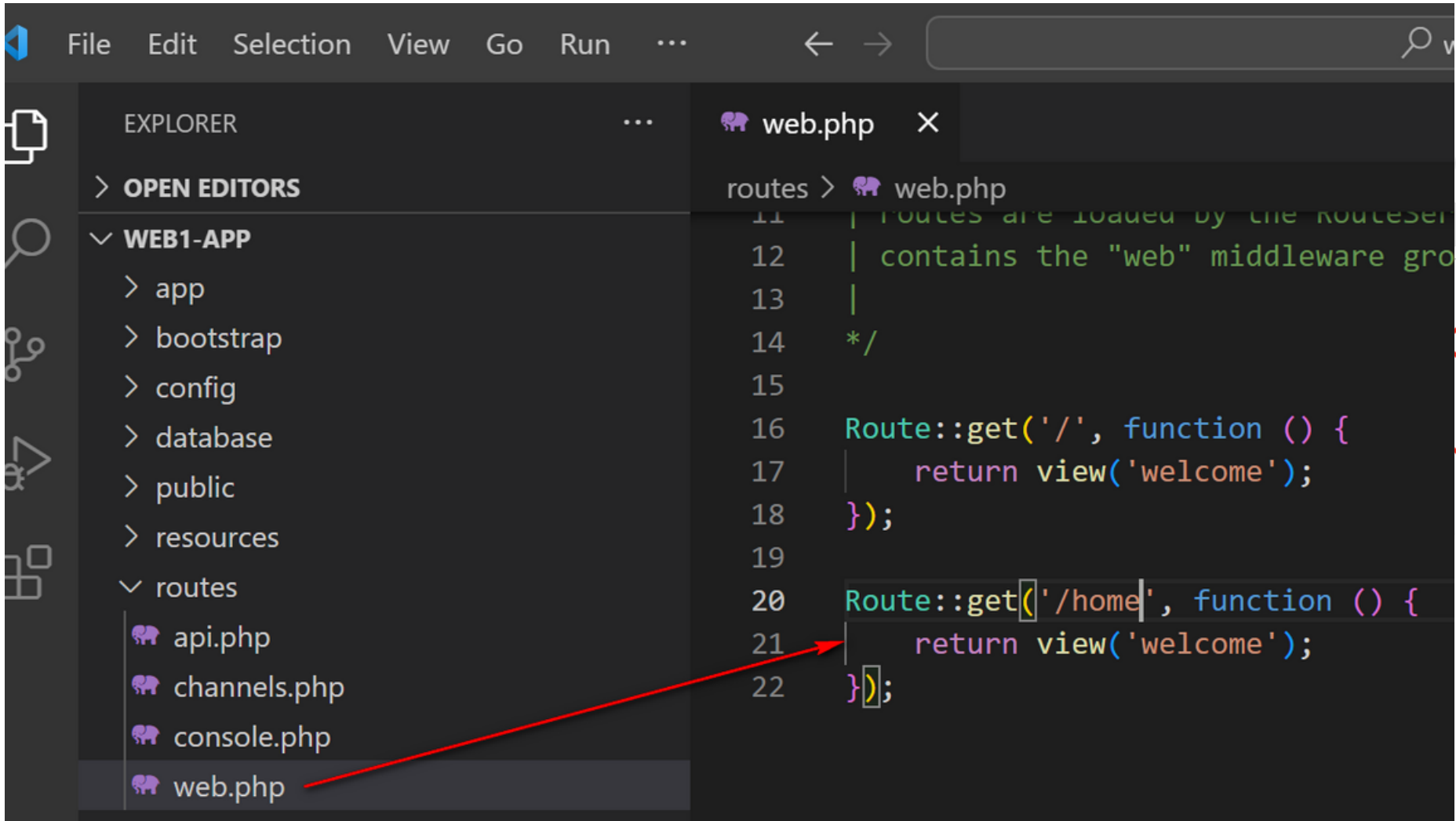
What Is a Route?

The route is a way of creating a request URL for your application.

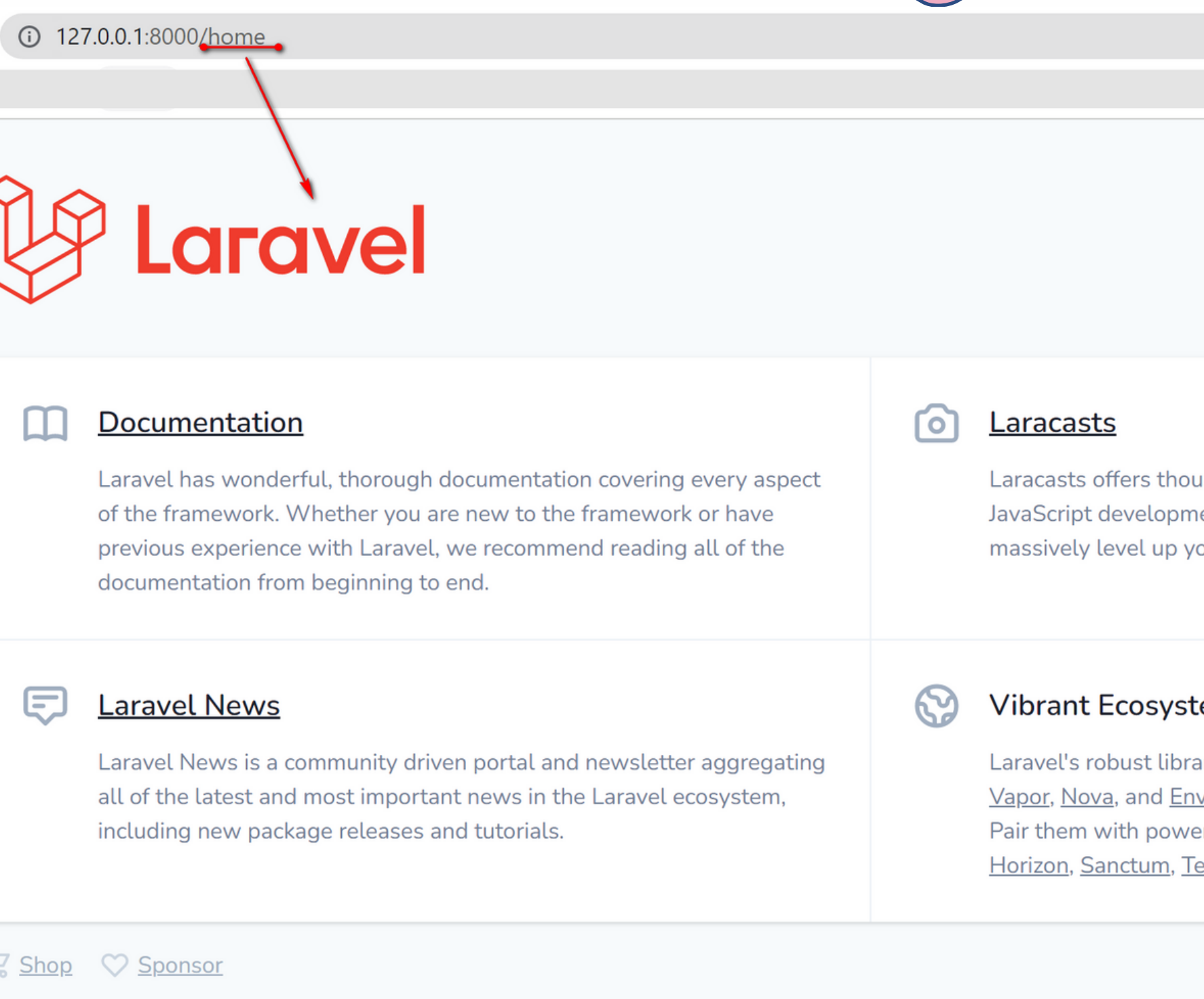
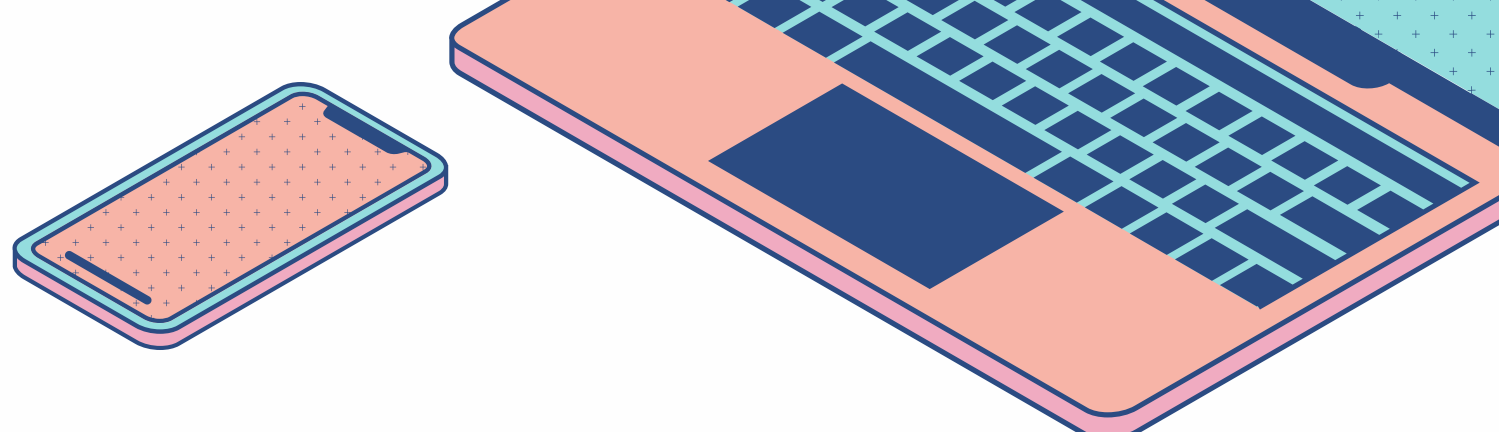
A screenshot of a code editor interface. On the left, the 'EXPLORER' sidebar shows a project structure for 'WEB1-APP' with folders like 'app', 'bootstrap', 'config', 'database', 'public', 'resources', 'routes', and 'storage'. The 'routes' folder is expanded, and 'web.php' is selected. A red circle highlights the 'routes' folder, and a red arrow points from it to the code editor. The code editor shows the contents of 'web.php' with line numbers 11 to 19. The code defines a route for the root path ('/') using the 'Route::get' method, which returns a 'welcome' view. A red box highlights the route definition code.

```
11 | Routes are loaded by the RouteServiceProvider within a group which
12 | contains the "web" middleware group. Now create something great!
13 |
14 */
15
16 Route::get('/', function () {
17     return view('welcome');
18 });
19
```

Routing (count...)




```
File Edit Selection View Go Run ...
EXPLORER
OPEN EDITORS
WEB1-APP
  app
  bootstrap
  config
  database
  public
  resources
  routes
    api.php
    channels.php
    console.php
    web.php
routes > web.php
11 | Routes are loaded by the RouteServiceProvider
12 | contains the "web" middleware group
13 |
14 */
15
16 Route::get('/', function () {
17     return view('welcome');
18 });
19
20 Route::get('/home', function () {
21     return view('welcome');
22 });
```




127.0.0.1:8000/home


Laravel

 [Documentation](#)


Laravel has wonderful, thorough documentation covering every aspect of the framework. Whether you are new to the framework or have previous experience with Laravel, we recommend reading all of the documentation from beginning to end.

 [Laracasts](#)



Laracasts offers thorough Laravel and JavaScript development tutorials that will massively level up your skills.

 [Laravel News](#)

Laravel News is a community driven portal and newsletter aggregating all of the latest and most important news in the Laravel ecosystem, including new package releases and tutorials.

 [Vibrant Ecosystem](#)

Laravel's robust libraries include [Vapor](#), [Nova](#), and [Envoy](#). Pair them with powerful packages like [Horizon](#), [Sanctum](#), [Telescope](#), and [Spatie](#).

 [Shop](#)  [Sponsor](#)

Routing and Controller

Creating a Controller

Open the command prompt or terminal based on the operating system you are using and type the following command to create controller using the Artisan CLI (Command Line Interface).

eg. `php artisan make:controller SampleController`

or

`php artisan make:controller SampleController --resource`

