## Requirements

* Wamp / Xamp
* VS Code
* Extensions:

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## Installations:

composer create-project laravel/laravel laravell11-tutz

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## Run:

php artisan serve

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## Install Node Modules

npm install

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npm run dev

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## Folder Structure

1. **app**

* Http
  + Controllers
    - *Controller.php*
* Models
  + *User.php*
* Provides
  + *AppServiceProvider.php*

1. **bootstrap**

* *app.php* – Create an Application (routing,middleware,exceptions)
* *providers.php*

1. **config** – All configuration files
2. **database**

* factories
  + *UserFactory.php* - one factory for each model (define fields, how seed data)
* migrations
  + All migration files
* seeders

1. **public** – web accessible folder (all files here can be accessed in the browser)

* *index.php* – root/index

1. **resources**

* css
  + *app.css*
* js
  + *app.js*
  + *bootstrap.js*
* views
  + *welcome.blade.php*

1. **routes**

* *console.php*
* *web.php*

1. **storage**

* app
  + public
* framework
  + sessions
  + testings
  + views
* Logs
  + *laravel.log*

1. **test**
2. **vendor** – 3rd party packages
3. ***.env*** (config environment variables)
4. ***artisan*** – CLI
5. ***phpunit*** – unit test
6. ***vite.config.js*** – config for vite server

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## Artisan Overview

php artisan list



## Configuration Files

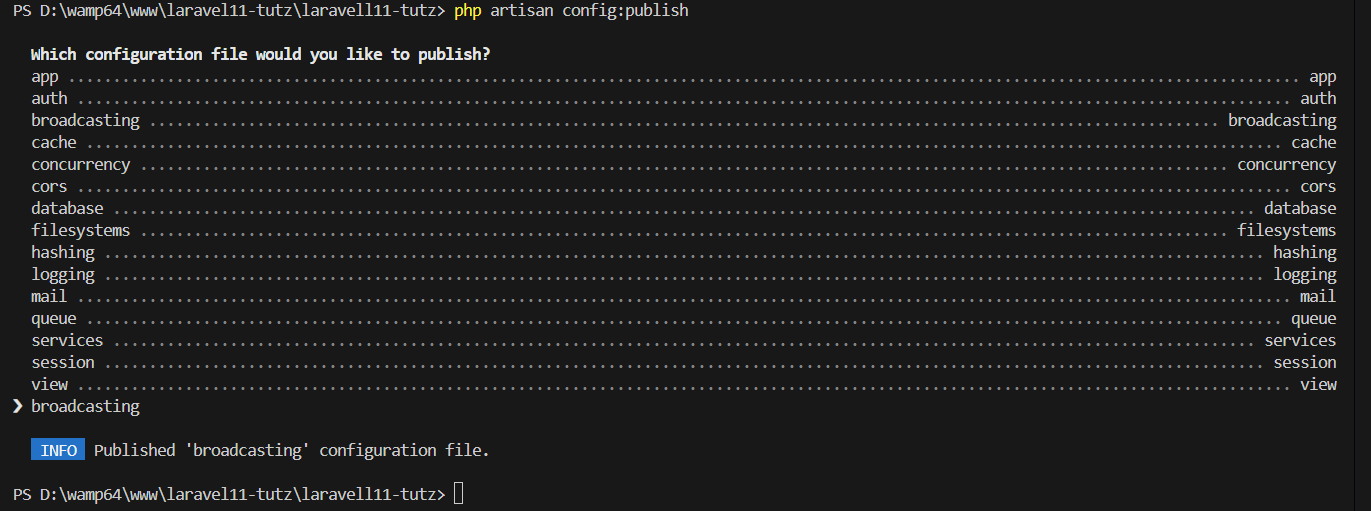
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php artisan config:publish

* provide the name of the config file you want to publish
* you can delete any config files if you don’t use it
* you can also delete any code inside config files

php artisan config:publish *broadcasting*

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## Basic Route and Controller

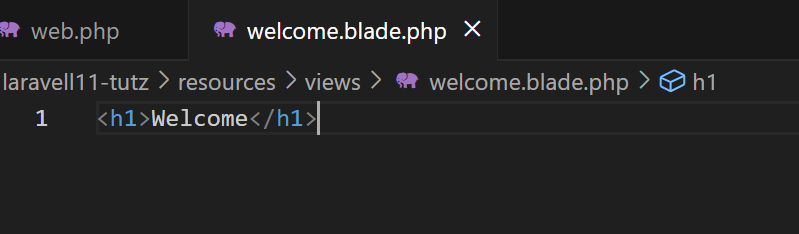
Routes/web.php

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### Create Controller

php artisan make:controller WelcomeController

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Create public function and render the view *welcome.blade.php*

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### Modify the route

- call the controller and method (*welcome*)

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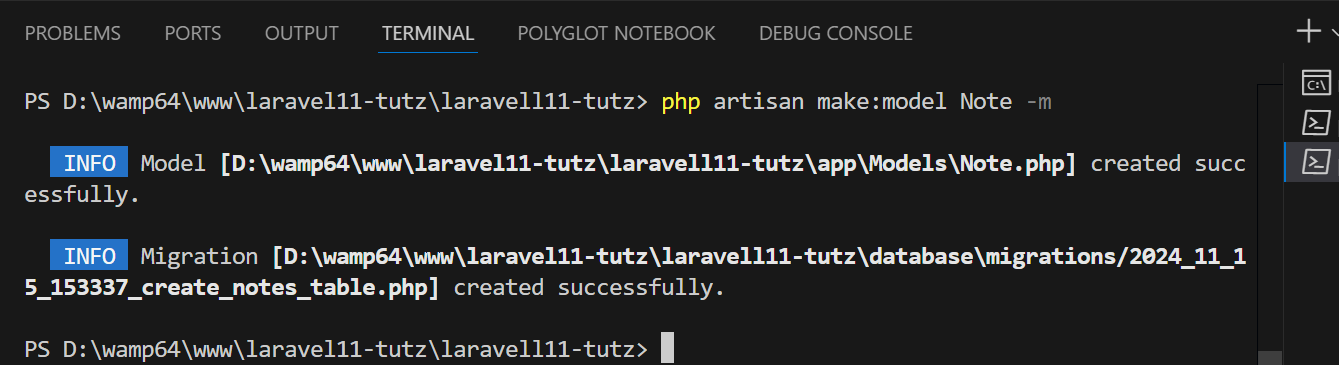
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## Eloquent Model & Migrations

php artisan make:model Note -m

Note – name of model

-m – create migration file as well



### The Model

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### Migration file

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#### Add mode columns

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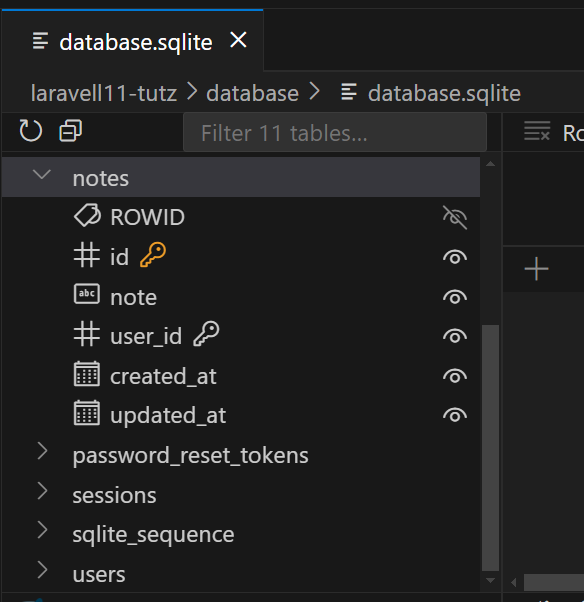
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### Migrate

php artisan migrate

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## Factory & Seed Data

### Create Factory

php artisan make:factory NoteFactory –-model=Note

or

php artisan make:factory NoteFactory

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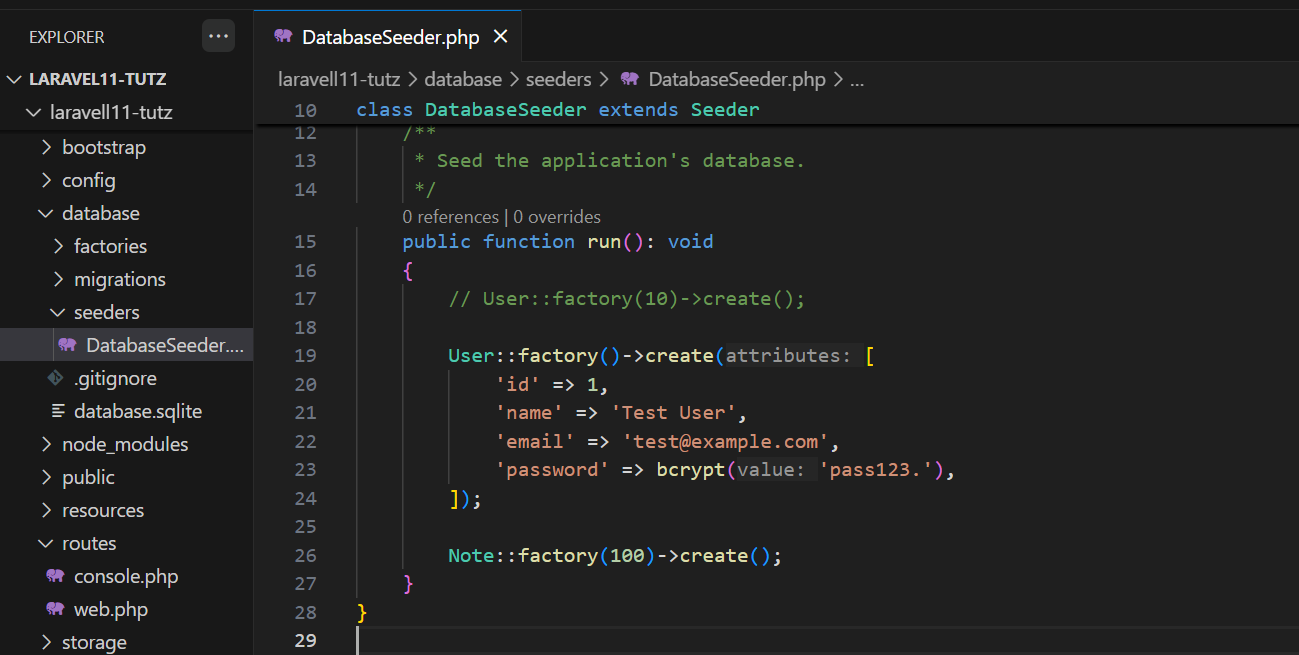
#### Modify return values

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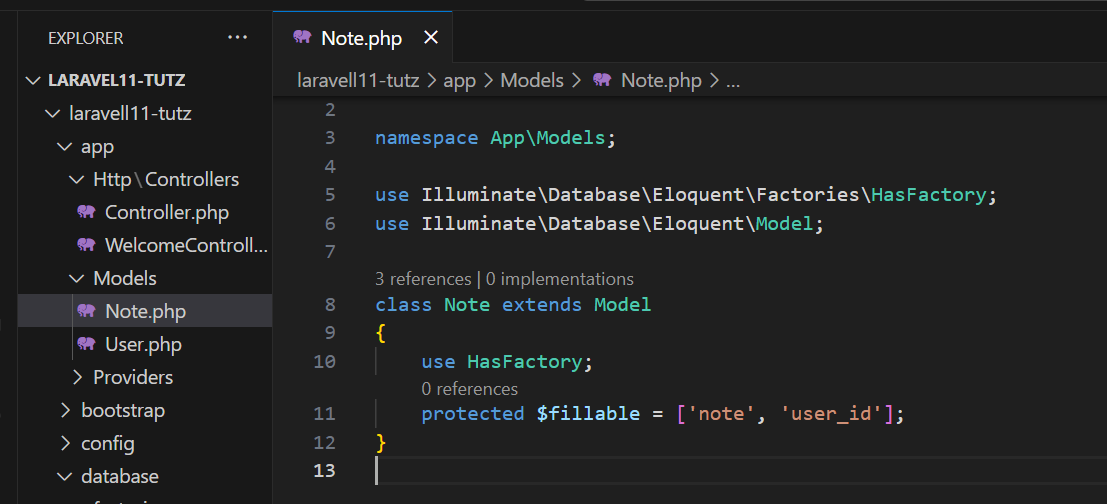
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### Open Seeders/DatabaseSeeder.php

* add seeder for user (provide id & password)
* import Note model (*use App\Models\Note;* )
* create seeder for Note ( *Note::factory(100)->create();* )



### Open Models/Note.php



### Apply Seeder

1. php artisan db:seed

* create user and 100 notes in the database

1. php artisan migrate –seed

* migrate and seed

1. php artisan migrate:refresh --seed

* rollback all migration then re-apply and execute the seeder

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## Generate Resource Controller

### Note Controller

php artisan make:controller NoteController --resource –model=Note

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#### Return text for specific functions

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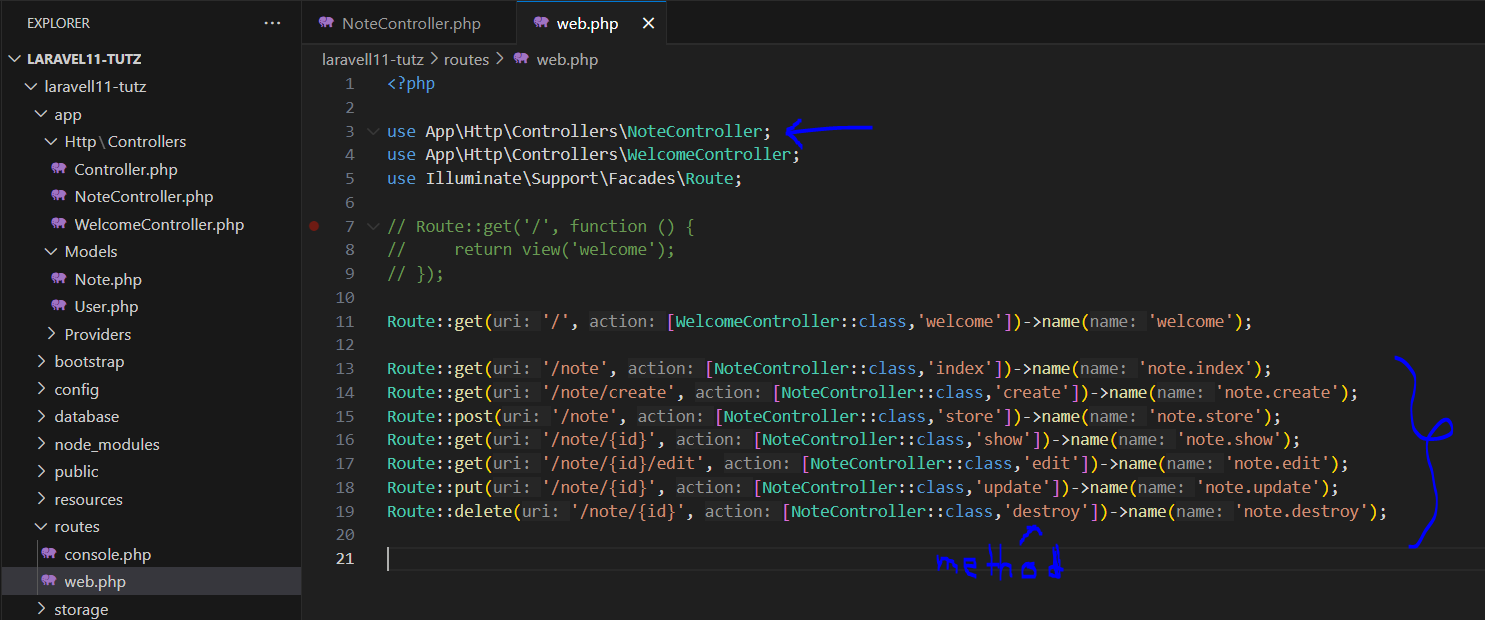
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## Resource Route



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### Shorthand Route

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## Views / Blade Files for CRUD

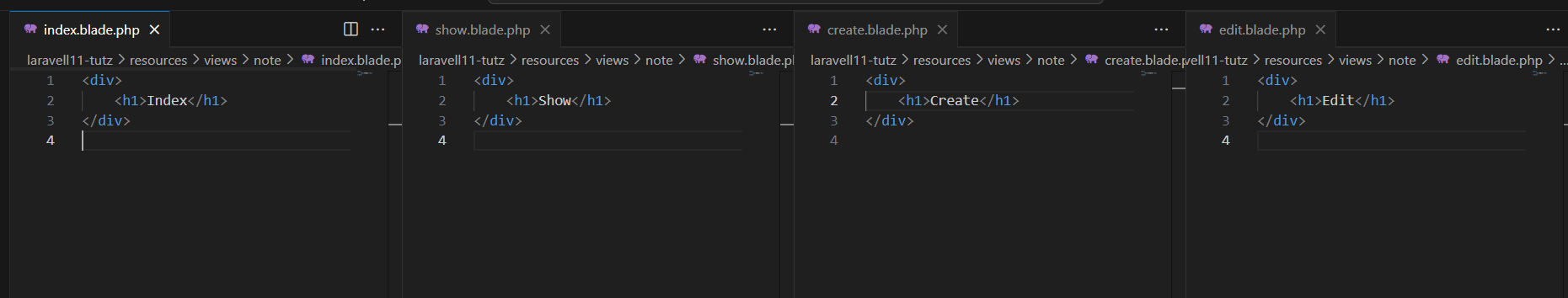
php artisan make:view note.index

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### Render the view in Controller

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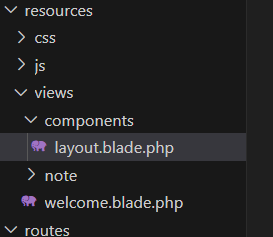
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## Generate Layout

### Create Folder inside Views

views/components/layout.blade.php



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## Get All Notes / Render Notes

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### Paginations

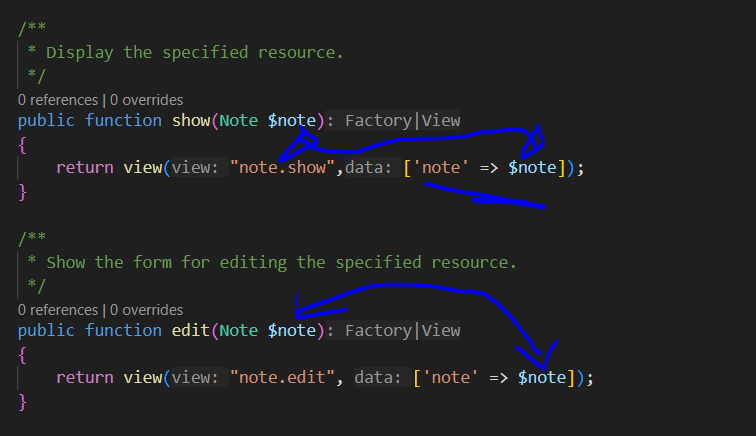
$notes = Note::query()->orderBy('created\_at','desc')->paginate();

### Pass Data into View

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Pass the $note object in Show & Edit methods



## Views/Note/Index.blade.php

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### CSS Files

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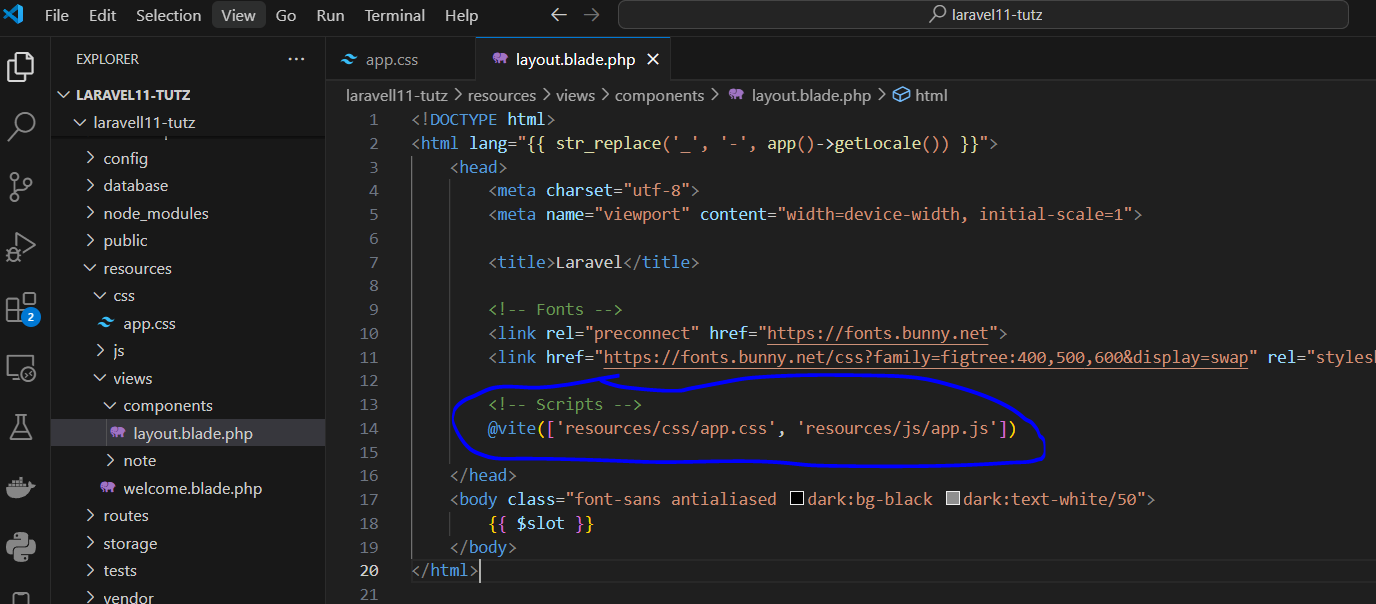
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Linked the css in Layout using Vite Server

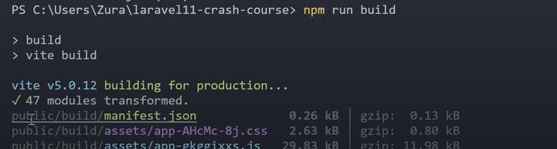
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To build the css into the public folder, run:

npm run build



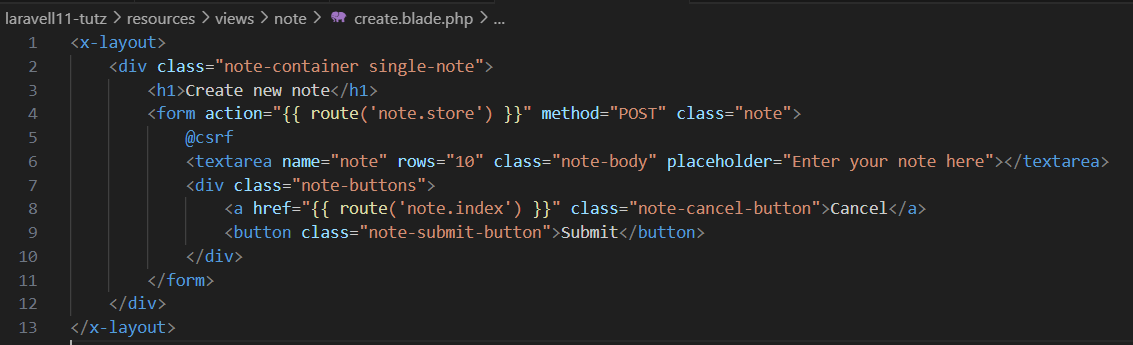
npm run dev

- using vite server for css from resource folder

npm run build

- for production (the css build into public folder)

## Views/Note/create.blade.php



## Views/Note/show.blade.php

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## Views/Note/edit.blade.php

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## Create New Note

### NoteController(store)

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### Models/Note.php

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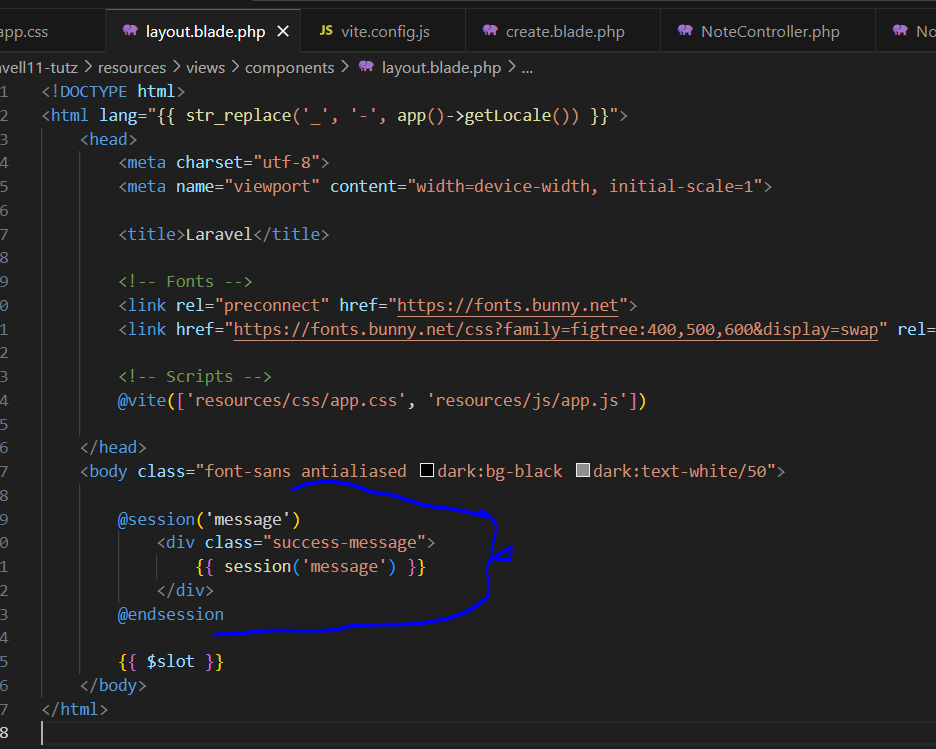
Add *@csrf* inside your Create Views Form

### @csrf

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Display Message



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## Update Note

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### NoteController(update)

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Test

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## Delete Note

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### NoteController(destroy)

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## Paginations

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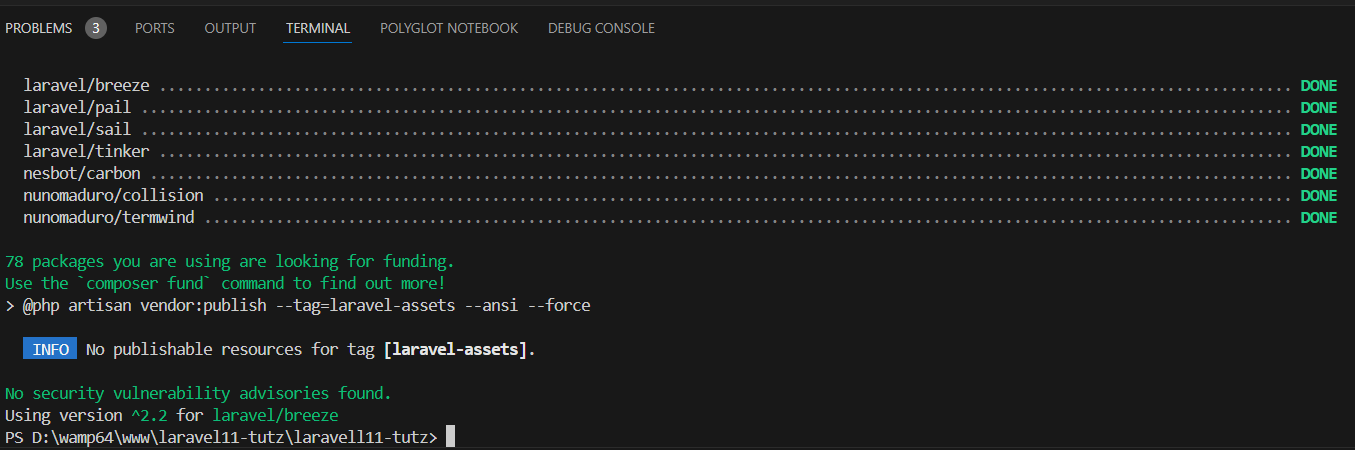
## Authentication

Notes: please backup your *resources/css/app.css* & *routes/web.php* first.

### Breeze

Command

composer require Laravel/breeze –dev

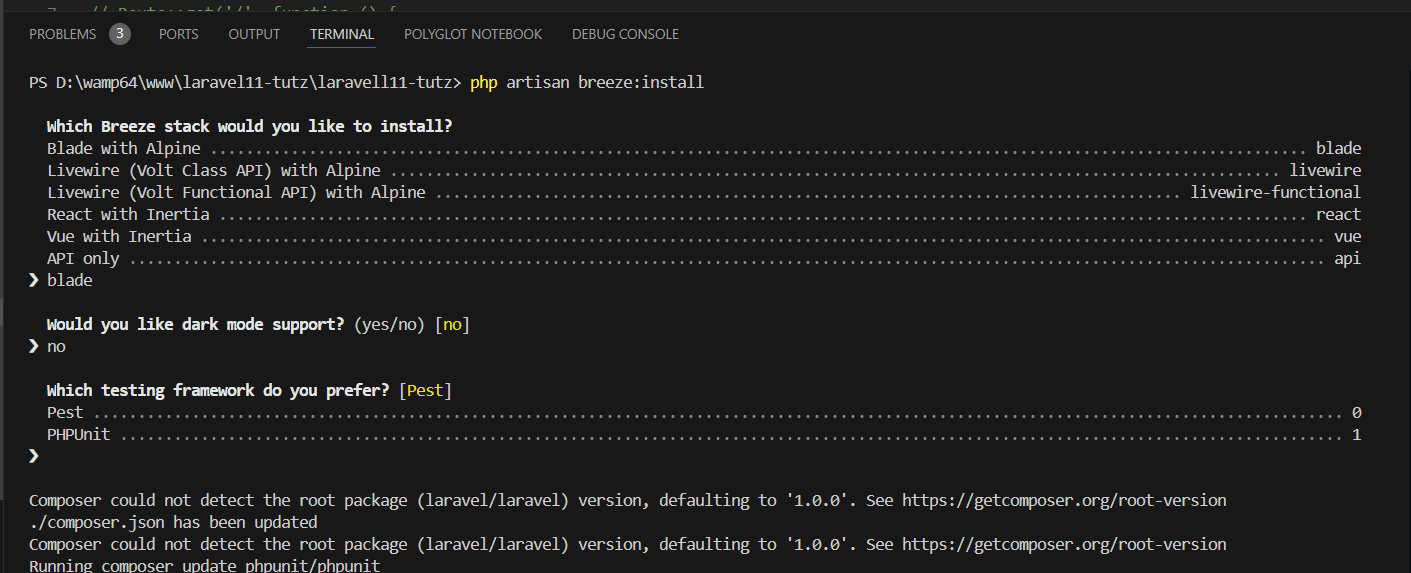


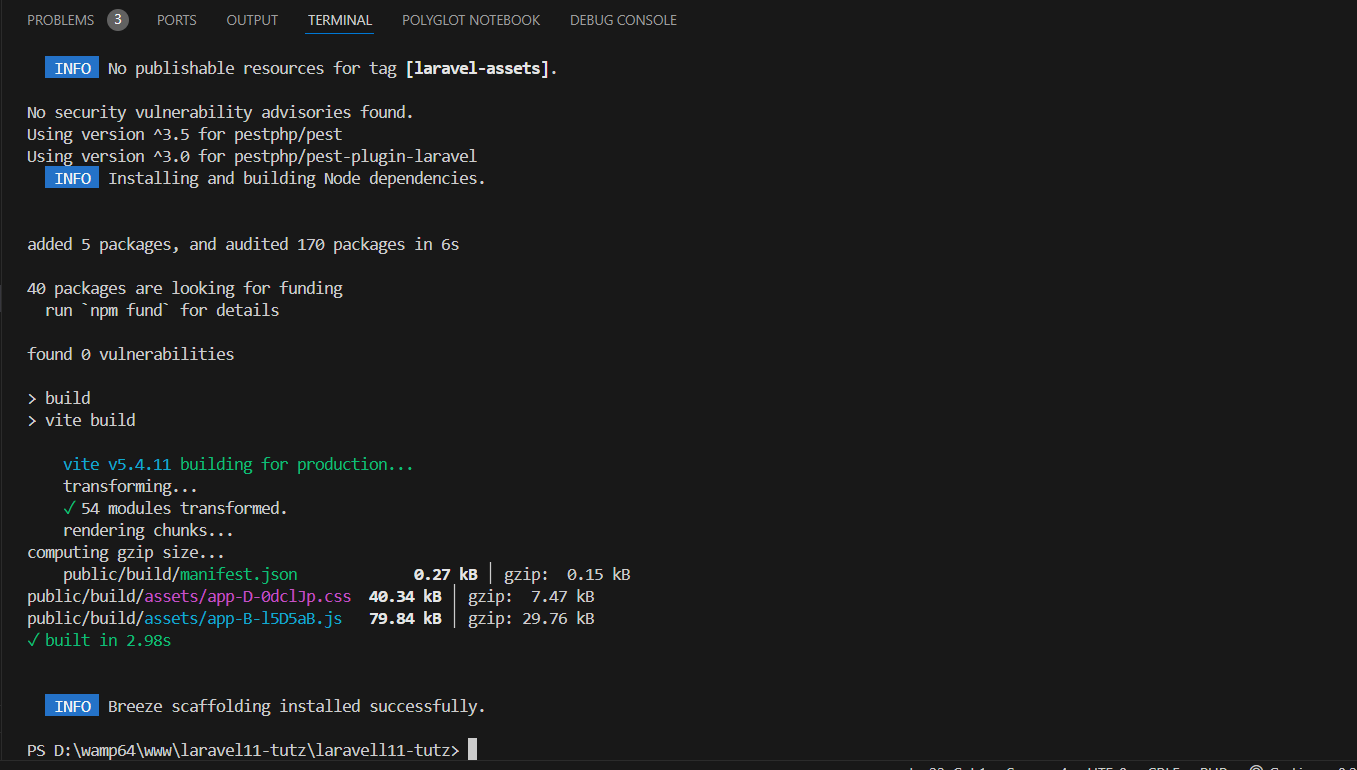
php artisan breeze:install

> blade

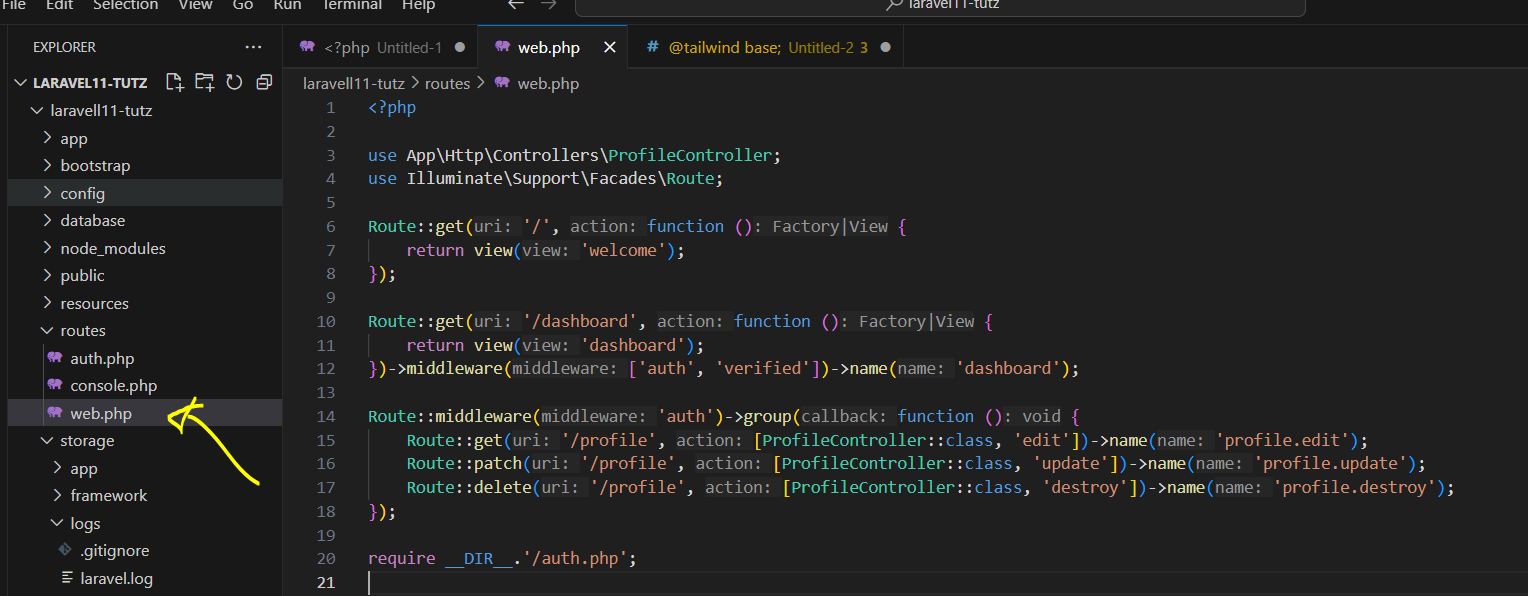
> no

> enter





### Route



### Controller

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### User Model

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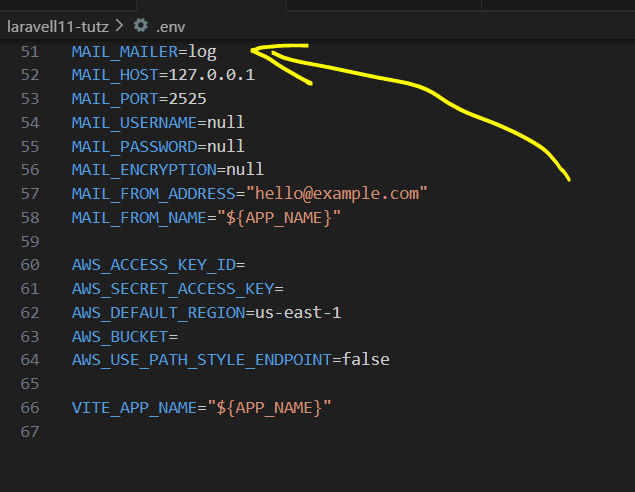
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## Recover the Routes & CSS

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### Use breeze dashboard layout

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## Modify Note Controller for User

- only the owner can see his/her notes

- only the owner can edit/delete his/her notes

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## Custom 403 Page

resources/views/errors/403.blade.php

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A close-up of a computer screen

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## References

<https://youtu.be/eUNWzJUvkCA>

<https://github.com/thecodeholic/laravel11-crash-course>