

# Foreign key CRUD Using Model in LARAVEL

## MIGRATION Page –

Command :

php artisan make:migration create\_tablename\_table

php artisan migrate

php artisan migrate:refresh

## class table Page –

```
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

return new class extends Migration
{
    /**
     * Run the migrations.
     */
    public function up(): void
    {
        Schema::create('class_data', function (Blueprint $table) {
            $table->cid();
            $table->string('class',50);
            $table->timestamps();
        });
    }

    /**
     * Reverse the migrations.
     */
    public function down(): void
    {
        Schema::dropIfExists('class_data');
    }
};
```

## student table Page –

```
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

return new class extends Migration
{
```

```

/**
 * Run the migrations.
 */

public function up(): void
{
    Schema::create('student_data', function (Blueprint $table) {
        $table->integer('id');
        $table->string('fname',20);
        $table->string('lname',20);
        $table->string('email',50);
        $table->string('password',20);
        $table->string('confpassword',20);
        $table->unsignedBigInteger('class');
        $table->foreign('class')->references('id')->on('class_data')->onUpdate('cascade')->onDelete('cascade');
        $table->string('gender',10);
        $table->text('address');
        $table->string('phone');
        $table->timestamps();
    });
}

/**
 * Reverse the migrations.
 */
public function down(): void
{
    Schema::dropIfExists('student_data');
}
};

```

### Controller Page –

Command:

php artisan make:controller StudentController

```

<?php

namespace App\Http\Controllers;

use App\Models\classss;
use App\Models\Student;
use Illuminate\Http\Request;

class StudentController extends Controller
{
    public function addstudentform()
    {
        $student = classss::get();
        return view('add',compact('student'));
    }
}

```

```

}
public function addStudent(Request $req)
{
    $req->validate([
        'fname'=>'required',
        'lname'=>'required',
        'email'=>'required|email',
        'password'=>'required|min:8',
        'confpassword'=>'required|same:password|min:8',
        'gender'=>'required',
        'address'=>'required',
        'class'=>'required',
        'phone'=>'required|numeric|digits:10',

    ]);
    $student = Student::create(
        [

            'id'=>rand(111,999999999),
            'fname'=>$req->fname,
            'lname'=>$req->lname,
            'email'=>$req->email,
            'password'=>$req->password,
            'confpassword'=>$req->confpassword,
            'gender'=>$req->gender,
            'address'=>$req->address,
            'class'=>$req->class,
            'phone'=>$req->phone,

        ]
    );

    if ($student)
    {
        return redirect()->route('home')->with('success', 'Student Added Successfully');
    }

}

public function ShowStudent()
{
    $student = Student::join('class_data','student_data.class','=','class_data.cid')->get();
    return view('index',compact('student'));
}

public function deleteStudent(string $id)
{
    $student = Student::find($id)->delete();
    if ($student)
    {

```

```

        return redirect()->route('home')->with('denger', 'Student Deleted
Successfully');
    }

}

public function singleStudent(string $id)
{
    $student = Student::join('class_data','student_data.class','=','class_data.cid')->find($id);
    return view('view',compact('student'));
}

public function updatePage(string $id)
{
    $student = Student::find($id);
    $student1 = classs::get();
    return view('update',compact('student','student1'));
}

public function updateStudent(Request $req , $id)
{
    $req->validate([
        'fname'=>'required',
        'lname'=>'required',
        'email'=>'required|email',
        'password'=>'required|min:8',
        'confpassword'=>'required|min:8',
        'gender'=>'required',
        'address'=>'required',
        'class'=>'required',
        'phone'=>'required|numeric|digits:10',

    ]);

    $student = Student::find($id)
        ->update(
            [
                'fname'=>$req->fname,
                'lname'=>$req->lname,
                'email'=>$req->email,
                'password'=>$req->password,
                'confpassword'=>$req->confpassword,
                'gender'=>$req->gender,
                'address'=>$req->address,
                'class'=>$req->class,
                'phone'=>$req->phone,

            ]
        );
}

```

```

        if ($student)
        {
            return redirect()->route('home')->with('success', 'Student Updated
Successfully');
        }
    }
}

```

### Model Page –

```

<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class Student extends Model
{
    use HasFactory;

    protected $table = 'Student_data';

    protected $fillable = [
        'id',
        'fname',
        'lname',
        'email',
        'password',
        'confpassword',
        'class',
        'gender',
        'address',
        'phone',
    ];
}

```

### route Page –

```

<?php

use App\Http\Controllers\StudentController;
use Illuminate\Support\Facades\Route;

/*

```

```

| -----
| Web Routes
| -----
|
| Here is where you can register web routes for your application. These
| routes are loaded by the RouteServiceProvider and all of them will
| be assigned to the "web" middleware group. Make something great!
|
*/

// Route::get('/add', function () {
//     return view('add');
// }->name('add'));

route::get('/add',[StudentController::class,'addstudentform']->name('add'));

route::post('/addStudent',[StudentController::class,'addStudent']->name('addStudent'));

route::get('/singleStudent/{id}',[StudentController::class,'singleStudent']->name('singleStudent'));

route::get('/',[StudentController::class,'ShowStudent']->name('home'));

route::get('/delete/{id}',[StudentController::class,'deleteStudent']->name('deleteStudent'));

route::get('/updatePage/{id}',[StudentController::class,'updatePage']->name('updatePage'));

route::post('/updateStudent/{id}',[StudentController::class,'updateStudent']->name('updateStudent'));
// route::post('/adddata',[CrudController::class,'adduser']->name('adduser'));

```

[view Page –](#)

[Header.blade.php –](#)

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <title>CRUD</title>
    <link rel="stylesheet" href="/css/style.css">
</head>
<body>
    <div id="wrapper">
        <div id="header">
            <h1>Crud</h1>
        </div>
        <div id="menu">

```

```

        <ul>
            <li>
                <a href="{{route('home')}}">Home</a>
            </li>
            <li>
                <a href="{{route('add')}}">Add</a>
            </li>
        </ul>
    </div>

```

### add.blade.php –

```

@include ('header')
<div id="main-content">
    <h2>Add New Record</h2>
    <form class="post-form" action="{{route('addStudent')}}" method="POST">
        @csrf
        <div class="form-group">
            <label>First Name</label>
            <input type="text" name="fname" value="{{old('fname')}}" />
            <span style="color:red;">@error('fname'){{$message}}@enderror</span>
        </div>
        <div class="form-group">
            <label>Last Name</label>
            <input type="text" name="lname" value="{{old('lname')}}" />
            <span style="color:red;">@error('lname'){{$message}}@enderror</span>
        </div>
        <div class="form-group">
            <label>Email</label>
            <input type="email" name="email" value="{{old('email')}}" />
            <span style="color:red;">@error('email'){{$message}}@enderror</span>
        </div>
        <div class="form-group">
            <label>Password</label>
            <input type="password" name="password" value="{{old('password')}}" />
            <span style="color:red;">@error('password'){{$message}}@enderror</span>
        </div>
        <div class="form-group">
            <label>Confirm Password</label>
            <input type="password" name="confpassword" value="{{old('confpassword')}}" />
            <span style="color:red;">@error('confpassword'){{$message}}@enderror</span>
        </div>
        <div class="form-group">
            <label>gender</label>
            <input type="text" name="gender" value="{{old('gender')}}" />
            <span style="color:red;">@error('gender'){{$message}}@enderror</span>
        </div>
        <div class="form-group">
            <label>Address</label>
            <textarea name="address" cols="30" rows="10" >{{old('address')}}</textarea>

```

```

        <span style="color:red;">@error('address'){{$message}}@enderror</span>
    </div>
    <div class="form-group">
        <label>Class</label>
        <select name="class">
            <option value="" selected disabled>Select Class</option>
            @foreach($data as $student)
                <option value="{{ $student->cid }}" {{ old('class') == $student->cid ?
'selected' : '' }}>{{$student->class}}</option>
            @endforeach
        </select>
        <span style="color:red;">@error('class'){{$message}}@enderror</span>
    </div>
    <div class="form-group">
        <label>Phone</label>
        <input type="number" name="phone" value="{{old('phone')}}"/>
        <span style="color:red;">@error('phone'){{$message}}@enderror</span>
    </div>
    <input class="submit" type="submit" value="Save" />
</form>
</div>
</div>
</body>
</html>

```

### index.blade.php –

```

@include ('header')
<div id="main-content">
    <h2>All Records</h2>

    @if(Session::has('success'))
        <div style="border:2px solid white;width:100%;background-color:rgb(142, 208,
142);padding:5px;border-radius:30px;">
            <p>{{Session::get('success')}}</p>
        </div>
    @endif

    @if(Session::has('denger'))
        <div style="border:2px solid white;(204, 90, 14);width:100%;background-
color:rgb(214, 107, 13);padding:5px;border-radius:30px;">
            <p>{{Session::get('denger')}}</p>
        </div>
    @endif

    <table cellpadding="7px">
        <thead>

```



```

        <th>Id</th>
        <th>First Name</th>
        <th>Last Name</th>
        <th>Password</th>
        <th>Conf Password</th>
        <th>Email</th>
        <th>Class</th>
        <th>Gender</th>
        <th>Phone</th>
        <th>Address</th>
        <th>View</th>
        <th>Edit</th>
        <th>Delete</th>
    </thead>
    <tbody>
        @foreach($data as $student)
            <tr>
                <td>{{ $student->id }}</td>
                <td>{{ $student->fname }}</td>
                <td>{{ $student->lname }}</td>
                <td>{{ $student->password }}</td>
                <td>{{ $student->confpassword }}</td>
                <td>{{ $student->email }}</td>
                <td>{{ $student->class }}</td>
                <td>{{ $student->gender }}</td>
                <td>{{ $student->phone }}</td>
                <td>{{ $student->address }}</td>

                <td><a style="background-color:green;"
href={{ route('singleStudent',$student->id) }}>View</a></td>
                <td><a style="background-color:blue;" href={{ route('updatePage',$student-
>id) }} onclick="return confirm('Are you sure ?')">Edit</a></td>
                <td><a href={{ route('deleteStudent',$student->id) }} onclick="return
confirm('Are you sure ?')">Delete</a></td>
            </tr>
        @endforeach

    </tbody>
</table>
</div>
</div>
</body>
</html>

```

### update.blade.php –

```

@include('header')
<div id="main-content">
    <h2>Update Record</h2>

```

```

<form class="post-form" action="{{route('updateStudent',$data->id)}}" method="post">
    @csrf
    <div class="form-group">
        <label>First Name</label>
        <input type="text" name="fname" value="{{ $data->fname }}" />
        <span style="color:red;">@error('fname'){{ $message }}@enderror</span>
    </div>
    <div class="form-group">
        <label>Last Name</label>
        <input type="text" name="lname" value="{{ $data->lname }}" />
        <span style="color:red;">@error('lname'){{ $message }}@enderror</span>
    </div>
    <div class="form-group">
        <label>Email</label>
        <input type="email" name="email" value="{{ $data->email }}" />
        <span style="color:red;">@error('email'){{ $message }}@enderror</span>
    </div>
    <div class="form-group">
        <label>Password</label>
        <input type="password" name="password" value="{{ $data->password }}" />
        <span style="color:red;">@error('password'){{ $message }}@enderror</span>
    </div>
    <div class="form-group">
        <label>Confirm Password</label>
        <input type="password" name="confpassword" value="{{ $data->confpassword }}" />
        <span style="color:red;">@error('confpassword'){{ $message }}@enderror</span>
    </div>
    <div class="form-group">
        <label>gender</label>
        <input type="text" name="gender" value="{{ $data->gender }}" />
        <span style="color:red;">@error('gender'){{ $message }}@enderror</span>
    </div>
    <div class="form-group">
        <label>Address</label>
        <textarea name="address" cols="30" rows="10">{{ $data->address }}</textarea>
        <span style="color:red;">@error('address'){{ $message }}@enderror</span>
    </div>
    <div class="form-group">
        <label>Class</label>
        <select name="class">
            <option value="" selected disabled>Select Class</option>
            @foreach($data1 as $student)
                <option value="{{ $student->cid }}" @if($data->class == $student->cid)
selected @endif>{{ $student->class }}</option>
            @endforeach
        </select>
        <span style="color:red;">@error('class'){{ $message }}@enderror</span>
    </div>
    <div class="form-group">
        <label>Phone</label>
        <input type="number" name="phone" value="{{ $data->phone }}" />
        <span style="color:red;">@error('phone'){{ $message }}@enderror</span>
    </div>
    <input class="submit" type="submit" value="Update" />

```

```
    </form>
</div>
</div>
</body>
</html>
```

[View page](#)

```
@include('header')
<div id="main-content" align='center'>
    <h2>Single Record</h2>
    <table cellpadding="7px" style="width:50%; text-align:center;">
        <tbody>

            <tr>
                <th>Id :</th>
                <td>{{ $student->id }}</td>
            </tr>
            <tr>
                <th>First Name :</th>
                <td>{{ $student->fname }}</td>
            </tr>
            <tr>
                <th>Last Name :</th>
                <td>{{ $student->lname }}</td>
            </tr>
            <tr>
                <th>Password :</th>
                <td>{{ $student->password }}</td>
            </tr>
            <tr>
                <th>Conf Password :</th>
                <td>{{ $student->confpassword }}</td>
            </tr>
            <tr>
                <th>Email :</th>
                <td>{{ $student->email }}</td>
            </tr>
            <tr>
                <th>Class :</th>
                <td>{{ $student->class }}</td>
            </tr>
            <tr>
                <th>Gender :</th>
                <td>{{ $student->gender }}</td>
            </tr>
            <tr>
                <th>Phone :</th>
                <td>{{ $student->phone }}</td>
            </tr>
            <tr>
```

```

        <th>Address :</th>
        <td>{{$student->address}}</td>
    </tr>

</tbody>
</table>
</div>
</div>
</body>
</html>

```

## Frontend –

### Index

CRUD

HOME ADD

All Records

ID	FIRST NAME	LAST NAME	PASSWORD	CONF PASSWORD	EMAIL	CLASS	GENDER	PHONE	ADDRESS	VIEW	EDIT	DELETE
123456789	vishal	maurya	vk0000000	vk0000000	vm12@gmail.com	BSC	male	9511081531	nldmnikmasd.lam;dmsa.m	<a href="#">VIEW</a>	<a href="#">EDIT</a>	<a href="#">DELETE</a>
133937082	Vishal	maurya	vm00000000	vm00000000	alul@123gmail.com	B.TECH	Male	9511081531	Police line , ramalpatti mirzapur	<a href="#">VIEW</a>	<a href="#">EDIT</a>	<a href="#">DELETE</a>

### Add



