

WEB DEVELOPMENT











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LAB 1: Identify and document the purpose of key directories and files in the laravel project.




KEY DIRECTORIES:

-  app
-  bootstrap
-  config
-  database
-  public
-  resources
-  routes
-  storage
-  tests
-  vendor

app



- Contains the core application code. This includes the models, controllers, and other classes that make up the application.

Sub-directories:


-  **Http** Handles the incoming web requests and responses.
-  **Models** Contains the application's data models, which represent the structure and relationships of the data in the database.
-  **Providers** Contains service providers that are used to configure and bootstrap the various components of the application.

bootstrap











- Contains files for bootstrapping the Laravel framework.

-  app.php
-  providers.php

Sub-directory:

-  **cache** Used to store framework-generated files that improve performance by reducing the need to recompile or regenerate them every time the application runs.




config

- Contains configuration files for various services and application settings.
- -  app.php
 -  auth.php
 -  cache.php
 -  database.php
 -  filesystems.php
 -  logging.php
 -  mail.php
 -  queue.php
 -  services.php
 -  session.php

database

- Contains files related to database management.

Sub-directories:

-  **factories** Houses factory classes used to generate fake data/model instances in tests.
-  **migrations** Contains migration files that define the structure of the database.
-  **seeders** Contains seed classes to populate the database with initial data.











File:



database.sqlite

SQLite database file used for local development or testing, allowing the Laravel application to store and retrieve data without needing a full database server.




public

- The entry point for web requests. It contains the index.php file, which initializes the Laravel application and serves static assets like CSS, JavaScript, and images.
- -  .htaccess
 -  about.css
 -  community.png
 -  content.css
 -  customize.png
 -  favicon.ico
 -  homepage.css
 -  index.php
 -  robots.txt
 -  setup.png

resources

- Houses all views, raw assets (CSS, JS), and language files.



Sub-directories:

-  **css** Contains CSS file.
-  **js** Contains JavaScript files.
-  **views** Contains Blade template files for rendering HTML.

routes

- Defines all routes for the application. Laravel automatically loads these files.




Files:

-  **console.php** Defines console-based routes.
-  **web.php** Contains routes for web interfaces.

storage



- Stores logs, compiled Blade templates, file-based sessions, and other files generated by the application.

Sub-directories:



-  **app** Stores application-specific files/ files uploaded by the user.
-  **framework** Stores framework-generated files, including sessions and cache.
-  **logs** Contains application logs.

tests

- Contains automated tests for the application.

-  **Pest.php**
-  **TestCase.php**


Sub-directories:

-  **Feature** Feature tests for testing HTTP requests and responses.
-  **Unit** Unit tests for testing individual components.









vendor

- Contains third-party packages and dependencies managed by Composer. Laravel itself is included here.

Key File:

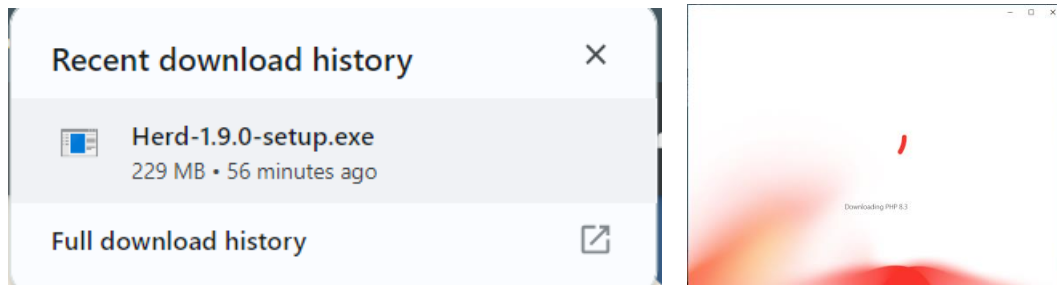
 **autoload.php** Autoloader for project dependencies.

Key Files in the Root Directory:

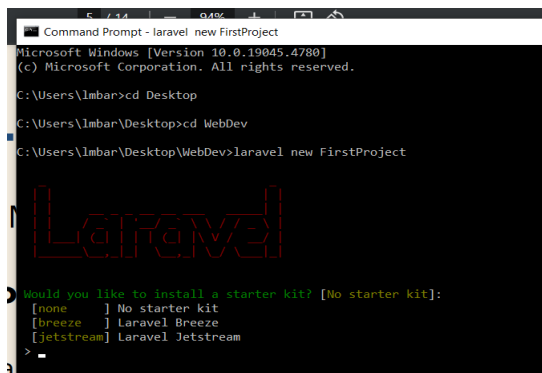
 .editorconfig	Standardizes coding styles across different editors and IDEs by specifying formatting rules.
 .env	Stores environment-specific configuration variables like database credentials and application keys.
 artisan	Provides a command-line interface for managing various aspects of a Laravel application.
 composer.json	Defines PHP dependencies and project configuration for Composer, the PHP package manager.
 composer.lock	Locks the versions of dependencies to ensure consistent installations across environments.
 package.json	Manages JavaScript dependencies and scripts for the frontend of the application
 phpunit.xml	Configures PHPUnit settings for running tests in the Laravel application
 vite.config.js	Configures Vite for building and bundling frontend assets like JavaScript and CSS.

DOCUMENTATION

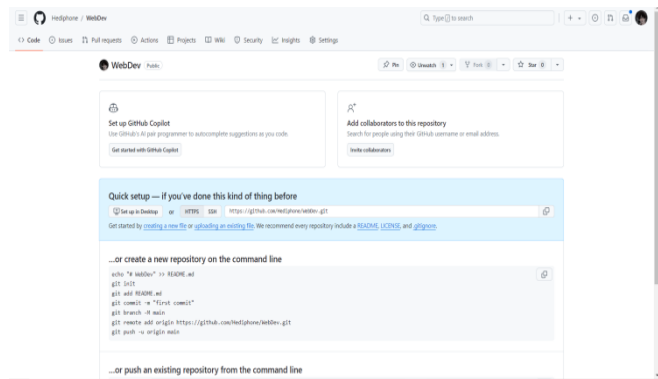
1. INSTALL LARAVEL ALONG WITH ITS DEPENDENCIES.



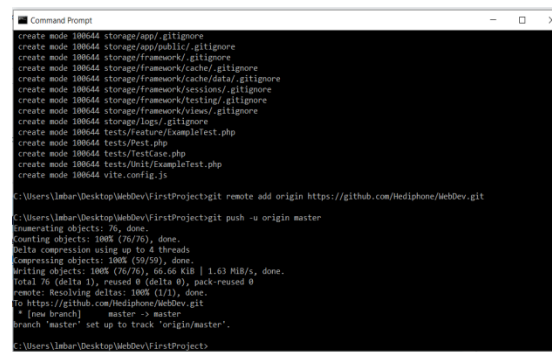
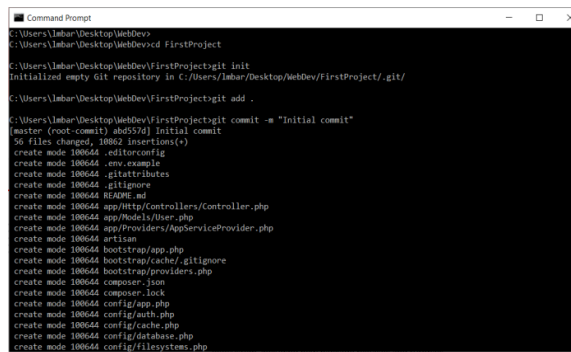
2. CREATE A LARAVEL PROJECT AND PUT IT IN A GIT REPOSITORY



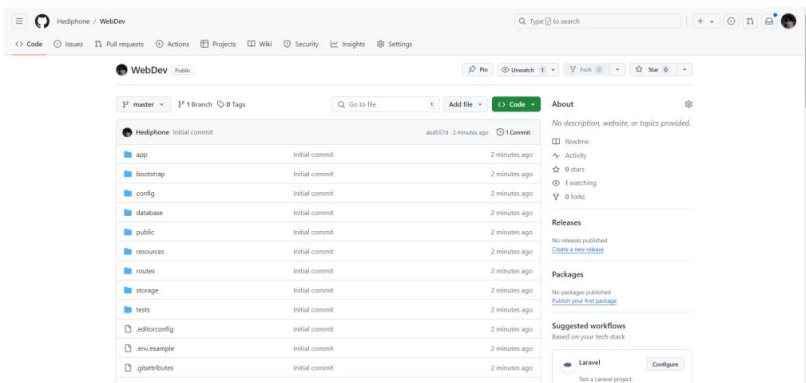
Create Laravel Project (FirstProject)



Create Repository



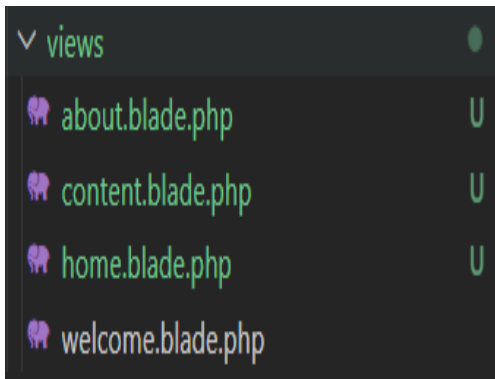
Add Project to
Git Repository



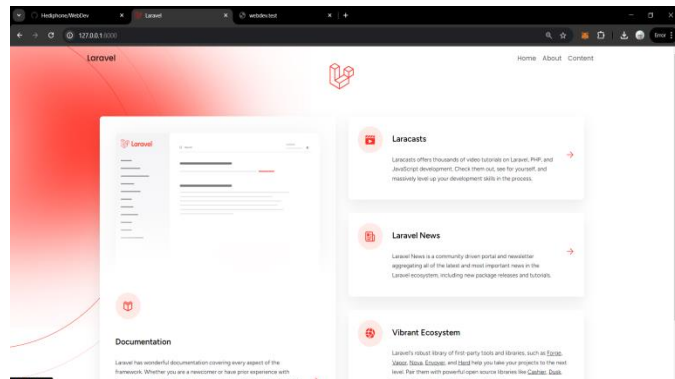
3. SET UP THE .ENV FILE TO INCLUDE DATABASE CONNECTION DETAILS

```
21
22 DB_CONNECTION=sqlite
23 DB_DATABASE=C:\Users\lmar\Desktop\WebDev\FirstProject\database\database.sqlite
24 DB_FOREIGN_KEYS=true
25 # DB_HOST=127.0.0.1
26 # DB_PORT=3306
27 # DB_DATABASE=laravel
28 # DB_USERNAME=root
29 # DB_PASSWORD=
30
```

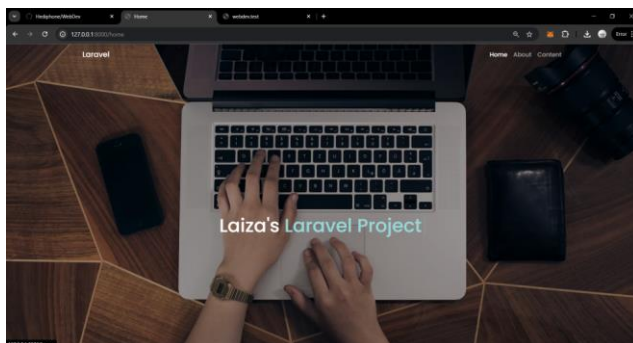
4. CREATE AT LEAST 3 VIEWS (HOMEPAGE, ABOUT, CONTENT)



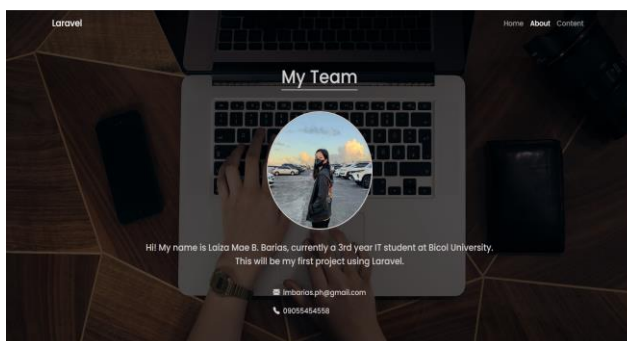
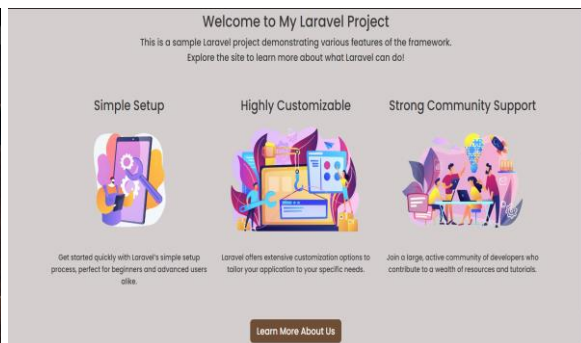
Create Views



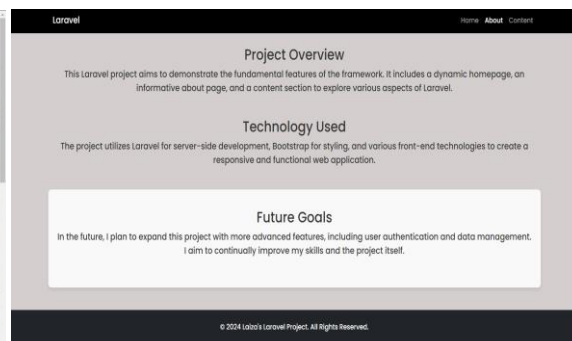
Laravel (welcome.blade.php)

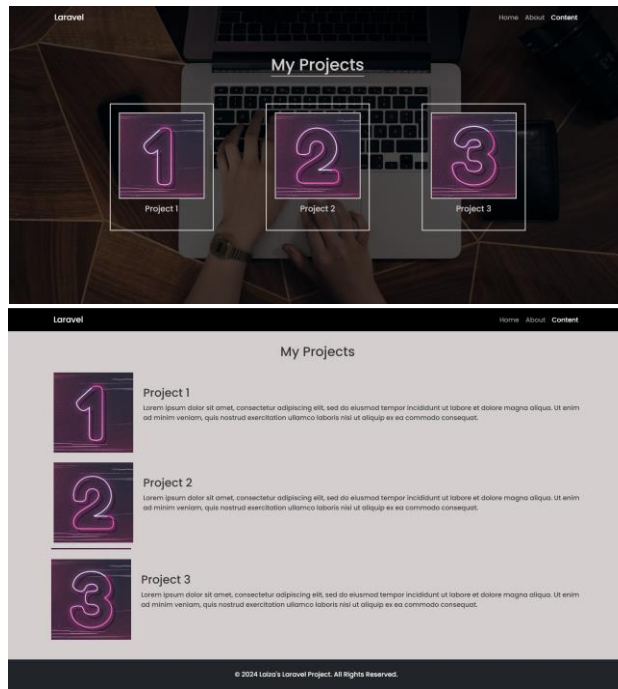


Homepage (homepage.blade.php)



About (about.blade.php)





Content (content.blade.php)

5. CREATE AND RUN ROUTES

```

web.php 1M, M X  about.blade.php 1A, U  cont
FirstProject > routes > web.php
1  <?php
2
3  use Illuminate\Support\Facades\Route;
4
5  Route::get('/', function () {
6      return view('welcome');
7  });
8
9  Route::get('/homepage', function () {
10     return view('homepage');
11 });
12
13 Route::get('/about', function () {
14     return view('about');
15 });
16
17 Route::get('/content', function () {
18     return view('content');
19 });

```