# Laravel 9 rest api tutorial | How to make rest API in laravel 9 | Laravel 9 API CRUD from Scratch

# https://www.youtube.com/watch?v=57Ej3X6tzfw

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* Step1:-
  + Migration Student table
    - Command:-
      * php artisan make:migration create\_student\_table
* Step2:-
  + Model Student Generated
    - Command:-
      * php artisan make:model Student
* Step3:-
  + Controller Api/StudentController Genrated.
    - Command:-
      * php artisan make:controller Api/StudentController
* Step4: Api.php add Use Controller And Route
  + use App\Http\Controllers\Api\StudentController;
  + Route::get('students',[StudentController::class,'index']);
* Step5:-
  + Command
    - <http://127.0.0.1:8000/api/students>
* Step6 :-
  + StudentController Api Important Code

public function index()

{

$student = Student::all();

if($student->count() > 0)

{

return response()->json([

'status' => 200,

'students' => $student

],200);

}else{

return response()->json([

'status' => 404,

'students' => 'No Record Found'

],404);

}

return "First Api";

}

# AUTOINSURANCE TABLE API

* COMMAND :
  + Step1 :- Table
  + php artisan make:migration create\_autoinsurance\_table
  + Step2:- Controller
  + php artisan make:controller Api/AutoinsuranceController
  + Step 3:- Model
  + php artisan make:model Autoinsurance
* Api Route:-( GET, POST, PUT, DELETE)

Route::get('autoinsurance',[AutoinsuranceController::class,'index']);

Route::post('autoinsurance',[AutoinsuranceController::class,'store']);

Route::get('autoinsurance/{id}',[AutoinsuranceController::class,'show']);

Route::get('autoinsurance/{id}/edit',[AutoinsuranceController::class,'edit']);

Route::put('autoinsurance/{id}/edit',[AutoinsuranceController::class,'update']);

Route::delete('autoinsurance/{id}/delete',[AutoinsuranceController::class,'destroy']);

* POSTMAN URL HINT:-
* GET :- <http://127.0.0.1:8000/api/autoinsurance>
* POST :- <http://127.0.0.1:8000/api/autoinsurance>
* GET : <http://127.0.0.1:8000/api/autoinsurance/1>
* GET :- <http://127.0.0.1:8000/api/autoinsurance/1/edit>
* PUT :- <http://127.0.0.1:8000/api/autoinsurance/1/edit>
* DELETE:- <http://127.0.0.1:8000/api/autoinsurance/1/delete>

# **what is sanctum?**

https://www.youtube.com/watch?v=YuIbOzvS-Jk

[Laravel Sanctum](https://github.com/laravel/sanctum) provides a featherweight authentication system for SPAs (single page applications), mobile applications, and simple, token based APIs. Sanctum allows each user of your application to generate multiple API tokens for their account.

* **STEP 1:-**
  + COMMAND
  + composer require laravel/sanctum
* **STEP2:-**
  + COMMAND
  + php artisan vendor:publish --provider="Laravel\Sanctum\SanctumServiceProvider"
* **STEP3:-**
  + COMMAND
  + php artisan migrate
  + Database in Auto Genrated
  + Table personal\_access\_tokens
* **STEP4:- (App\Http\Kernal.php Add)**
  + **App\Http\Kernal.php Add Api Array**

'api' => [

\Laravel\Sanctum\Http\Middleware\EnsureFrontendRequestsAreStateful::class,

\Illuminate\Routing\Middleware\ThrottleRequests::class.':api',

\Illuminate\Routing\Middleware\SubstituteBindings::class,

],

* **STEP 5:- (Add HashApiTokes )**
  + **HashApiTokens And Auth add in User Model**
  + use Laravel\Sanctum\HasApiTokens;
  + use Auth;
* **STEP 6:- (Auth Controller Created)**
  + php artisan make:controller Api\AuthController

use Auth;

use Validator;

use App\Models\User;