**Video 3**

Add data

Error:SQLSTATE[HY000]: General error: 1364 Field 'iso' doesn't have a default value (SQL: insert into

Sol: null checkbox ticked

Use url: [localhost/api/public/api/country](http://localhost/api/public/api/country)

param

name=

iso=

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) \* FROM `\_z\_country` order by id DESC

**Video 4**

update data

localhost/api/public/api/country/241

param

name= aaaa put to update

delete data by id

localhost/api/public/api/country/241

**Video 5(**validation)

use Validator;

URL:=localhost/api/public/api/country for postman

errror: SQLSTATE[23000]: Integrity constraint violation: 1062 Duplicate entry 'TT' for key '\_z\_country\_iso\_unique' (SQL: insert into `\_z\_country` (`iso`, `name`, `dname`, `position`, `numcode`, `phonecode`, `created`, `register\_by`, `modified`, `modified\_by`) values (TT, om, Test, 1, 0, 1, 0, 1, 9, 0))

validation for doit urself

**Video 6**(Resource controller)

php artisan make:controller Country\Country –resource

copy Countrycontroller content to Country resource

comment all CountryController

**Video 7**(Token\_Auth)

Token: piece of data which only server could possibily have created and which have enough data to identify a particular data.

Token\_authentication: you might present your login information and ask Server for a token and then you might present your token and ask server to perform some user-specific action.

Token are creaated using various combinations of techniques from field of cryptography as well as with input from the wider field of security research.

1. php artisan make:auth
2. composer require paragonie/random\_compat=~2.0 //self made composer
3. composer require laravel/passport=~4.0 (restart pc) for out of memory
4. create PUSHER\_APP\_KEY=
5. php artisan make:middleware AuthKey

$token = $request->header('APP\_KEY');

if($token != 'ABCD1234') {

return response()->json(["message"=>"App key not found"],401);

}

return $next($request);

1. And define in kernel.php below ‘api’

.ENV file APP\_KEY=

\App\Http\Middleware\AuthKey::class,//middleware defined in kernel

1. localhost/authAPI/public/api/country

APP\_KEY in headers and authorisation in postman

url: <http://127.0.0.1:8000/api/country/1>

TYPE= API Key

Key=APP\_KEY

Value=123456

Added to=Header

**Video 8**(Basic\_Auth) in REST APIs

1. Comment Authkey middleware
2. Create php artisan make:middleware AuthBasic
3. In kernal \App\Http\Middleware\AuthBasic::class,

AuthBasic.php

if(Auth::onceBasic()){

return response()->json(['message'=>'Auth failed'],401);

}

else{

return $next($request);

}

1. In postman

url: <http://127.0.0.1:8000/api/country/1>

TYPE= Basic Auth

[Username=abhi144k@gmail.com(created](mailto:Username=abhi144k@gmail.com(created) in auth)

Password=\*\*\*\*\*\*\*\*\*

**Video 9**

**Video 10**(Oauth2)

1. Composer require paragonie/random\_compat=~2.0 Used for laravel 5.7,5.6 and below because passport will not install.
2. Composer require laravel/passport=~4.0(as it already install)
3. Laravel passport provides a full Oauth2 server implementation for laravel.
4. **Refer to laravel documentation page for passport everything**
5. Config/app.php under provider

Laravel\Passport\PassportServiceProvider::class,

App\User model refer from laravel documentation page

use Laravel\Passport\HasApiTokens;

use Notifiable, HasApiTokens;

App/Providers/AuthServiceProvider use Laravel\Passport\Passport;

public function boot(){

Passport::routes();

parent::boot(); }

config/auth.php for our drivers

**Video 11**

1. Comment in kernel.php for Authbasic middleware because passport is installed

url:<http://127.0.0.1:8000/api/country/1>

2. Route::group(['middleware'=>'auth:api'], function(){ Route::apiResource('country','Country\Country');});

What are these concepts? Passport is an official Laravel package that implements Oauth2 and JWT. Auth0 is an authentication and authorization service. It is kinda "all in one" solution for API auth. It implements JWT by default and can implement Oauth2 as well as many other protocols. OAuth2 is an authorization framework or protocol that enables.

3.Expiry of access token

public function boot()

{

$this->registerPolicies();

Passport::routes();

$startTime = date("Y-m-d H:i:s");

$endTime = date("Y-m-d H:i:s", strtotime('+7 day +1 hour +30 minutes +45 seconds', strtotime($startTime)));

$expTime = \DateTime::createFromFormat("Y-m-d H:i:s", $endTime);

Passport::tokenExpireIn($expTime);

}

Commented above due to below

Error: Call to undefined method Laravel\Passport\Passport::tokenExpireIn()

Sol: \Laravel\Passport\Http\Middleware\CreateFreshApiToken::class,

4.php artisan passport:client

ID >3

Name >abc

Where should we redirect the request after authorization? [http://localhost/auth/callback]: >

New client created successfully.

Client ID: 7

Client secret: hI8KW8F1X3qJwPrlrvFG7Hk0nhr4fhCELsp1KIOK

5.Php artisan serve

In postman POST <http://127.0.0.1:8000/oauth/token>In Body form-data

{

    "error": "unsupported\_grant\_type",

    "message": "The authorization grant type is not supported by the authorization server.",

    "hint": "Check the `grant\_type` parameter"

}

In postman POST <http://127.0.0.1:8000/oauth/token>In Body form-data

key = value

grant\_type=client\_credentials

client\_id=7

client\_secret= hI8KW8F1X3qJwPrlrvFG7Hk0nhr4fhCELsp1KIOK

Result

 {

"token\_type": "Bearer",

     "expires\_in": 31536000,

     "access\_token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImp0aSI"

}

In Postman url: GET http://127.0.0.1:8000/api/country/1

Headers-

Key = value

Accept=application/json

Authorization=Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImp0aSI

---------------------------------------

php artisan passport:client

Which user ID should the client be assigned to?:

> 1

What should we name the client?:

> api

Where should we redirect the request after authorization? [http://localhost/auth/callback]:

> http://127.0.0.1:8001/callback

New client created successfully.

Client ID: 8

Client secret: vwXU9PBTndWygAe2a2iFHQBKJiP64osT8lJAi2Wt

In Postman url: GET http://127.0.0.1:8000/api/country/1

Headers-

Key = value

Accept=application/json

Authorization=Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImp0aSI6ImRiMzBlMDQxODZhM2Q1Mzk0ODVlZGQwMzRmZDhmNjM5OWI0NDg3MWQ1YjY5MWUxN2Y5MDFmODU0NzMzYzc4ZWQ2OGZhOTcxNjNhZTgwOWMyIn0.eyJhdWQiOiI5IiwianRpIjoiZGIzMGUwNDE4NmEzZDUzOTQ4NWVkZDAzNGZkOGY2Mzk5YjQ0ODcxZDViNjkxZTE3ZjkwMWY4NTQ3MzNjNzhlZDY4ZmE5NzE2M2FlODA5YzIiLCJpYXQiOjE2MDMwMjM2MTcsIm5iZiI6MTYwMzAyMzYxNywiZXhwIjoxNjM0NTU5NjE3LCJzdWIiOiIiLCJzY29wZXMiOltdfQ.op5VOfCvM0CuSXZqBPo1D5XnYqjUQbrLGn5SKIL0kxsxOqBwuMyFUpOaZdZDDxANFFFOGfyOgOQbJ7GnHKTCUnEp1sTaJyJwoGR9Obk5WJCaZUwAET0gUbVE1qbMWv0qDydDMTuxkh3QXKLm8f7Ok77kv27CR1Zd4k8BzvDzGkBEknVQVCjYrdYVq8iWkVnd7fD0YYueyakTrNMaNaJtOkVx-gKQgzQ9Ccq\_bY2o4X\_t1wZuOVCB-db71OulgLj3xK4Hfxx64ajA2HJIVA\_YlpHo3pdRwMjN5sj3PBy4Vf8z2pT72K4DvEYoG5AHgOCXk2lUzP6kcEZlH7V1HSsGXxT1REeFQDjPMdqLTipiSPu9GyFG53rLAEcjgRcrw4pFWa9fswyZI1HEBXv38ayVpPsrnPgp4CXi0CUXxLSlhr0EyTrAx0TiBDyoIas2JLrj7HEcwt1Fe2hAtFKUL8j6Rv\_eF64VJ1Xaa9TFzFLE5BV3Nlx2ivseidZnGxqICKTEFm3qzgtz\_cRTbE3b1pROdHvU0YIqxM6wHE2DEiSSr0qHD1dOqzVnS4we\_irgAkFqHhnmJxC05ClztCuCGrVs4qYkoj3BisHrJklkruDBKqKYNrjX5NnGN0\_a1faAxCFSTVNitcSVE38eufc4SDZS1kTYJDlG1W8hrpWVil6afps

Step 2: Authorization

TYPE=Bearer Token

Token ---paste above access token----

---------------pending---------------

**Video 12**(pagination)

Comments for passport elements just for pagination

List: Providers/AuthserviceProvider

Route::group

Uncomment in kernal.php for AuthBasic

Make to basic auth and add index() in Country.php controller

url:   "next\_page\_url": "http://127.0.0.1:8000/api/country?page=2",

in postman GET we will get second page a direct url jump to given page number

but it should be in basic auth.

**Video 13**

Download

Route::get('file/country\_list','FileController@countrylist');

return response()->download(public\_path('4.jpg'),'User Image');//User Image is filename

Postman:GET http://127.0.0.1:8000/api/file/country\_list

Upload

Postman:POST <http://127.0.0.1:8000/api/file/country_save> Body=form-data

Key=photo text or file value =

Route::post('file/country\_save','FileController@countrysave');

public function countrysave(Request $request)

{

$fileName = "user\_image.jpg";

$path = $request->file('photo')->move(public\_path("/"),$filename);

$photoURL = url('/'.$fileName);

return response()->json(['url'=> $photoURL],200);

}

File(‘photo’) is attribute of database