**Laravel Restful API**

**CRUD Operation**

When we create our Laravel api, route will be define in api.php, but not web.php

Then other is same like web.

Api.php code…

<?php

Route::get('/data/show/all','DataController@data\_show');

Route::get('/data/show/individual/{id}','DataController@data\_show\_individual');

Route::post('/data/insert','DataController@data\_insert');

Route::patch('data/update/{id}','DataController@data\_update');

Route::delete('data/delete/{id}','DataController@data\_delete');

Then create a controller and code…

<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;

use DB;

class DataController extends Controller

{

public function data\_show()

{

$data=DB::table('data\_entries')->get();

return response()->json($data);

}

public function data\_show\_individual($id)

{

$data=DB::table('data\_entries')

->where('id',$id)

->first();

return response()->json($data);

}

public function data\_insert(Request $req)

{

//For validation it is needed

$validated = $req->validate([

'data1' => 'required|unique:data\_entries|max:255',

'data2' => 'required',

]);

$data=array();

$data['data1']=$req->data1;

$data['data2']=$req->data2;

$inserted=DB::table('data\_entries')

->Insert($data);

if($inserted)

{

return response('inserted successfully');

}

else

{

return response('not inserted');

}

}

public function data\_update(Request $req,$id)

{

$data=array();

$data['data2']=$req->data2;

$update=DB::table('data\_entries')

->where('id',$id)

->update($data);

if($update)

{

return response('update successfully');

}

else

{

return response('not updated');

}

}

public function data\_delete($id)

{

$delete=DB::table('data\_entries')

->where('id',$id)

->delete();

if($delete)

{

return response('delete successfully');

}

else

{

return response('not deleted');

}

}

}

**Authentication By JWT Token**

Source link: <https://jwt-auth.readthedocs.io/en/develop/laravel-installation/>

First type in cmd

composer self-update –2

Then type in cmd

composer require tymon/jwt-aut

Then follow instruction of source link

Source link: <https://jwt-auth.readthedocs.io/en/develop/laravel-installation/>

**(Skip the 2nd page. As, it is lumen initialization. So, It is not needed)**

If any error occur

21

**If you are using Tymon/jwt-auth, this could help you In config\jwt.php file**

Change

'jwt' => Tymon\JWTAuth\Providers\JWT\Lcobucci::class,

to

'jwt' => Tymon\JWTAuth\Providers\JWT\Namshi::class,

**Payload**

It check your token is valid or not

So, route declare

Route::post('payload','AuthController@payload');

Then Controller

public function payload()

{

return auth()->payload();

}

**Claims**

It take extra security

Add by,

if ($token = $this->guard()->claims(['nam' => '202'])->attempt($credentials)) {

return $this->respondWithToken($token);

}

**Register**

Route,

Route::post('register','AuthController@register');

Controller

public function register(Request $req)

{

$data=array();

$data['name']=$req->name;

$data['email']=$req->email;

$req->password=Hash::make($req->password);

$data['password']=$req->password;

$register=DB::table('users')->Insert($data);

return $this->login($req);

}

Then,

Change in controller

$this->middleware('auth:api', ['except' => ['login','register']]);

To register by Postman,

Add form filled password\_confiramtion