



| POSGRADOS |

Maestría en

Ingeniería de software

Asignatura:

PATRONES DE DISEÑO DE APIS GRUPO - 2

Actividad #:

Práctica 2: Uso de POSTMAN

Autores:

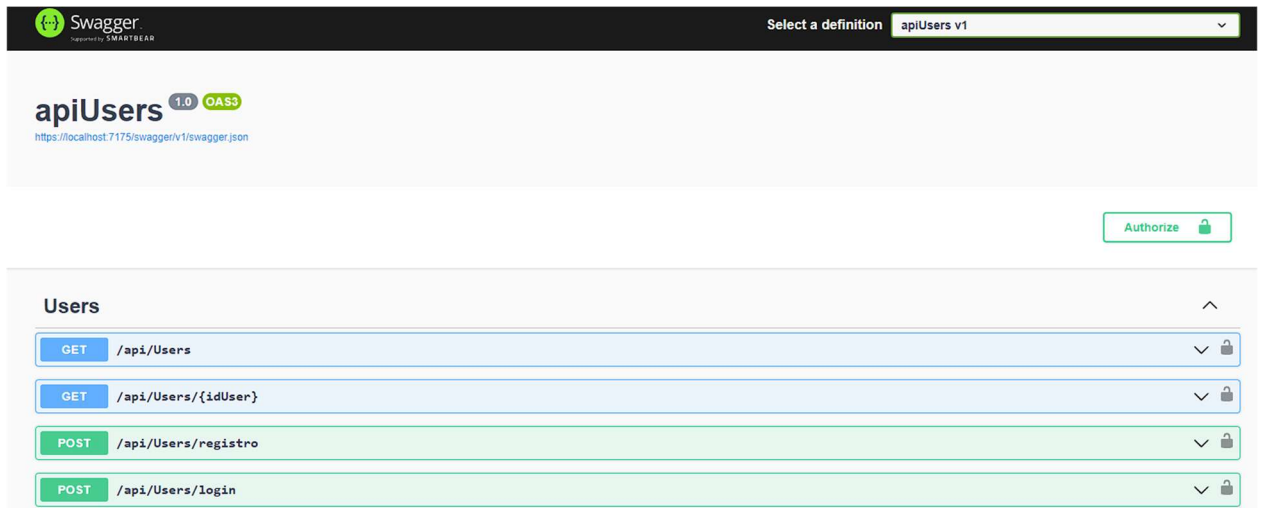
- Juan Carlos Velásquez Vargas

Prof. Patsy Malena Prieto Vélez

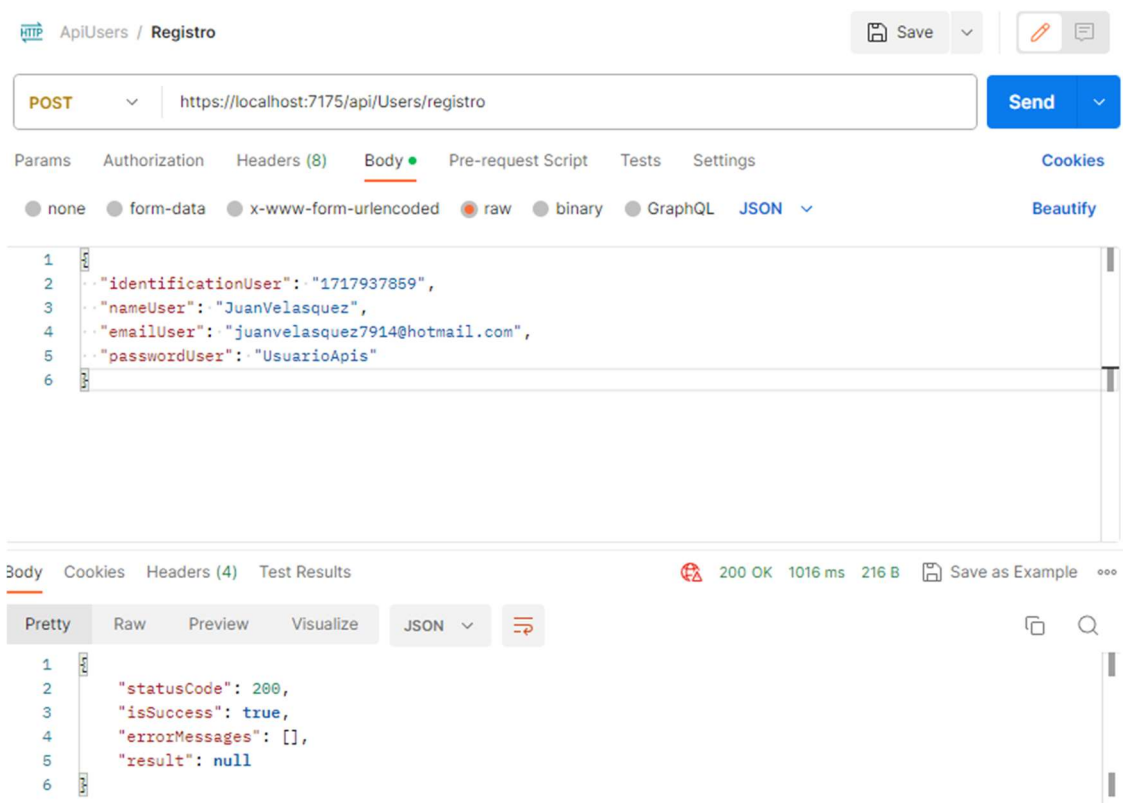


1. Se hace uso de APIS Rest full; desarrolladas en .Net Core 7 con Visual Studio para la materia de desarrollo de aplicaciones de la UPS; la mayoría de métodos de cada api exceptuando la de autenticación están protegidas por Bearer Token para Autorización, por lo que es necesario primero loguearse para obtener un token

a. API DE USUARIOS



NOS REGISTRAMOS COMO USUARIO



NOS LOGUEAMOS CON EL USUARIO CREADO PARA OBTENER UN TOKEN

HTTP ApiUsers / User

Save

GET Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Type

The authorization header is automatically generated when you select the request. Learn more about [authorization](#).

Bearer ...

Inherit auth from parent

No Auth

API Key

Bearer Token

JWT Bearer

Basic Auth

Digest Auth

OAuth 1.0

OAuth 2.0

Hawk Authentication

AWS Signature

NTLM Authentication [Beta]

Akamai EdgeGrid

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. [Learn more about variables](#)

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ...

Response

GET ▼ Send ▼

Params **Authorization** ● Headers (7) Body Pre-request Script Tests Settings Cookies

Type Bearer ... ▼

The authorization header will be automatically generated when you send the request. Learn more about [authorization](#) ↗

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. Learn more about [variables](#) ↗

Token eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ...

ody Cookies Headers (5) Test Results 200 OK 100 ms 995 B Save as Example

Pretty Raw Preview Visualize JSON ▼ ≡

```

1  [
2
3    {
4      "idUser": 3,
5      "identificationUser": "1717937845",
6      "nameUser": "JUAN CARLOS VELÁSQUEZ",
7      "emailUser": "juanvelasquez7914@hotmail.com",
8      "passwordUser": "827ccb0eea8a706c4c34a16891f84e7b",
9      "createUser": "2023-08-25T23:19:21.777"
10   },
11   {
12     "idUser": 2,
13     "identificationUser": "1717937848",
14     "nameUser": "JUAN VELAS",
15     "emailUser": "jvelas@yahoo.com",
16     "passwordUser": "9af790468f66d86791584b110c6325e5",
17     "createUser": "2023-08-17T12:32:15.977"
18   },
19   {
20     "idUser": 1,
21     "identificationUser": "1717937849",
22     "nameUser": "JUAN VELASQUEZ",
23     "emailUser": "jvelas@pichincha.com",
24     "passwordUser": "9af790468f66d86791584b110c6325e5",
25     "createUser": "2023-08-17T12:07:57.873"
26   },
27   {
28     "idUser": 4,
29     "identificationUser": "1717937859",
30     "nameUser": "JUANVELASQUEZ",

```

COMPROBAMOS LOS RESULTADOS CONTRA LA BASE DE DATOS

idUser	identificationU...	nameUser	emailUser	passwordUser	createUser
1	1717937849	JUAN VELASQUEZ	jvelas@pichincha.com	9af790468f66d86791584b110c6325e5	2023-08-17 12:07:57.873
2	1717937848	JUAN VELAS	jvelas@yahoo.com	9af790468f66d86791584b110c6325e5	2023-08-17 12:32:15.977
3	1717937845	JUAN CARLOS VELÁSQUEZ	juanvelasquez7914@hotmail.com	827ccb0eea8a706c4c34a16891f84e7b	2023-08-25 23:19:21.777
4	1717937859	JUANVELASQUEZ	juanvelasquez7914@hotmail.com	cdf375f83d82ab250cdcbcd068fd0695	2023-09-15 21:17:37.160

b. API DE TAREAS

Swagger
powered by SMARTBEAR

Select a definition **apiTasks v1**

apiTasks 1.0 OAS3
<https://localhost:7154/swagger/v1/swagger.json>

Authorize

Categories

- GET /api/Categories
- GET /api/Categories/{idCategory}

StepTasks

- GET /api/StepTasks/{idStepTask}
- GET /api/StepTasks/GetStepTasks/{idTask}
- GET /api/StepTasks/GetStepTasksActive/{taskId}
- POST /api/StepTasks/StepTaskRegistro
- PUT /api/StepTasks/editStatusStepTask/{stepTaskId}
- PUT /api/StepTasks/updateStepTask/{stepTaskId}

Tasks

- GET /api/Tasks/{idTask}
- GET /api/Tasks/GetTasksUser/{idUser}
- GET /api/Tasks/GetHightPriorityTaskUser/{userId}
- GET /api/Tasks/GetActiveTaskUser/{userId}
- POST /api/Tasks/TaskRegistro
- PUT /api/Tasks/editStatusTask/{taskId}
- PUT /api/Tasks/editPriorityTask/{taskId}
- PUT /api/Tasks/updateTask/{taskId}
- DELETE /api/Tasks/deleteTask/{idTask}

PROBAMOS GET DE LA CATEGORIA DE CÓDIGO 2

HTTP ApiTasks / CategoriesID

GET https://localhost:7154/api/Categories/2

Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Type Bearer ...

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. Learn more about [variables](#)

Token eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ...

Body Cookies Headers (5) Test Results

200 OK 44 ms 223 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "idCategory": 2,
3   "nameCategory": "Estudio"
4 }
```

PROBAMOS GET DE TODAS LAS CATEGORIAS

HTTP ApiTasks / Categories

GET https://localhost:7154/api/Categories

Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Type Bearer ...

The authorization header will be automatically generated when you send the request. Learn more about [authorization](#)

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. [Learn more about variables](#)

Token eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ...

body Cookies Headers (5) Test Results 200 OK 130 ms 399 B Save as Example

Pretty Raw Preview Visualize JSON

```

1  {
2    {
3      "idCategory": 1,
4      "nameCategory": "Personal"
5    },
6    {
7      "idCategory": 2,
8      "nameCategory": "Estudio"
9    },
10   {
11     "idCategory": 3,
12     "nameCategory": "Trabajo"
13   },
14   {
15     "idCategory": 4,
16     "nameCategory": "Viaje"
17   },
18   {
19     "idCategory": 5,
20     "nameCategory": "Investigación"
21   }
22 }

```

COMPROBAMOS CON LA BASE DE DATOS

idTask	nameTask	detailTask	statusTask	createTask	limitTask	priorityTask	idUser	idCategory
2	tarea de Pruebas	Esta Tarea es de Pruebas	true	2023-08-17 13:57:56.123	2023-08-17 22:02:10.000	true	1	2
3	tarea de Pruebas	Esta Tarea es de Pruebas	true	2023-08-17 13:58:53.890	2023-08-17 17:57:15.657	true	1	1
4	tarea de Pruebas	Esta Tarea es de Pruebas	false	2023-08-17 14:06:39.320	2023-08-17 17:57:15.657	true	1	1
5	tarea de Pruebas	Esta Tarea es de Pruebas	true	2023-08-17 14:07:10.897	2023-08-17 17:57:15.657	false	1	1
6	tarea de Pruebas	Esta Tarea es de Pruebas	true	2023-08-17 14:11:04.780	2023-08-17 17:57:15.657	false	1	1
7	tarea de Pruebas	Esta Tarea es de Pruebas	true	2023-08-17 14:12:20.450	2023-08-17 17:57:15.657	true	1	1
8	tarea de Pruebas	Esta Tarea es de Pruebas	true	2023-08-17 14:19:00.440	2023-08-17 17:57:15.657	true	2	3
9	tarea de Pruebas	Esta Tarea es de Pruebas	true	2023-08-17 14:19:06.187	2023-08-17 17:57:15.657	true	2	3
10	tarea de Pruebas	Esta Tarea es de Pruebas	true	2023-08-17 14:19:12.520	2023-08-17 17:57:15.657	true	2	3
11	tarea de Pruebas	Esta Tarea es de Pruebas	true	2023-08-17 14:36:18.467	2023-08-17 17:57:15.657	true	1	1
12	tarea de Pruebas	Esta Tarea es de Pruebas	true	2023-08-17 18:19:03.803	2023-08-17 23:17:09.407	true	1	1
13	tarea de Pruebas	Esta Tarea es de Pruebas	true	2023-08-17 18:21:21.523	2023-08-17 23:17:09.000	true	1	1
14	tarea de Pruebas	Esta Tarea es de Pruebas	true	2023-08-17 18:21:24.087	2023-08-17 23:17:09.000	true	1	1
15	tarea de Pruebas	Esta Tarea es de Pruebas	true	2023-08-17 18:21:44.800	2023-08-17 23:17:09.000	true	1	1

PROBAMOS UN POST PARA CREAR UNA TAREA

ApiTasks / TaskRegistro

POST https://localhost:7154/api/Tasks/TaskRegistro

Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   "nameTask": "tarea de Pruebas",
3   "detailTask": "Esta Tarea es de Pruebas",
4   "statusTask": "true",
5   "limitTask": "2023-09-15T23:17:09",
6   "priorityTask": "true",
7   "idUser": 2,
8   "idCategory": 1
9 }
```

Body Cookies Headers (5) Test Results 201 Created 779 ms 462 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "idTask": 16,
3   "nameTask": "tarea de Pruebas",
4   "detailTask": "Esta Tarea es de Pruebas",
5   "statusTask": "true",
6   "createTask": "2023-09-15T21:37:36.1936672-05:00",
7   "limitTask": "2023-09-15T23:17:09",
8   "priorityTask": "true",
9   "idUser": 2,
10  "user": null,
11  "idCategory": 1,
12  "category": null
13 }
```

PROBAMOS UN GET PARA EXTRAER LOS DATOS DE LA TAREA CREADA

ApiTasks / Tasks

GET https://localhost:7154/api/Tasks/16

Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Type Bearer ...

The authorization header will be automatically generated when you send the request. Learn more about [authorization](#)

Token eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ...

Body Cookies Headers (5) Test Results 200 OK 49 ms 406 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "idTask": 16,
3   "nameTask": "tarea de Pruebas",
4   "detailTask": "Esta Tarea es de Pruebas",
5   "statusTask": "true",
6   "createTask": "2023-09-15T21:37:36.193",
7   "limitTask": "2023-09-15T23:17:09",
8   "priorityTask": "true",
9   "idUser": 2,
10  "idCategory": 1
11 }
```

PROBAMOS UN PUT PARA EDITAR LA TAREA CREADA

HTTP ApiTasks / updateTask

PUT https://localhost:7154/api/Tasks/updateTask/16

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```

1 {
2   "nameTask": "TAREA MODIFICADA POR PRUEBAS",
3   "detailTask": "PRUEBAS DE MODIFICACION DE TAREAS",
4   "statusTask": "true",
5   "limitTask": "2023-09-15T22:02:10",
6   "priorityTask": "true",
7   "idUser": 2,
8   "idCategory": 1
9 }

```

Body Cookies Headers (4) Test Results 200 OK 430 ms 216 B Save as Example

Pretty Raw Preview Visualize JSON

```

1 {
2   "statusCode": 200,
3   "isSuccess": true,
4   "errorMessages": [],
5   "result": null
6 }

```

VOLVEMOS A COMPROBAR CON UN GET

HTTP ApiTasks / Tasks

GET https://localhost:7154/api/Tasks/16

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Type Bearer ...

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Token eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ...

Body Cookies Headers (5) Test Results 200 OK 17 ms 427 B Save as Example

Pretty Raw Preview Visualize JSON

```

1 {
2   "idTask": 16,
3   "nameTask": "TAREA MODIFICADA POR PRUEBAS",
4   "detailTask": "PRUEBAS DE MODIFICACION DE TAREAS",
5   "statusTask": "true",
6   "createTask": "2023-09-15T21:37:36.193",
7   "limitTask": "2023-09-15T22:02:10",
8   "priorityTask": "true",
9   "idUser": 2,
10  "idCategory": 1
11 }

```

PROBAMOS UN DELETE PARA BORRAR LA TAREA CREADA

The screenshot shows a REST client interface with the following details:

- Method:** DELETE
- URL:** `https://localhost:7154/api/Tasks/deleteTask/16`
- Authorization:** Bearer token: `eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ...`
- Status:** 204 No Content, 75 ms, 81 B
- Body:** Empty (Pretty view)

COMPROBAMOS CON UN GET A LA TAREA QUE LA MISMA YA NO EXISTE

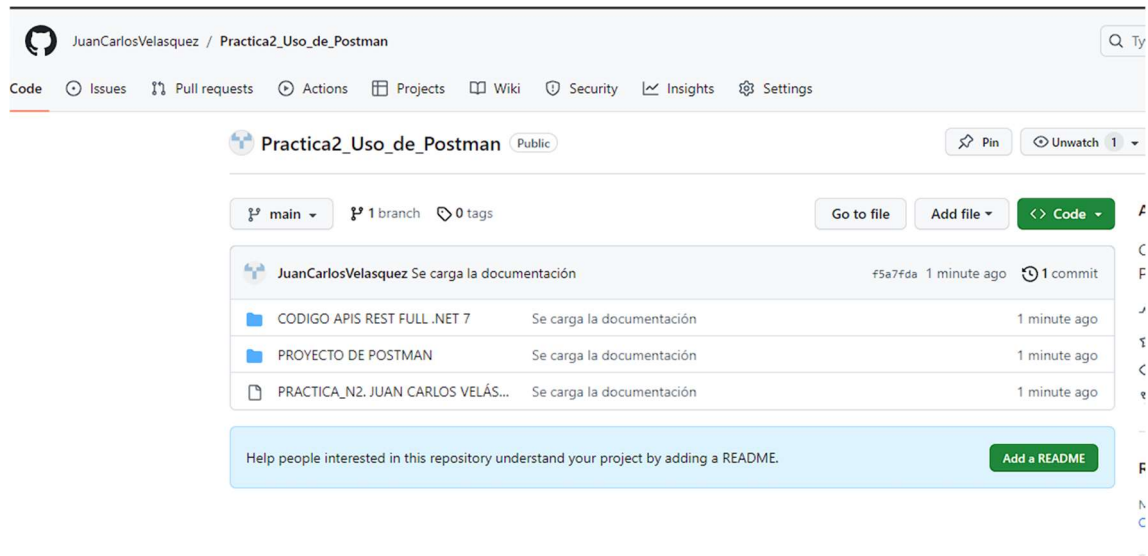
The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** `https://localhost:7154/api/Tasks/16`
- Authorization:** Bearer token: `eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ...`
- Status:** 404 Not Found, 100 ms, 358 B
- Body:** JSON response:

```
1 {
2   "type": "https://tools.ietf.org/html/rfc7231#section-6.5.4",
3   "title": "Not Found",
4   "status": 404,
5   "traceId": "00-ec42b609a2fb2916ba093d440937bde9-fb0b18fa589fd44f-00"
6 }
```

SUBO EL CÓDIGO A GIT

https://github.com/JuanCarlosVelasquez/Practica2_Uso_de_Postman.git



EXPORTO LOS PROYECTOS DE POSTAMAN

PATRONES DE DISEÑO DE APIS > Taller 2 > PROYECTO DE POSTMAN					Buscar en
<input type="checkbox"/> Nombre	Fecha de modificación	Tipo	Tamaño		
<input type="checkbox"/> ApiTasks.postman_collection.json	15/9/2023 22:11	Archivo JSON	14 KB		
<input type="checkbox"/> ApiUsers.postman_collection.json	15/9/2023 22:11	Archivo JSON	3 KB		

SUBO EL CODIGO DE LAS APIS USADADAS

UPS > PATRONES DE DISEÑO DE APIS > Taller 2 > CODIGO APIS REST FULL .NET 7 >					
<input type="checkbox"/> Nombre	Fecha de modificación	Tipo	Ti		
<input type="checkbox"/> apiTasks	15/9/2023 22:12	Carpeta de archivos			
<input type="checkbox"/> apiUsers	15/9/2023 22:12	Carpeta de archivos			