**LARAVEL MVC CRUD**

www. Req.

Route

DB

Controller

View

Model

GUI

Data

**Index**

* Installation php, laravel composer, project etc
* Database creation on mysql and edit on .env file and migrate
* Create tables with filed and data type
* **Model** to make table entities fillable
* **Controller** for different functions
* **View** pages for users index, create,edit,… (Ex. index.blade.php)
* **Route** to jump to view page need to create route web.php
* **Route** and Controller have functions to create, store, update, destroy and redirect
* **Insert**  need post method in blade.php and in route
* **Validation** before insert
* **Model**  name as table and use create function in controller which insert in DB
* **Show** data
* **Edit**
* **Delete/destroy**
* **Navigation using route**

PHP and Composer installed on your local machine,

<https://laravel.com/docs/12.x> visit site and copy create command

Composer create-project laravel/laravel crud1

Files and directories for laravel created and then type give below

htdoc>dir>php artisan serve

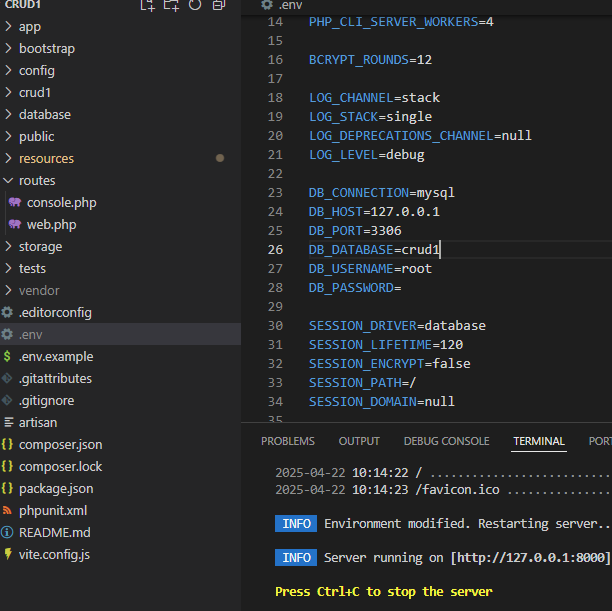
(start php xamp controlpanel start apache; Mysql, if apache not start then goto>http.config > search listen 80 replace 8000)

Chrome-> 127.0.0.1:8000 -> welcome.blade.php

Database

Create database manually

Goto>.env file>change database connection = mysql; database=name

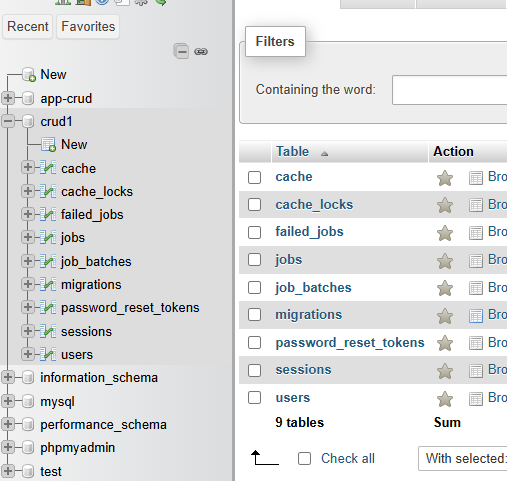


To check connection

>php artisan migrate



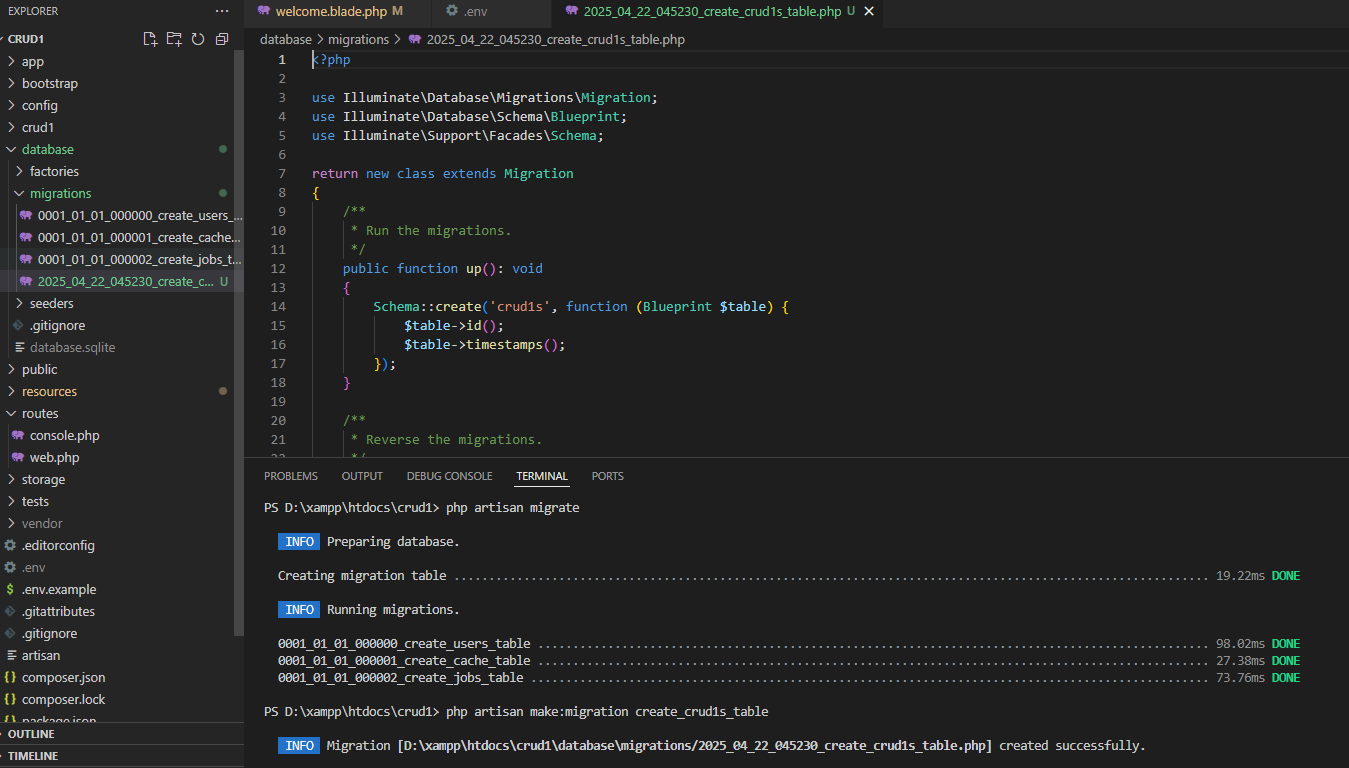
Default tables created



**Create Table**

Migration creation-> to create table

>php artisan make:migration create\_names\_table



**Create column in table** -> database>migrations> 2025\_04\_22\_045230\_create\_crud1s\_table.php

 public function up(): void

    {

        Schema::create('crud1s', function (Blueprint $table) {

            $table->id();

            $table->string('name');

            $table->string('dob');

            $table->string('address');

            $table->string('email');

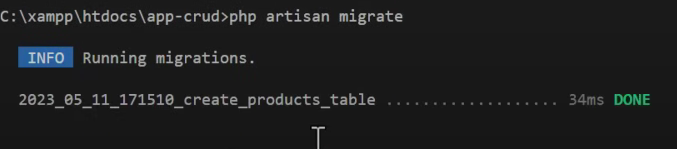
            $table->string('mobile');

            $table->timestamps();

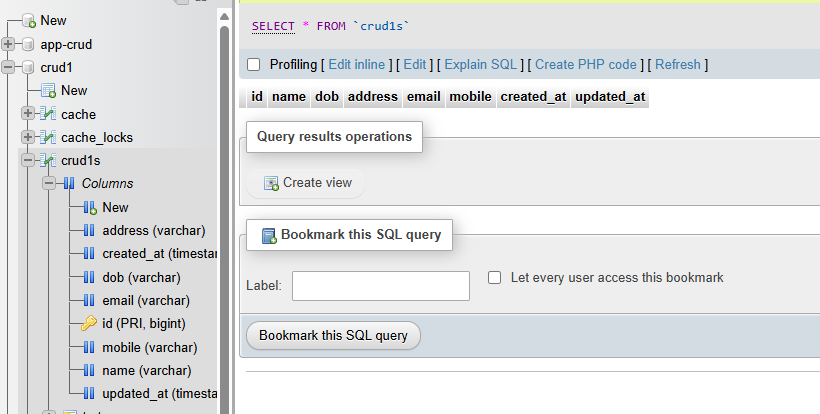
        });

Search on laravel site> migration > <https://laravel.com/docs/12.x/migrations#main-content>

Available data types for more

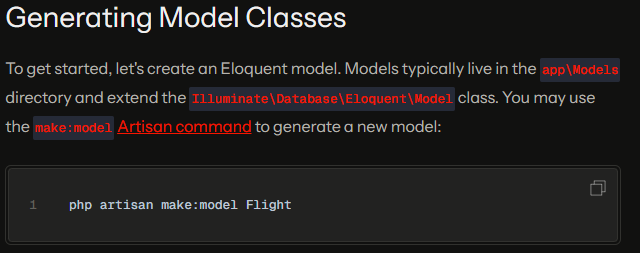


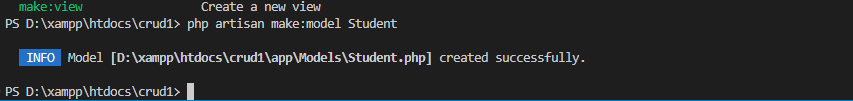
Php artisan migrate ( to create table)



**Model**

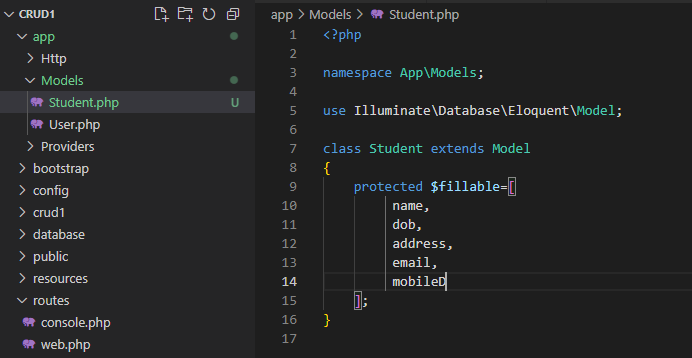
<https://laravel.com/docs/12.x/eloquent>





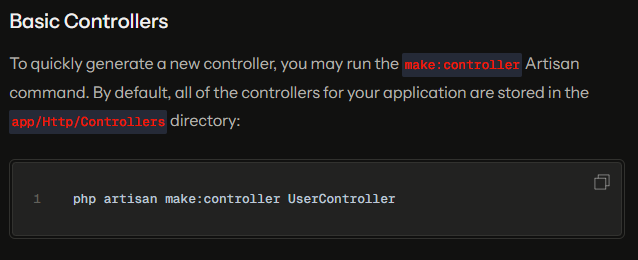
App>Models> Students

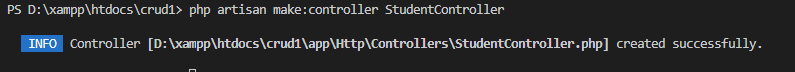
Put column name to fill



**Controller**

Search controller in doc.





App>http>controller>StudnetController

**Now need to create view**

Create view>mkdir students folder

App>resources>View>students> index.blade.php create index.blade.php file

Now create Route to view/index goto App>routes>web.php



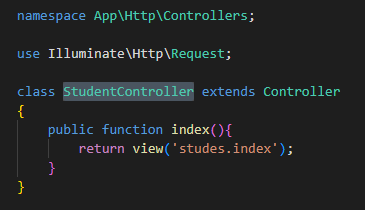
url text=> ‘/student’

controller class=> [StudentController::class

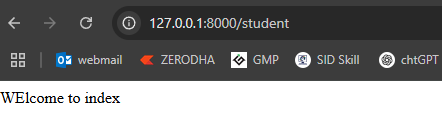
function =>

any name ->name()

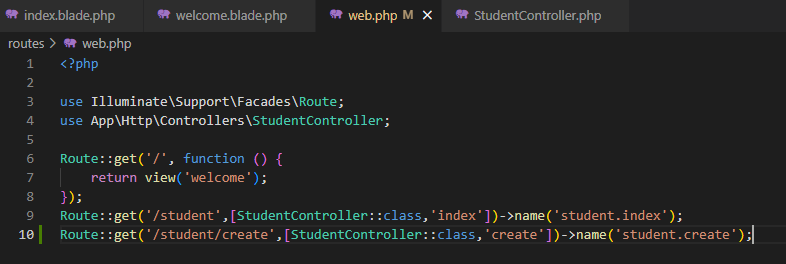
Now goto controller and create a function to route



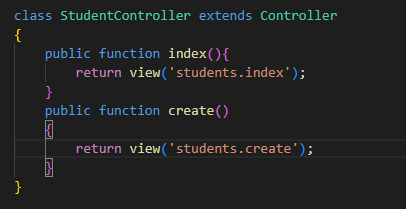
In web.php> use App\Http\Controllers\StudentController (import controller to web.php to show index)



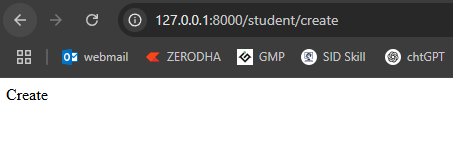
**Create page insert =>** create route first

****

Create function in controller

****

Then view>student>create create.blade.php

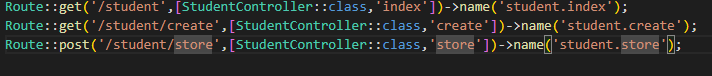


**Insert**

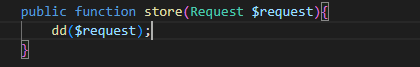
Registration form

To post data to mysql need first rout

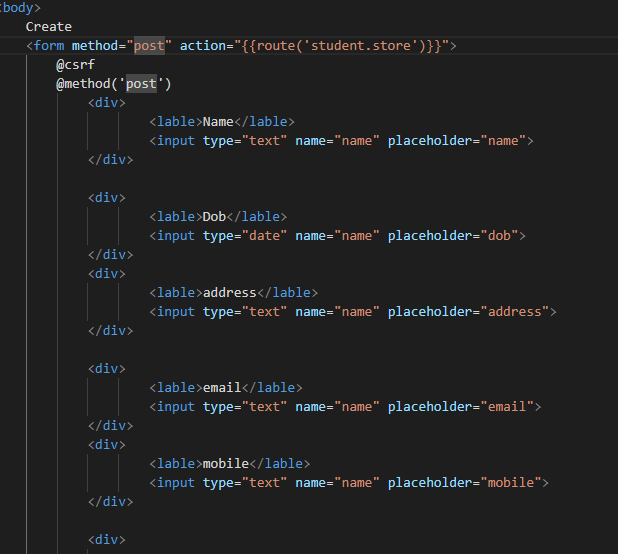
In web.php route



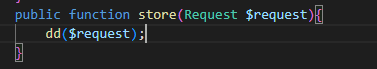
In controller StudentController.php create function to check data post

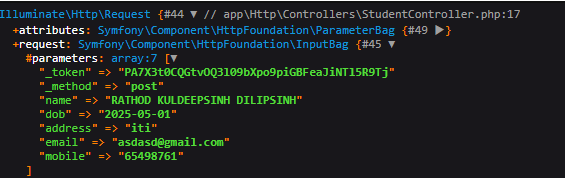


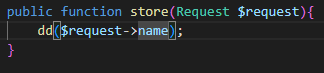
Then in create.blade.php give route to post data



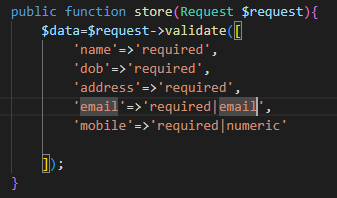
Function to check request data





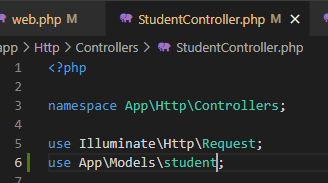
 only for name

Now validation search validate in doc. Find rules

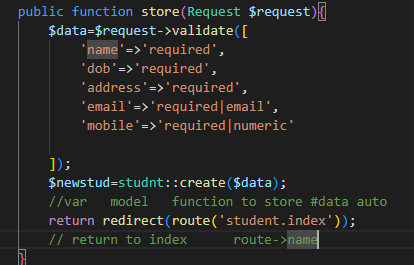


R-> C->M-> DB

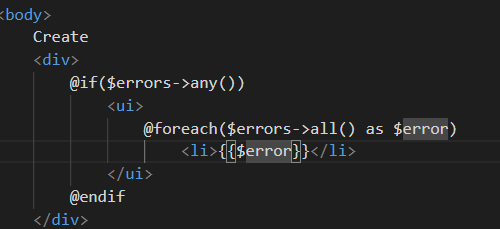
Now import model already created in controller model name must be as table name



In controller



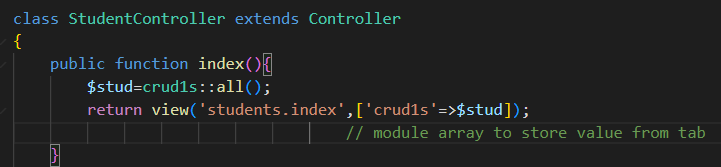
If any error put in html given below to check error



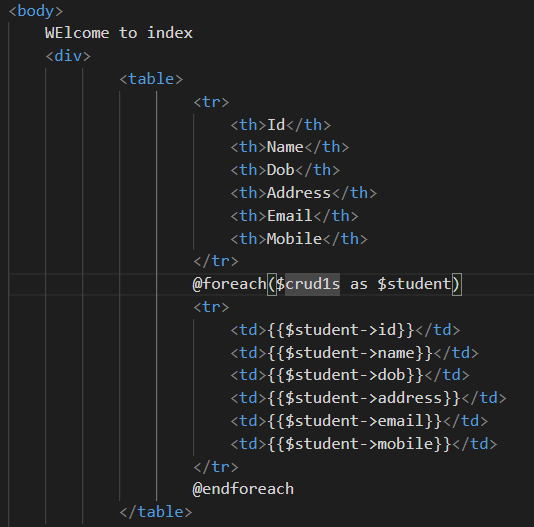
**Show data to user from Database**

**Select**

Controller >index function>



Index.blade.php

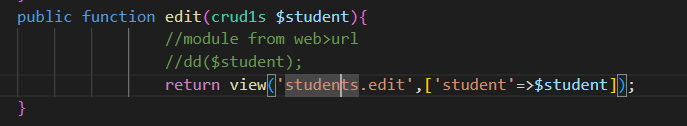


**Show for EDIT**

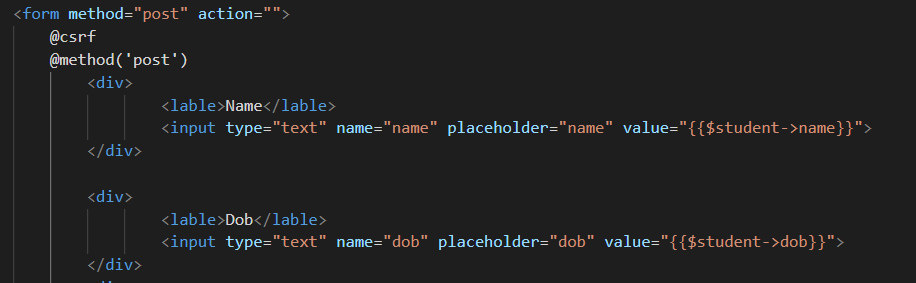
Route first to click link



Controller function



Edit.blade.php like create to show data



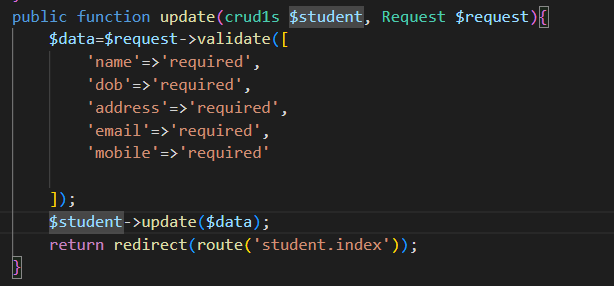
**Update using PUT method**

Show data update

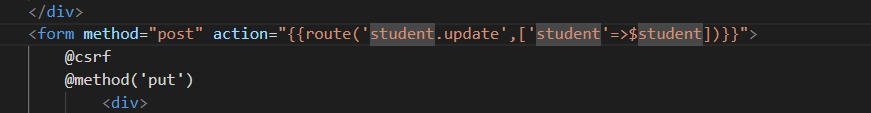
To update record use put method in route



In controller create update function



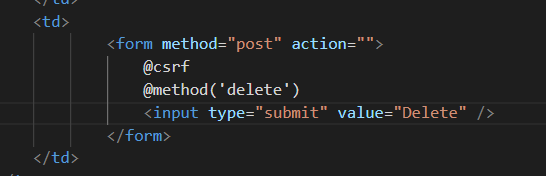
In edit.blade.php add action like this



Done

**Delete**

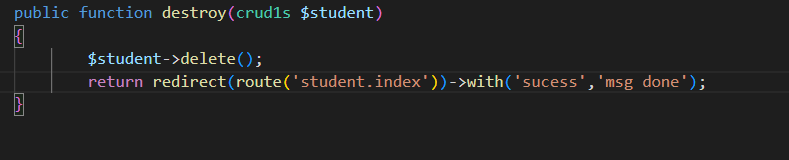
Index.blade.php

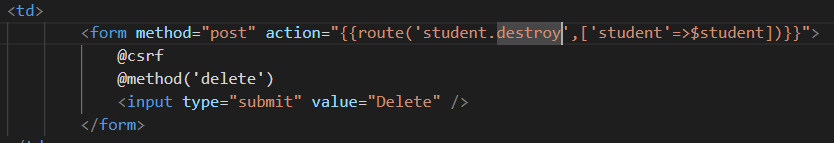


Web.php



Create destroy function in controller





**Navigation**

