

Simple CRUD Using Model in LARAVEL

MIGRATION Page –

Command :

php artisan make:migration create_student_data_table

php artisan migrate

php artisan migrate:refresh

```
<?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('students', function (Blueprint $table) {
            $table->integer('id');
            $table->string('name',20);
            $table->string('email',20);
            $table->string('password',50);
            $table->string('class',30);
            $table->string('language',30);
            $table->string('gender',10);
            $table->string('phone',15);
            $table->text('address');
            $table->timestamps();
        });
    }

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

Controller Page –

Command:

php artisan make:controller CrudController

```
<?php

namespace App\Http\Controllers;

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

class StudentController extends Controller
{
    public function addStudent(Request $req)
    {
        $req->validate([
            'name'=>'required',
            'email'=>'required|email',
            'password'=>'required|min:8',
            'class'=>'required',
            'language'=>'required',
            'gender'=>'required',
            'phone'=>'required|numeric|digits:10',
            'address'=>'required',

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

                'id'=>rand(111,9999999999),
                'name'=>$req->name,
                'email'=>$req->email,
                'password'=>$req->password,
                'class'=>$req->class,
                'language'=>implode(',',$req->language),
                'gender'=>$req->gender,
                'phone'=>$req->phone,
                'address'=>$req->address,

            ]
        );

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

```

public function ShowStudent()
{
    $students = Student::get();
    return view('index',compact('students'));
}

public function deleteStudent(string $id)
{
    $students = Student::findorFail($id)->delete();
    if ($students)
    {
        return redirect()->route('home')->with('denger', 'Student Deleted Successfully');
    }
}

public function singleStudent(string $id)
{
    $students =student::find($id);
    return view('view',compact('students'));
}

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

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

    ]);

    $students = student::findorFail($id)
        ->update(
            [
                'name'=>$req->name,
                'email'=>$req->email,
                'password'=>$req->password,
            ]
        );
}

```

```

                'class'=>$req->class,
                'language'=>implode(',',$req->language),
                'gender'=>$req->gender,
                'phone'=>$req->phone,
                'address'=>$req->address,

            ]
        );

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

```

Model Page –

Command:

php artisan make:model student

```

<?php

namespace App\Models;

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

class Student extends Model
{
    use HasFactory;

    protected $table = 'Students';

    protected $fillable = [
        'id',
        'name',
        'email',
        'password',
        'class',
        'language',
        'gender',
        'phone',
        'address'
    ];
}

```

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('/', function () {
//     return view('welcome');
// });

Route::get('/add', function () {
    return view('add');
})->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}/edit',[StudentController::class,'updatePage'])->
>name('updatePage');

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

add Page –

```

@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>Name</label>
            <input type="text" name="name" value="{{old('name')}}" />
            <span style="color:red;">@error('name'){{$message}}@enderror</span>
        </div>
        <div class="form-group">
            <label>Email</label>
            <input type="email" name="email" value="{{old('email')}}" />
            <span style="color:red;">@error('email'){{$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>Class</label>
            <select name="class">
                <option value="" selected disabled>Select Class</option>
                <option value="BCA" {{ old('class') == 'BCA' ? 'selected' : '' }}>BCA</option>
                <option value="BSC" {{ old('class') == 'BSC' ? 'selected' : '' }}>BSC</option>
                <option value="B.TECH" {{ old('class') == 'B.TECH' ? 'selected' : '' }}>B.TECH</option>
            </select>

            <span style="color:red;">@error('class'){{$message}}@enderror</span>
        </div>
        <div class="form-check">
            <div class="form-group">
                <label>Language</label>
            </div>
            <input class="form-check-input" type="checkbox" name="language[]" value="Hindi" {{ in_array('Hindi', old('language', [])) ? 'checked' : '' }}>
            <label class="form-check-label" for="flexCheckDefault">Hindi</label>
            <input class="form-check-input" type="checkbox" name="language[]" value="English" {{ in_array('English', old('language', [])) ? 'checked' : '' }}>
            <label class="form-check-label" for="flexCheckDefault">English</label>
            <span style="color:red;">@error('language'){{$message}}@enderror</span>
        </div>
        <br>
        <div class="form-check">
            <div class="form-group">
                <label>Gender</label>
            </div>
            <input class="form-check-input" type="radio" name="gender" id="male" value="male" {{ old('gender') == 'male' ? 'checked' : '' }}>

```

```

        <label class="form-check-label" for="male">Male</label>
        <input class="form-check-input" type="radio" name="gender" id="female"
value="female" {{ old('gender') == 'female' ? 'checked' : '' }}>
        <label class="form-check-label" for="female">Female</label>
        <span style="color:red;">@error('gender'){{$message}}@enderror</span>
    </div><br>

    <div class="form-group">
        <label>Phone</label>
        <input type="text" name="phone" value="{{old('phone')}}"/>
        <span style="color:red;">@error('phone'){{$message}}@enderror</span>
    </div>
    <div class="form-group">
        <label>Address</label>
        <textarea name="address" id="" cols="40"
rows="5">{{old('address')}}</textarea>
        <span style="color:red;">@error('address'){{$message}}@enderror</span>
    </div>
    <input class="submit" type="submit" value="Save" />
</form>
</div>
</div>
</body>
</html>

```

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>
    </div>

```

```
</ul>
</div>
```

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>Name</th>
            <th>Email</th>
            <th>Password</th>
            <th>Class</th>
            <th>Language</th>
            <th>Gender</th>
            <th>Phone</th>
            <th>Address</th>
            <th>View</th>
            <th>Edit</th>
            <th>Delete</th>
        </thead>
        <tbody>
            @foreach($students as $student)
                <tr>
                    <td>{{ $student->id }}</td>
                    <td>{{ $student->name }}</td>
                    <td>{{ $student->email }}</td>
                    <td>{{ $student->password }}</td>
                    <td>{{ $student->class }}</td>
                    <td>{{ $student->language }}</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',$students->id)}}"
method="post">
        @csrf
        <div class="form-group">
            <label>Name</label>
            <input type="text" name="name" value="{{{$students->name}}}" />
            <span style="color:red;">@error('name'){{$message}}@enderror</span>
        </div>
        <div class="form-group">
            <label>Email</label>
            <input type="email" name="email" value="{{{$students->email}}}" />
            <span style="color:red;">@error('email'){{$message}}@enderror</span>
        </div>
        <div class="form-group">
            <label>Password</label>
            <input type="password" name="password" value="{{{$students->password}}}" />
            <span style="color:red;">@error('password'){{$message}}@enderror</span>
        </div>

        <div class="form-group">
            <label>Class</label>
            <select name="class">
                <option value="" selected disabled>Select Class</option>

```

```

        <option value="BCA" @if($students->class == 'BCA')selected
@endif>BCA</option>
        <option value="BSC" @if($students->class == 'BSC')selected
@endif>BSC</option>
        <option value="B.TECH" @if($students->class == 'B.TECH')selected
@endif>B.TECH</option>
    </select>
    <span style="color:red;">@error('class'){{$message}}@enderror</span>
</div>
<div class="form-check">
<div class="form-group">
    <label>Language</label>
</div>

    <input class="form-check-input" type="checkbox" name="language[]"
value="Hindi" @if(in_array('Hindi',explode(',',$students->language)))checked @endif>
    <label class="form-check-label" for="flexCheckDefault">Hindi</label>
    <input class="form-check-input" type="checkbox" name="language[]"
value="English" @if(in_array('English',explode(',',$students->language)))checked @endif>
    <label class="form-check-label" for="flexCheckDefault">English</label>
    <span style="color:red;">@error('language'){{$message}}@enderror</span>
</div><br>
<div class="form-check">
<div class="form-group">
    <label>Gender</label>
</div>
    <input class="form-check-input" type="radio" name="gender" value="male"
@if($students->gender == 'male')checked @endif>
    <label class="form-check-label" for="male">Male</label>
    <input class="form-check-input" type="radio" name="gender" value="female"
@if($students->gender == 'female')checked @endif>
    <label class="form-check-label" for="female">Female</label>
    <span style="color:red;">@error('gender'){{$message}}@enderror</span>
</div><br>
<div class="form-group">
    <label>Phone</label>
    <input type="text" name="phone" value="{{$students->phone}}"/>
    <span style="color:red;">@error('phone'){{$message}}@enderror</span>
</div>
<div class="form-group">
    <label>Address</label>
    <textarea name="address" id="" cols="40" rows="5">{{$students-
>address}}</textarea>
    <span style="color:red;">@error('address'){{$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>{{ $students->id }}</td>
      </tr>
      <tr>
        <th>Name :</th>
        <td>{{ $students->name }}</td>
      </tr>
      <tr>
        <th>Email :</th>
        <td>{{ $students->email }}</td>
      </tr>
      <tr>
        <th>Password :</th>
        <td>{{ $students->password }}</td>
      </tr>
      <tr>
        <th>Class :</th>
        <td>{{ $students->class }}</td>
      </tr>
      <tr>
        <th>Language :</th>
        <td>{{ $students->language }}</td>
      </tr>
      <tr>
        <th>Gender :</th>
        <td>{{ $students->gender }}</td>
      </tr>
      <tr>
        <th>Phone :</th>
        <td>{{ $students->phone }}</td>
      </tr>
      <tr>
        <th>Address :</th>
        <td>{{ $students->address }}</td>
      </tr>

    </tbody>
  </table>
</div>
```

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

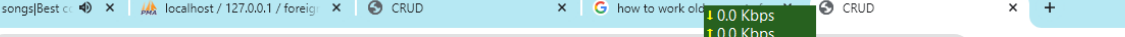
Frontend –

index

All Records

ID	NAME	EMAIL	PASSWORD	CLASS	LANGUAGE	GENDER	PHONE	ADDRESS	VIEW	EDIT	DELETE
218105592	Vishal kumar maurya	atul123@gmail.com	hjbkjknjnmklk	B. TECH	English	female	9511081531	Police line , ramaipatti mirzapur	<button>VIEW</button>	<button>EDIT</button>	<button>DELETE</button>

add



Add New Record

Name	<input type="text"/>
Email	<input type="text"/>
Password	<input type="password"/>
Class	<div>Select Class</div>
Language	<input type="checkbox"/> Hindi <input type="checkbox"/> English
Gender	<input type="radio"/> Male <input type="radio"/> Female
Phone	<input type="text"/>
Address	<div><input type="text"/></div>
<div>SAVE</div>	

Windows taskbar showing the search bar, taskbar icons (including File Explorer, Edge, and various applications), and system tray icons (including network, volume, and date/time: 03:49 AM, 24-02-2024).

update

CRUD

HOME ADD

Update Record

Name: Vishal kumar maurya

Email: atul123@gmail.com

Password: *****

Class: B.TECH

Language: ☐ Hindi ☒ English

Gender: ☐ Male ☒ Female

Phone: 9511081531

Address: Police line , ranaipatti mirzapur

UPDATE

Type here to search

03:50 AM 24-02-2024