**#1: Install Laravel 5.7**

Type the following command. Make sure you have installed **composer**in your machine.

composer create-project --prefer-dist laravel/laravel stocks

Okay, now go inside the folder and install the npm packages using the following command. The requirement for the below command is that **node.js**is installed on your machine. So, if you have not installed, then please install it using its [official site](https://nodejs.org/en/download/).

npm install

**#2: Configure MySQL Database**

Now, first, in **MySQL**, you need to create the database, and then we need to connect that database to the **Laravel application.**You can also use **phpmyadmin**to create the database.

Now, After creating the database, we need to open the **.env**file inside **Laravel stocks project**and add the database credentials. I have typed my credentials; please enter yours otherwise it won’t connect.

DB\_CONNECTION=mysql

DB\_HOST=127.0.0.1

DB\_PORT=3306

DB\_DATABASE=laravel57

DB\_USERNAME=root

DB\_PASSWORD=root

So now you will be able to connect the **MySQL** **database**.

**Laravel** always ships with migration files, so you can able to generate the tables in the database using the following command.

php artisan migrate

**#3: Create a model and migration file.**

Go to the terminal and type the following command to generate the **model**and**migration**file.

php artisan make:model Share -m

It will create the **model**and **migration**file. Now, we will write the schema inside <**timestamp>create\_shares\_table.php**file.

*/\*\**

*\* Run the migrations.*

*\**

*\* @return void*

*\*/*

public function up()

{

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

$table->increments('id');

$table->string('share\_name');

$table->integer('share\_price');

$table->integer('share\_qty');

$table->timestamps();

});

}

Okay now migrate the table using the following command.

php artisan migrate

Now, add the **fillable**property inside **Share.php**file.

<?php

namespace App;

use Illuminate\Database\Eloquent\Model;

class Share extends Model

{

protected $fillable = [

'share\_name',

'share\_price',

'share\_qty'

];

}

**#4: Create routes and controller**

First, create the **ShareController**using the following command.

php artisan make:controller ShareController *--resource*

Now, inside **routes >> web.php**file, add the following line of code.

<?php

Route::get('/', function () {

return view('welcome');

});

Route::resource('shares', 'ShareController');

Actually, by adding the following line, we have registered the multiple routes for our application. We can check it using the following command.

php artisan route:list

Okay, now open the **ShareController.php**file, and you can see that all the functions declarations are there.

<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;

class ShareController extends Controller

{

*/\*\**

*\* Display a listing of the resource.*

*\**

*\* @return \Illuminate\Http\Response*

*\*/*

public function index()

{

*//*

}

*/\*\**

*\* Show the form for creating a new resource.*

*\**

*\* @return \Illuminate\Http\Response*

*\*/*

public function create()

{

*//*

}

*/\*\**

*\* Store a newly created resource in storage.*

*\**

*\* @param \Illuminate\Http\Request $request*

*\* @return \Illuminate\Http\Response*

*\*/*

public function store(Request $request)

{

*//*

}

*/\*\**

*\* Display the specified resource.*

*\**

*\* @param int $id*

*\* @return \Illuminate\Http\Response*

*\*/*

public function show($id)

{

*//*

}

*/\*\**

*\* Show the form for editing the specified resource.*

*\**

*\* @param int $id*

*\* @return \Illuminate\Http\Response*

*\*/*

public function edit($id)

{

*//*

}

*/\*\**

*\* Update the specified resource in storage.*

*\**

*\* @param \Illuminate\Http\Request $request*

*\* @param int $id*

*\* @return \Illuminate\Http\Response*

*\*/*

public function update(Request $request, $id)

{

*//*

}

*/\*\**

*\* Remove the specified resource from storage.*

*\**

*\* @param int $id*

*\* @return \Illuminate\Http\Response*

*\*/*

public function destroy($id)

{

*//*

}

}

**#5: Create the views**

Inside **resources >> views**folder, create one folder called **shares.**

Inside that folder, create the following three files.

1. **create.blade.php**
2. **edit.blade.php**
3. **index.blade.php**

But inside **views**folder, we also need to create a layout file. So create one file inside the**views**folder called **layout.blade.php.**Add the following code inside the **layout.blade.php**file.

<!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>Laravel 5.7 CRUD Example Tutorial</title>

<link href="{{ asset('css/app.css') }}" rel="stylesheet" type="text/css" />

</head>

<body>

<div class="container">

@yield('content')

</div>

<script src="{{ asset('js/app.js') }}" type="text/js"></script>

</body>

</html>

So basically this file is our main template file, and all the other view files will extend this file. Here, we have already included the **bootstrap four**by adding the **app.css.**

Next step would be to code the **create.blade.php**file. So write the following code inside it.

@extends('layout')

@section('content')

<style>

.uper {

margin-top: 40px;

}

</style>

<div class="card uper">

<div class="card-header">

Add Share

</div>

<div class="card-body">

@if ($errors->any())

<div class="alert alert-danger">

<ul>

@foreach ($errors->all() as $error)

<li>{{ $error }}</li>

@endforeach

</ul>

</div><br />

@endif

<form method="post" action="{{ route('shares.store') }}">

<div class="form-group">

@csrf

<label for="name">Share Name:</label>

<input type="text" class="form-control" name="share\_name"/>

</div>

<div class="form-group">

<label for="price">Share Price :</label>

<input type="text" class="form-control" name="share\_price"/>

</div>

<div class="form-group">

<label for="quantity">Share Quantity:</label>

<input type="text" class="form-control" name="share\_qty"/>

</div>

<button type="submit" class="btn btn-primary">Add</button>

</form>

</div>

</div>

@endsection

Okay, now we need to open the **ShareController.php**file, and on the create function, we need to return a view, and that is the **create.blade.php**file.

*// ShareController.php*

public function create()

{

return view('shares.create');

}

Save the file and start the Laravel development server using the following command.

php artisan serve

Go to the **http://localhost:8000/shares/create.**

You can see something like this.

**#6: Save the data**

Now, we need to code the **store**function to save the data in the database. First, include the **Share.php**model inside **ShareController.php**file.

<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;

use App\Share;

class ShareController extends Controller

{

*/\*\**

*\* Display a listing of the resource.*

*\**

*\* @return \Illuminate\Http\Response*

*\*/*

public function index()

{

*//*

}

*/\*\**

*\* Show the form for creating a new resource.*

*\**

*\* @return \Illuminate\Http\Response*

*\*/*

public function create()

{

return view('shares.create');

}

*/\*\**

*\* Store a newly created resource in storage.*

*\**

*\* @param \Illuminate\Http\Request $request*

*\* @return \Illuminate\Http\Response*

*\*/*

public function store(Request $request)

{

$request->validate([

'share\_name'=>'required',

'share\_price'=> 'required|integer',

'share\_qty' => 'required|integer'

]);

$share = new Share([

'share\_name' => $request->get('share\_name'),

'share\_price'=> $request->get('share\_price'),

'share\_qty'=> $request->get('share\_qty')

]);

$share->save();

return redirect('/shares')->with('success', 'Stock has been added');

}

*/\*\**

*\* Display the specified resource.*

*\**

*\* @param int $id*

*\* @return \Illuminate\Http\Response*

*\*/*

public function show($id)

{

*//*

}

*/\*\**

*\* Show the form for editing the specified resource.*

*\**

*\* @param int $id*

*\* @return \Illuminate\Http\Response*

*\*/*

public function edit($id)

{

*//*

}

*/\*\**

*\* Update the specified resource in storage.*

*\**

*\* @param \Illuminate\Http\Request $request*

*\* @param int $id*

*\* @return \Illuminate\Http\Response*

*\*/*

public function update(Request $request, $id)

{

*//*

}

*/\*\**

*\* Remove the specified resource from storage.*

*\**

*\* @param int $id*

*\* @return \Illuminate\Http\Response*

*\*/*

public function destroy($id)

{

*//*

}

}

If the validation fails, then it will throw an error, and we will display inside the **create.blade.php**file.

If all the values are good and pass the validation, then it will save the values in the database.

**#7: Display the data.**

Okay, now open the file called **index.blade.php**file and add the following code.

@extends('layout')

@section('content')

<style>

.uper {

margin-top: 40px;

}

</style>

<div class="uper">

@if(session()->get('success'))

<div class="alert alert-success">

{{ session()->get('success') }}

</div><br />

@endif

<table class="table table-striped">

<thead>

<tr>

<td>ID</td>

<td>Stock Name</td>

<td>Stock Price</td>

<td>Stock Quantity</td>

<td colspan="2">Action</td>

</tr>

</thead>

<tbody>

@foreach($shares as $share)

<tr>

<td>{{$share->id}}</td>

<td>{{$share->share\_name}}</td>

<td>{{$share->share\_price}}</td>

<td>{{$share->share\_qty}}</td>

<td><a href="{{ route('shares.edit',$share->id)}}" class="btn btn-primary">Edit</a></td>

<td>

<form action="{{ route('shares.destroy', $share->id)}}" method="post">

@csrf

@method('DELETE')

<button class="btn btn-danger" type="submit">Delete</button>

</form>

</td>

</tr>

@endforeach

</tbody>

</table>

<div>

@endsection

Next thing is we need to code the **index() function**inside **ShareController.php**file**.**

<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;

use App\Share;

class ShareController extends Controller

{

*/\*\**

*\* Display a listing of the resource.*

*\**

*\* @return \Illuminate\Http\Response*

*\*/*

public function index()

{

$shares = Share::all();

return view('shares.index', compact('shares'));

}

*/\*\**

*\* Show the form for creating a new resource.*

*\**

*\* @return \Illuminate\Http\Response*

*\*/*

public function create()

{

return view('shares.create');

}

*/\*\**

*\* Store a newly created resource in storage.*

*\**

*\* @param \Illuminate\Http\Request $request*

*\* @return \Illuminate\Http\Response*

*\*/*

public function store(Request $request)

{

$request->validate([

'share\_name'=>'required',

'share\_price'=> 'required|integer',

'share\_qty' => 'required|integer'

]);

$share = new Share([

'share\_name' => $request->get('share\_name'),

'share\_price'=> $request->get('share\_price'),

'share\_qty'=> $request->get('share\_qty')

]);

$share->save();

return redirect('/shares')->with('success', 'Stock has been added');

}

*/\*\**

*\* Display the specified resource.*

*\**

*\* @param int $id*

*\* @return \Illuminate\Http\Response*

*\*/*

public function show($id)

{

*//*

}

*/\*\**

*\* Show the form for editing the specified resource.*

*\**

*\* @param int $id*

*\* @return \Illuminate\Http\Response*

*\*/*

public function edit($id)

{

*//*

}

*/\*\**

*\* Update the specified resource in storage.*

*\**

*\* @param \Illuminate\Http\Request $request*

*\* @param int $id*

*\* @return \Illuminate\Http\Response*

*\*/*

public function update(Request $request, $id)

{

*//*

}

*/\*\**

*\* Remove the specified resource from storage.*

*\**

*\* @param int $id*

*\* @return \Illuminate\Http\Response*

*\*/*

public function destroy($id)

{

*//*

}

}

**#8: Edit and Update Data**

First, we need to code the **edit()**function inside  **ShareController.php**file.

<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;

use App\Share;

class ShareController extends Controller

{

*/\*\**

*\* Display a listing of the resource.*

*\**

*\* @return \Illuminate\Http\Response*

*\*/*

public function index()

{

$shares = Share::all();

return view('shares.index', compact('shares'));

}

*/\*\**

*\* Show the form for creating a new resource.*

*\**

*\* @return \Illuminate\Http\Response*

*\*/*

public function create()

{

return view('shares.create');

}

*/\*\**

*\* Store a newly created resource in storage.*

*\**

*\* @param \Illuminate\Http\Request $request*

*\* @return \Illuminate\Http\Response*

*\*/*

public function store(Request $request)

{

$request->validate([

'share\_name'=>'required',

'share\_price'=> 'required|integer',

'share\_qty' => 'required|integer'

]);

$share = new Share([

'share\_name' => $request->get('share\_name'),

'share\_price'=> $request->get('share\_price'),

'share\_qty'=> $request->get('share\_qty')

]);

$share->save();

return redirect('/shares')->with('success', 'Stock has been added');

}

*/\*\**

*\* Display the specified resource.*

*\**

*\* @param int $id*

*\* @return \Illuminate\Http\Response*

*\*/*

public function show($id)

{

*//*

}

*/\*\**

*\* Show the form for editing the specified resource.*

*\**

*\* @param int $id*

*\* @return \Illuminate\Http\Response*

*\*/*

public function edit($id)

{

$share = Share::find($id);

return view('shares.edit', compact('share'));

}

*/\*\**

*\* Update the specified resource in storage.*

*\**

*\* @param \Illuminate\Http\Request $request*

*\* @param int $id*

*\* @return \Illuminate\Http\Response*

*\*/*

public function update(Request $request, $id)

{

*//*

}

*/\*\**

*\* Remove the specified resource from storage.*

*\**

*\* @param int $id*

*\* @return \Illuminate\Http\Response*

*\*/*

public function destroy($id)

{

*//*

}

}

Now, add the following lines of code inside the **edit.blade.php**file.

@extends('layout')

@section('content')

<style>

.uper {

margin-top: 40px;

}

</style>

<div class="card uper">

<div class="card-header">

Edit Share

</div>

<div class="card-body">

@if ($errors->any())

<div class="alert alert-danger">

<ul>

@foreach ($errors->all() as $error)

<li>{{ $error }}</li>

@endforeach

</ul>

</div><br />

@endif

<form method="post" action="{{ route('shares.update', $share->id) }}">

@method('PATCH')

@csrf

<div class="form-group">

<label for="name">Share Name:</label>

<input type="text" class="form-control" name="share\_name" value={{ $share->share\_name }} />

</div>

<div class="form-group">

<label for="price">Share Price :</label>

<input type="text" class="form-control" name="share\_price" value={{ $share->share\_price }} />

</div>

<div class="form-group">

<label for="quantity">Share Quantity:</label>

<input type="text" class="form-control" name="share\_qty" value={{ $share->share\_qty }} />

</div>

<button type="submit" class="btn btn-primary">Update</button>

</form>

</div>

</div>

@endsection

Finally, code the **update**function inside **ShareController.php**file.

public function update(Request $request, $id)

{

$request->validate([

'share\_name'=>'required',

'share\_price'=> 'required|integer',

'share\_qty' => 'required|integer'

]);

$share = Share::find($id);

$share->share\_name = $request->get('share\_name');

$share->share\_price = $request->get('share\_price');

$share->share\_qty = $request->get('share\_qty');

$share->save();

return redirect('/shares')->with('success', 'Stock has been updated');

}

So, now you can update the existing values.

**#9: Delete the data**

Just code the **delete function**inside **ShareController.php**file.

public function destroy($id)

{

$share = Share::find($id);

$share->delete();

return redirect('/shares')->with('success', 'Stock has been deleted Successfully');

}