WEB DEVELOPMENT

LAB1

BONGAT, MAE ANNE B. BSIT-3C 08/26/2024

- Identify and document the purpose of key directories and files in the Laravel project.

1. `app/`
    - Contains the core code of the application.
        - Subdirectories and Files
            - `Console/`: Contains console commands for Artisan CLI.
            - `Exceptions/`: Contains application-specific exception classes.
            - `Http/`: Contains controllers, middleware, and form requests.
            - `Models/`: Contains Eloquent models representing database tables.
            - `Providers/`: Contains service providers which are used to bind services into the service container.

2. `bootstrap/`
    - Contains files for bootstrapping the application.
        - Subdirectories and Files-
            - `app.php`: The file that initializes the Laravel application.
            - `cache/`: Contains cache files for faster application bootstrapping.

3. `config/`
    - Contains configuration files for the application.
        - Files:
            - `app.php`: Configuration for the application's general settings.
            - `database.php`: Database connection settings.
            - `mail.php`: Configuration for mail settings.
            - `queue.php`: Queue configuration settings.

4. `database/`
    - Contains database-related files.
        - Subdirectories and Files-
            - `migrations/`: Contains migration files for managing database schema changes.
            - `factories/`: Contains model factory files for seeding the database.
            - `seeders/`: Contains database seed classes for populating the database.
5. `public/`
    - Contains publicly accessible files, including assets.
        - Files and Subdirectories-
            - `index.php`: The entry point for all requests into the application.
            - `css/`: Contains CSS files.
            - `js/`: Contains JavaScript files.
            - `images/`: Contains image files.

6. `resources/`
    - Contains resources for the application.
        - Subdirectories and Files-
            - `views/`: Contains Blade templates used to render HTML.
            - `lang/`: Contains language files for localization.
            - `sass/`: Contains SASS files for styling (if using Laravel Mix).

7. `routes/`
    - Contains route definitions.
        - Files-
            - `web.php`: Routes for web requests.
            - `api.php`: Routes for API requests.
            - `console.php`: Routes for Artisan commands.
            - `channels.php`: Channels for broadcasting.

8. `storage/`
    - Contains files generated by the application, such as logs and cached files.
        - Subdirectories-
            - `app/`: Application files and generated files.
            - `framework/`: Framework-generated files (e.g., cache, sessions).
            - `logs/`: Application log files.

9. `tests/`
    - Contains test files.
        - Subdirectories and Files-
            - -`Feature/`: Contains feature tests.
            - `Unit/`: Contains unit tests.

10. `vendor/`
    - Contains third-party packages and Laravel framework files.
      **This directory is created by Composer and should not be modified directly.

11. `.env`
    - Contains environment-specific configuration settings (e.g., database credentials, application key).

**This file should not be committed to version control and is typically included in `.gitignore`.

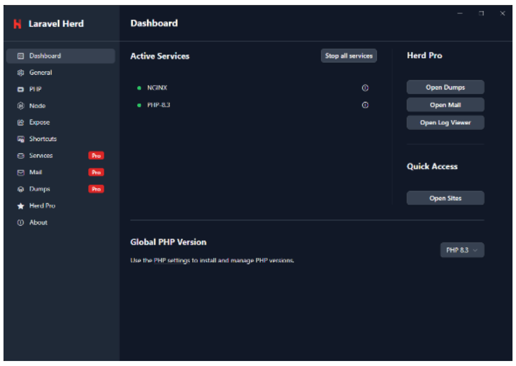
12. `composer.json`
    - Defines project dependencies and scripts.
      **Used by Composer to manage PHP package dependencies.

13. `artisan`

    - The command-line interface for Laravel. It provides commands for tasks like running migrations, generating code, and more.

DOCUMENTATIONS

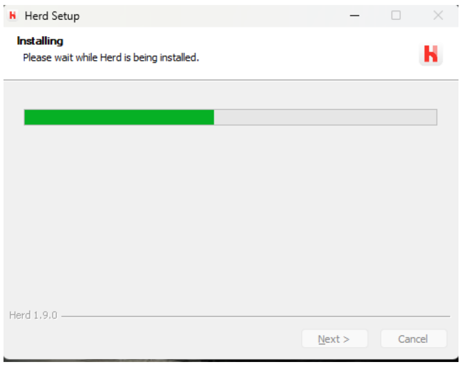
1. Install Laravel along with its dependencies.



Global PHP Version

Use the PHP settings to install and manage PHP versions.

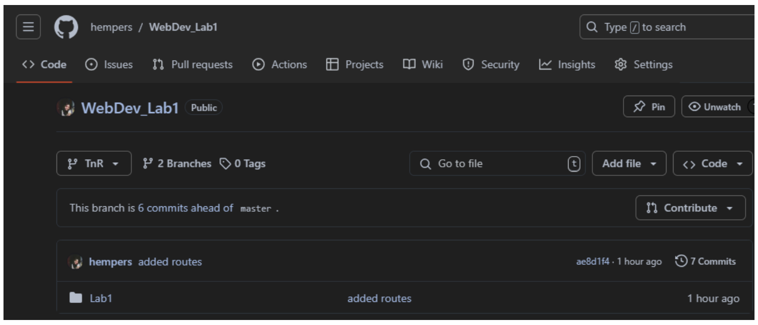
PHP 8.3



Installing

Please wait while Herd is being installed.

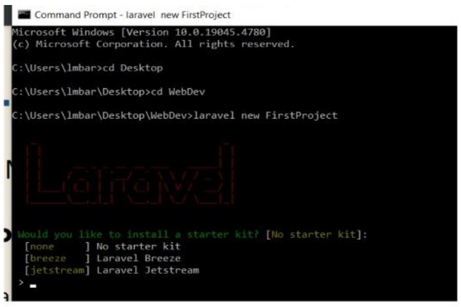
2. Create a Laravel project and put it in a Git repository



This branch is 6 commits ahead of master .

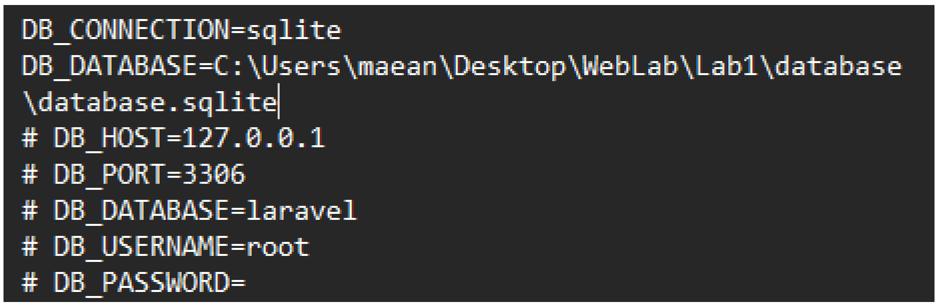
hempers added routes ae8d1f4 · 1 hour ago 7 Commits

Lab1 added routes 1 hour ago



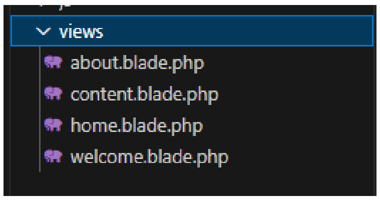
```
Microsoft Windows [Version 10.0.19045.4780]
(c) Microsoft Corporation. All rights reserved.

C:\Users\lmbar>cd Desktop

C:\Users\lmbar\Desktop>cd WebDev

C:\Users\lmbar\Desktop\WebDev>laravel new FirstProject

 Would you like to install a starter kit? [No starter kit]:
  [none      ] No starter kit
  [breeze    ] Laravel Breeze
  [jetstream] Laravel Jetstream
 >
```

3. Set up the .env file to include database connection details

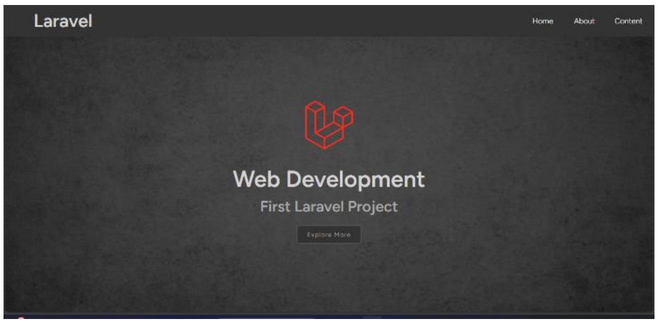


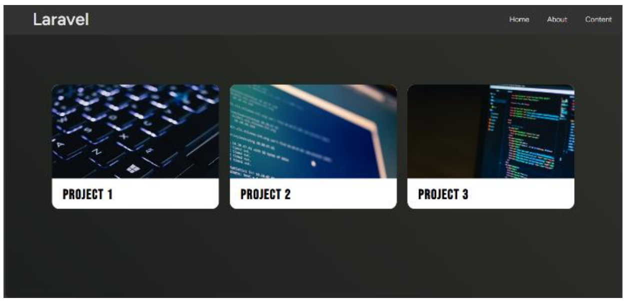
```
DB_CONNECTION=sqlite
DB_DATABASE=C:\Users\maean\Desktop\WebLab\Lab1\database
\database.sqlite
# DB_HOST=127.0.0.1
# DB_PORT=3306
# DB_DATABASE=laravel
# DB_USERNAME=root
# DB_PASSWORD=
```

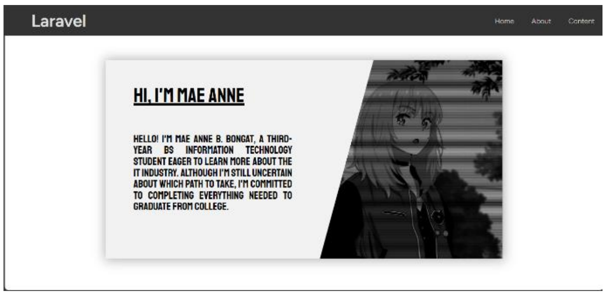
4. Create at least 3 views (homepage, about, content)



```
views
  about.blade.php
  content.blade.php
  home.blade.php
  welcome.blade.php
```



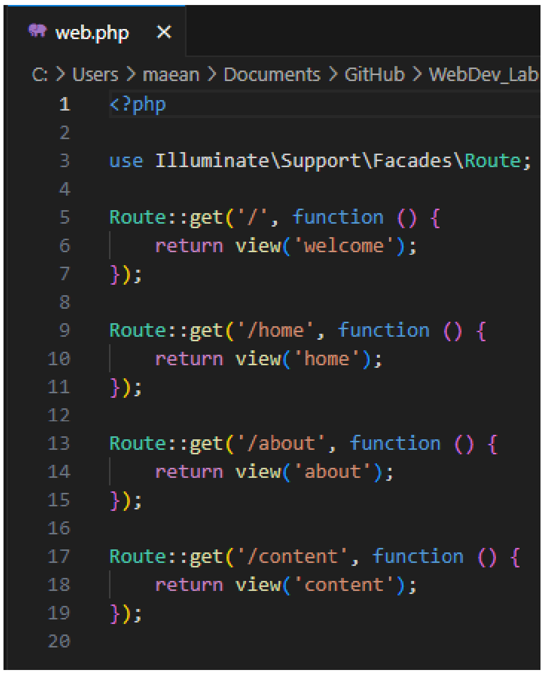




HI, I'M MAE ANNE

HELLO! I'M MAE ANNE B. BONGAT, A THIRD-YEAR BS INFORMATION TECHNOLOGY STUDENT EAGER TO LEARN MORE ABOUT THE IT INDUSTRY. ALTHOUGH I'M STILL UNCERTAIN ABOUT WHICH PATH TO TAKE, I'M COMMITTED TO COMPLETING EVERYTHING NEEDED TO GRADUATE FROM COLLEGE.

5. Create and run routes



```php
<?php

use Illuminate\Support\Facades\Route;

Route::get('/', function () {
    return view('welcome');
});

Route::get('/home', function () {
    return view('home');
});

Route::get('/about', function () {
    return view('about');
});

Route::get('/content', function () {
    return view('content');
});

```