

MAWLANA BHASHANI SCIENCE AND TECHNOLOGY
UNIVERSITY



DEPARTMENT OF ICT

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Laravel CRUD Application

1.Explain something about Laravel CRUD ?

Ans : Laravel is a PHP-based web framework with an expressive, elegant syntax. It is termed the framework for web artisan. Laravel is model after the MVC (Model View Controller) architecture and revolves around **CRUD** (Create, Retrieve, Update, Delete) operations.

2.What are steps for making Laravel CRUD ?

Ans: Steps for making Laravel CRUD :

- i. Step 01 : Install Laravel
- ii. Step 02 : Database Configuration
- iii. Step 03 : Make model and migration
- iv. Step 04 : Make controller
- v. Step 05 : Define routes
- vi. Step 06 : Make views

3. Explain the steps for making CRUD ?

Ans : The steps are described below :

Step 01 : Install Laravel :

First install a fresh new laravel 8 project. To do that, open our command prompt and run the artisan command below. This command will install and create a laravel 8 project for us.

```
composer create-project laravel/laravel CreditFeePaymentSystem 8.0
```

NB : Replace the laravel8-project with your project name. According to this name, a folder will create in your project directory.

If you want to download a project mentioning with laravel version , then you run the following command :

```
composer create-project laravel/laravel=4.1.27 your-project-name --prefer-dist
```

Step 02 : Database configuration :

Now create a database in MySQL via phpMyAdmin or other MySQL clients which you. Now open .env file from Laravel 8 project and update the database details.

```
DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=CreditFeePaymentSystem
DB_USERNAME=root
DB_PASSWORD=
```

Here [CreditFeePaymentSystem](#) is our database name. If your database name is different then update it and save. Our project creation is finished and the database is ready to use.

Step 03 : Make model & migration :

We will make a student list. So that we need a student table in our database. Here we don't create the table manually. Here we use laravel migration. When we will run our migration that will make the table for us. Run the command in your terminal .

```
php artisan make:model Student -m
```

This command will make a [Student.php](#) model class file into the [app/Models](#) directory of our laravel 8 project and a migration file will be created into the database migrations directory.

Now open the migration file from [database/migrations](#) directory of your laravel 8 project and replace the code with below:

```
public function up()
{
    Schema::create('students', function (Blueprint $table) {
        $table->id();
        $table->string('name');
        $table->float('age')->nullable();
        $table->string('contact');
        $table->timestamps();
    });
}
```

Our migration file is ready. Now run the migration with this command. This command will create our tables in our database.

```
php artisan migrate
```

Step 04 : Make controller :

In our controller, all our business logic will be coded to make laravel 8 CRUD system. To make the controller, run the command :

```
php artisan make:controller StudentController
```

By this command, a file will be created in [app/Http/Controllers](#) name with StudentController.php .

Step 05 : Define routes :

Open the [web.php](#) file from routes folder and write the routes like below :

```
Route::resource('contacts', 'App\Http\Controllers\StudentController');
```

or you can also define like these :

```
use App\Http\Controllers\StudentController;
Route::resource('students', StudentController::class);
```

Here we are using the Laravel resource route which will make all our required routes that are needed for laravel 8 CRUD app.

Step 06: Make views :

Here is the final part, we need some forms and HTML markup to show our records and data insert,update. Let's make those views. Create a folder inside views folder name with contacts so that all views are related to Student CRUD will be in the same folder and organized.

We need the [Laravel H package](#) for making HTML form easily.Install it by the composer.

```
composer require haruncpi/laravel-h
```

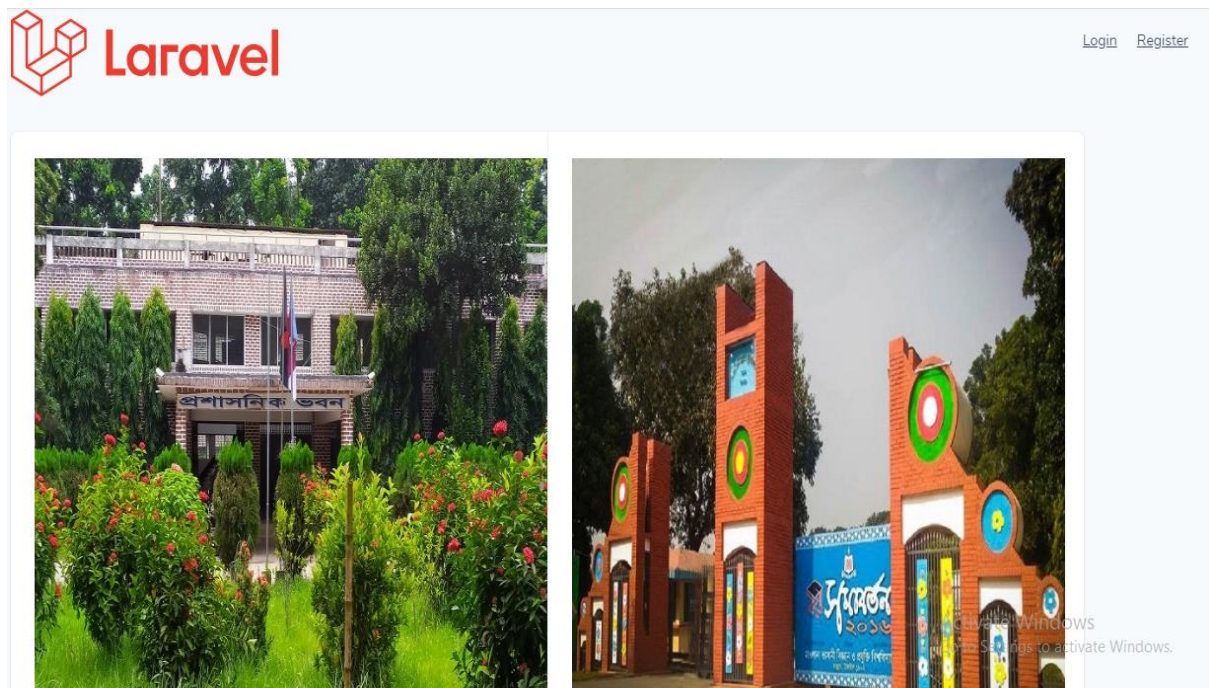
Create an [index.blade.php](#) to show all our records from the database.

Create a [create.blade.php](#) file for insert data.

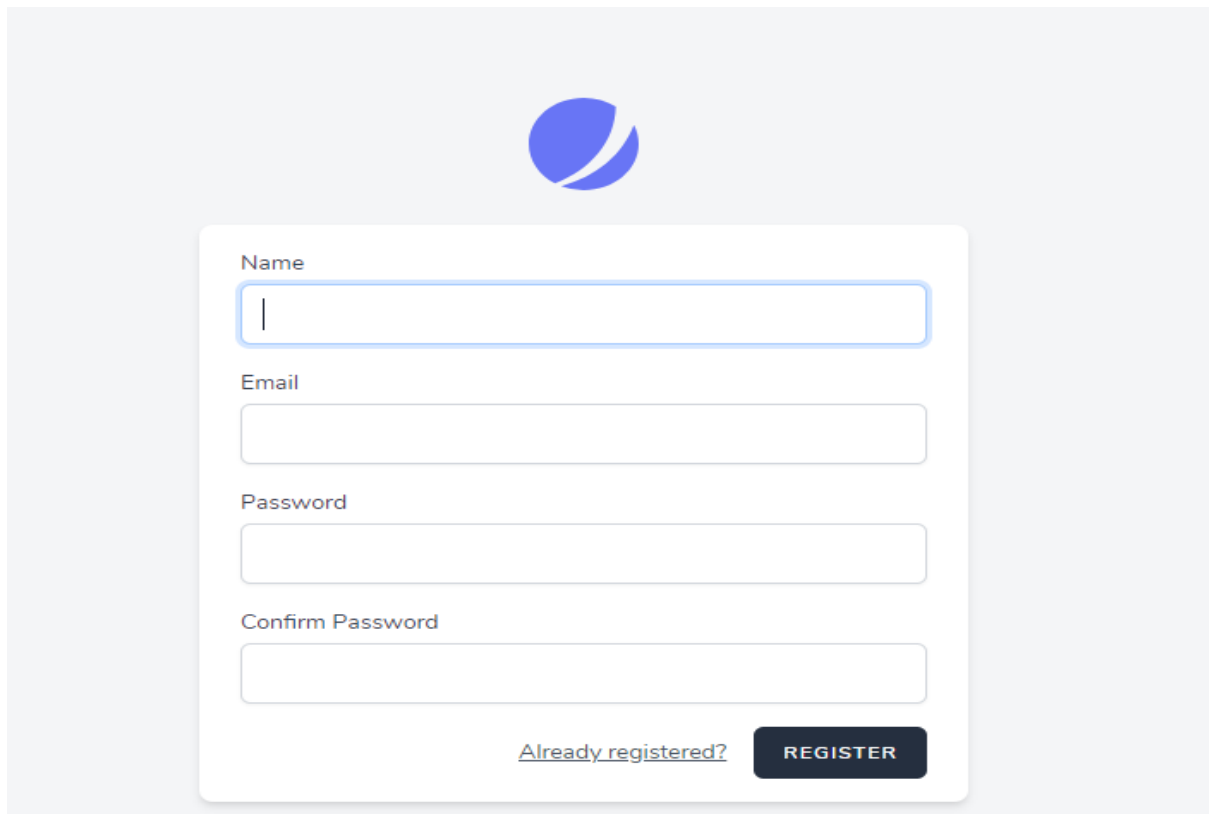
Create an [edit.blade.php](#) file to edit data.

Now our laravel 8 CRUD app is ready to use. To test the Laravel 8 CRUD app operation first, run the server by [php artisan serve](#) command and then open your browser and browse <http://127.0.0.1:8000/students>.


Our project Homepage :



Then when any student click Register, he will see the below page :



The registration form is centered on a light gray background. At the top is a blue circular logo with a white swoosh. The form itself is a white rounded rectangle with a subtle shadow. It contains four input fields: 'Name' (with a vertical cursor), 'Email', 'Password', and 'Confirm Password'. At the bottom right of the form is a dark blue 'REGISTER' button. To the left of the button is a link that says 'Already registered?'.



Name

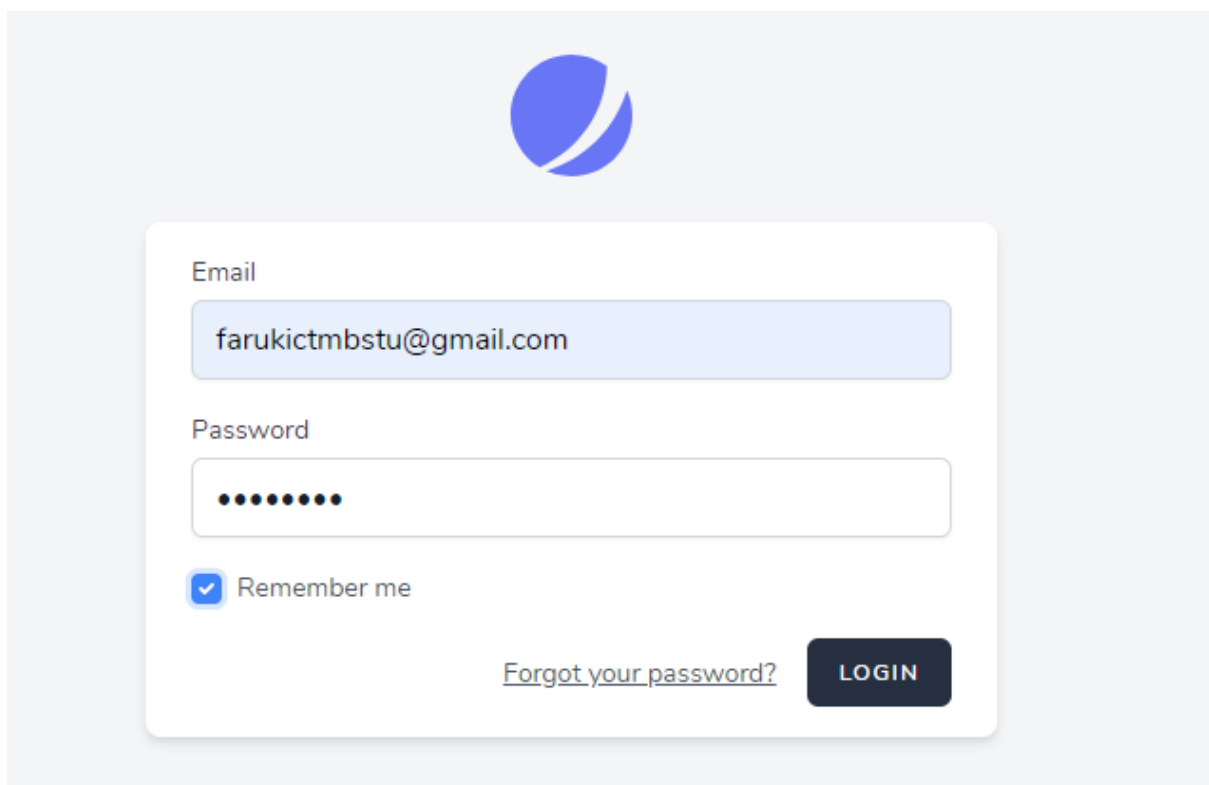
Email

Password


Confirm Password

[Already registered?](#) **REGISTER**

After registration, then you log in :



The login form is centered on a light gray background. At the top is the same blue circular logo with a white swoosh. The form is a white rounded rectangle with a subtle shadow. It contains two input fields: 'Email' (filled with 'farukictmbstu@gmail.com') and 'Password' (filled with ten dots). Below the password field is a 'Remember me' checkbox, which is checked. At the bottom right is a dark blue 'LOGIN' button. To the left of the button is a link that says 'Forgot your password?'.



Email

farukictmbstu@gmail.com

Password

☒ Remember me

[Forgot your password?](#) **LOGIN**

Then you see the Dashboard. In that page, you click the course button and you see the students list :



Welcome to Online Credit Fee Payment System

Students

Notices

Services

Contact

Credit Fee Payment System

Our semester final exam registration process is very analog.

So we want to digitalized this process by making this web application.

If he does not login before , so he should give his basic information . Then since he logged in ,so he find a semester exam registration form and he should fill up this registration form.Then the web application automatically calculates his required credit fee , tution fee , medical fee , transport fee , lab fee .

After fill up this form , this web application offered the student to pay all those fees by bikash or dbbl payment option .

When the payment is completed , then this web application automatically send a

Activate Windows
Go to Settings to activate Windows.

After click students button, you see the students list .There you edit,create and delete students.

Add new Student

Name

Age

Contact

Existing Student

#	Name	Age	Contact	Action
1	Faruk	21	01558954586	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
2	Ruhan	23	0178837484	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
3	Md Hafiz	22	01898664356	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
4	Noyon Ali	23	01324554567	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
5	Md. Rafatul Haque	22	017638989786	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
6	md Bashar	22	01324554567	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

Activate Windows
Go to Settings to activate Windows.

Conclusion :

In this lab, we learned the steps for making laravel CRUD and how laravel implements it. We learned the details of CRUD and how to implement it in a real world application.