

## Introduction

The goal is to achieve an authentication system able to register, login, and list users using APIs from a fresh Laravel 8 project deployed on a server. In case of any exception error pages will not log any code which will keep your site secure.

Routes are:

For listing current registered users  
<http://task.darab.site/api/list>

Method GET

For user registration  
<http://task.darab.site/api/register>

Method POST

For user login  
<http://task.darab.site/api/login>

Method POST

# Listing users

Method (GET)

## List Route

```
Route::GET('/list',[ApiController::class,'list']);
```

## ApiController list method

```
public function list(Request $request)
{
    $users = User::all(); //using Laravel Eloquent Modal for query.
    return Response()->json($users); //Retuning All users in json Format
}
```

In post man select Get method and send request to <http://task.darab.site/api/list>

# Login user

Method (POST)

List Route

```
Route::POST('/login',[APIController::class,'login']);
```

APIController list method

```
public function login(Request $request)
{
    $user = User::where('name',$request->name)->first();
    if ($user=="") //if no matching user name found in database
    {
        return Response()->json("No User Found with this name");
    }
    if($user){ //if user exists then match entered password
        if (Hash::check($request['password'],$user->password)) { //Hash check to match with
            hashed password
            return Response()->json("Logged in as :".$user->name); //return json response with
            user name
        }
        else{ //if password wrong
            return Response()->json("Invalid Password");
        }
    }
}
```

In post man select Post method and send request to <http://task.darab.site/api/login>. Select form content-type e.g (form-data, raw or form-urlencoded) while keeping in mind header content-type selected e.g (application/json, application/x-www.....).

# Register user

Method (POST)

## List Route

```
Route::POST('/register',[APIController::class,'Register']);
```

## APIController list method

```
public function Register(Request $request){  
    if ($request->name=="") { //check if user has entered user name  
        return Response()->json("Enter User Name or check Header content-type");  
    }  
    if ($request->password=="") { //check if user has entered Password  
        return Response()->json("Enter User Password");  
    }  
    $existing_user = User::where('name',$request->name)->first(); //check if there is a user  
    already existing with same name  
    if ($existing_user) {  
        return Response()->json("User Already exists. Try with another name");  
    }  
    $User=new User(); //Using laravel eloquent model for database query  
    $User->name=$request->name;  
    $User->password=Hash::make($request->password);  
    $User->save();  
    return Response()->json("New User Registered successfully with the name : " . $User->name);  
}
```

In post man select Post method and send request to <http://task.darab.site/api/register>. Select form content-type e.g (form-data, raw or form-urlencoded) while keeping in mind header content-type selected e.g (application/json, application/x-www.....).