



ESPE

UNIVERSIDAD DE LAS FUERZAS ARMADAS

INNOVACIÓN PARA LA EXCELENCIA

Tema

DOCUMENTACIÓN “GESTIÓN ACADÉMICA DEL
INSTITUTO NACIONAL MEJÍA”

Asignatura

DESARROLLO DE APLICACIONES WEB

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TEAM 1 CANGRECODERS API DOCUMENTATION

CRUD STUDENTS

-Get all

Método	GET
URI	http://34.125.28.37:3003/educationsystem/usuarios
Parámetros	N/A
Formato	JSON
Devuelve	<pre>[{"_id": "62f493647ef76522e1b08df8", "idCedula": "1000253525", "user": "plopez", "password": "1714142195", "name": "Pancho", "lastName": "Lopez", "type_user": "Alumno", "status": "Activo"}, {"_id": "62f4b2e4abc7f9ad4e8bc8ea", "idCedula": "1500894562", "user": "kcazares", "password": "1500894562", "name": "Karla", "lastName": "Cazares", "type_user": "Docente", "status": "Activo"}]</pre>

-Get users by type_user (users, students, teachers)

Método	GET
URI	http://34.125.28.37:3003/educationsystem/type_user
Parámetros	type user : usuarios, estudiantes, profesores
Formato	JSON
Devuelve	

Método	POST
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URI	http://34.125.165.209:5000/academic/student
Parámetros	{ "id": int, "name": string, "role": string, "average":float }
Formato	JSON
Devuelve	<pre>1 { 2 "average": 19.5, 3 "id": 7, 4 "name": "Mickaela Carrera", 5 "role": "Student" 6 }</pre>

Método	PUT
URI	http://34.125.165.209:5000/academic/student/id
Parámetros	{ "id": int, "name": string, "role": string, "average":float }
Formato	JSON
Devuelve	<pre>{ "message": "Student was updated sucessfully" }</pre>



Método	DELETE
URI	http://34.125.165.209:5000/academic/student/id
Parámetros	id
Formato	JSON
Devuelve	<pre>{ "message": "client 7 was deleted sucessfully" }</pre>

CRUD DOCENTE

Método	GET
URI	http://34.125.28.37:3003/educationsystem/usuarios
Parámetros	N/A
Formato	JSON



Devuelve	<pre>{ "_id": { "\$oid": "62e716b3d0bb4ea0ce44bdfb" }, "id": 1, "name": "Steven Cardenas", "role": "student", "average": 19.5 },</pre>
----------	--

Método	GET
URI	http://34.125.165.209:5000/academic/student/id
Parámetros	id for each student
Formato	JSON
Devuelve	<pre>{ "_id": { "\$oid": "62ea03b877612df811631d96" }, "id": 5, "name": "Fernando Carrera", "role": "Teacher", "average": 19.2 }</pre>

Método	POST
URI	http://34.125.165.209:5000/academic/student



Parámetros	<pre>{ "id": int, "name": string, "role": string, "average":float }</pre>
Formato	JSON
Devuelve	<pre>1 { 2 "average": 19.5, 3 "id": 7, 4 "name": "Mickaela Carrera", 5 "role": "Student" 6 }</pre>

Método	PUT
URI	http://34.125.165.209:5000/academic/student/id
Parámetros	<pre>{ "id": int, "name": string, "role": string, "average":float }</pre>
Formato	JSON
Devuelve	<pre>{ "message": "Student was updated sucessfully" }</pre>

Método	DELETE
--------	--------



URI	http://34.125.165.209:5000/academic/student/id
Parámetros	id
Formato	JSON
Devuelve	<pre>{ "message": "client 7 was deleted sucessfully" }</pre>

CRUD USERS

Método	GET
URI	http://34.125.28.37:3003/educationsystem/usuarios
Parámetros	N/A
Formato	JSON
Devuelve	<pre>{ "_id": { "\$oid": "62e716b3d0bb4ea0ce44bdfb" }, "id": 1, "name": "Steven Cardenas", "role": "student", "average": 19.5 },</pre>



Método	GET
URI	http://34.125.165.209:5000/academic/student/id
Parámetros	id for each student
Formato	JSON
Devuelve	<pre>{ "_id": { "\$oid": "62ea03b877612df811631d96" }, "id": 5, "name": "Fernando Carrera", "role": "Teacher", "average": 19.2 }</pre>

Método	POST
URI	http://34.125.165.209:5000/academic/student
Parámetros	<pre>{ "id": int, "name": string, "role": string, "average": float }</pre>
Formato	JSON



Devuelve	<pre>1 { 2 "average": 19.5, 3 "id": 7, 4 "name": "Mickaela Carrera", 5 "role": "Student" 6 }</pre>
----------	--

Método	PUT
URI	http://34.125.165.209:5000/academic/student/id
Parámetros	<pre>{ "id": int, "name": string, "role": string, "average": float }</pre>
Formato	JSON
Devuelve	<pre>{ "message": "Student was updated sucessfully" }</pre>

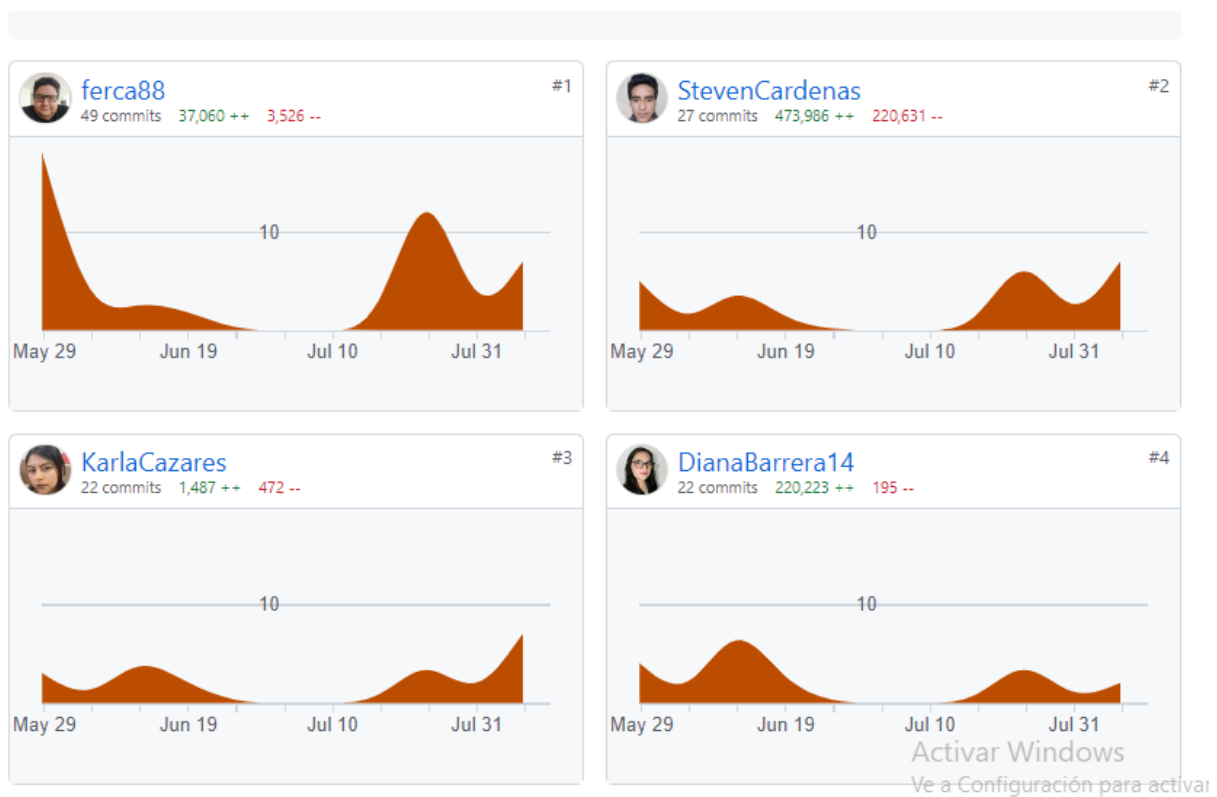
Método	DELETE
URI	http://34.125.165.209:5000/academic/student/id
Parámetros	id
Formato	JSON



Devuelve	<pre>"message": "client 7 was deleted sucessfully"</pre>
----------	--

Rubric:

ord.	Evaluation deliverable	grade (points)
1	GitHub collaboration (individual effort)	1



2	Design (sketches) of the web pages (updated from Act 3)	0.5
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Login

The diagram illustrates a vertical stack of four UI components. At the top is a light gray rectangular box labeled "Logo". Below it are two identical white rectangular boxes, each labeled "Text". At the bottom is a blue rectangular box labeled "Button". All components are centered horizontally and have a thin blue border.

USERS

The screenshot displays a web application interface. At the top, there is a horizontal menu bar containing five buttons: "SYSTEM MENU", "USERS", "STUDENTS", "TEACHERS", and "SIGN OUT". Below this menu bar, centered, is a button labeled "GET USERS INFORMATION". Underneath that is another button labeled "INFORMATION FROM API". The main area of the page features a large, light-blue rectangular box with the text "INFORMATION FROM USERS" centered inside it. To the right of this large box, there is a vertical stack of six identical pairs of buttons. Each pair consists of a blue button labeled "UPDATE" followed by a blue button labeled "DELETE".



The diagram illustrates a form layout within a rectangular frame. At the top, a horizontal header bar contains the word "Text" centered. Below this header, the form is organized into two columns. The left column contains four rectangular boxes, each labeled "Text", stacked vertically. The right column also contains four rectangular boxes, each labeled "Text", stacked vertically. At the bottom center of the form, there is a single rounded rectangular button labeled "Button".

STUDENTS

[illegible]

The diagram illustrates a simple web page layout. At the top is a header bar labeled "Text". Below the header is a main content area. On the left side of the main content area, there are four blue rectangular boxes stacked vertically, each labeled "Text". On the right side, there are two blue rectangular boxes stacked vertically, each labeled "Text". At the bottom center of the main content area is a blue rounded rectangular button labeled "Button".

TEACHERS

```
graph TD
    subgraph Navigation
        direction LR
        SM[SYSTEM MENU]
        U[USERS]
        S[STUDENTS]
        T[TEACHERS]
        SO[SIGN OUT]
    end
    T --> GTI[GET TEACHER INFORMATION]
    GTI --> IFAPI[INFORMATION FROM API]
    IFAPI --> IFTE[INFORMATION FROM TEACHERS]
    IFTE --> U1[UPDATE]
    IFTE --> D1[DELETE]
    IFTE --> U2[UPDATE]
    IFTE --> D2[DELETE]
    IFTE --> U3[UPDATE]
    IFTE --> D3[DELETE]
    IFTE --> U4[UPDATE]
    IFTE --> D4[DELETE]
    IFTE --> U5[UPDATE]
    IFTE --> D5[DELETE]
    IFTE --> U6[UPDATE]
    IFTE --> D6[DELETE]
```

The diagram illustrates the system's structure and user interactions. It features a top navigation bar with buttons for 'SYSTEM MENU', 'USERS', 'STUDENTS', 'TEACHERS', and 'SIGN OUT'. The 'TEACHERS' button leads to a 'GET TEACHER INFORMATION' use case, which in turn leads to an 'INFORMATION FROM API' use case. This API use case then leads to a large 'INFORMATION FROM TEACHERS' use case. To the right of this large use case is a vertical stack of six pairs of 'UPDATE' and 'DELETE' buttons, indicating multiple actions available for the teacher information.



Text

Text

Text

Text

Text

Text

Text

Text

Text

Button

3 Web Clients + Web Services (GET) + DB 0.5

-Web Services(GET):

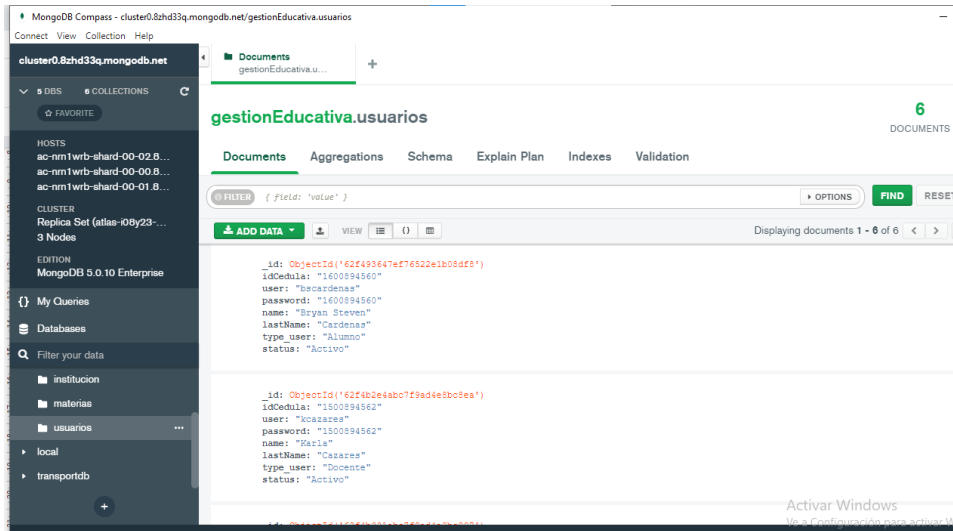
```
http://34.125.28.37:3003/educati...  
No seguro | 34.125.28.37:3003/educationsystem/usuarios  
[  
  {  
    _id: "62f493647ef76522e1b08df8",  
    idCedula: "1000253525",  
    user: "plopez",  
    password: "1714142195",  
    name: "Pancho",  
    lastName: "Lopez",  
    type_user: "Alumno",  
    status: "Activo"  
  },  
  {  
    _id: "62f4b2e4abc7f9ad4e8bc8ea",  
    idCedula: "1500894562",  
    user: "kcazares",  
    password: "1500894562",  
    name: "Karla",  
    lastName: "Cazares",  
    type_user: "Docente",  
    status: "Activo"  
  },  
  {  
    _id: "62f4b301abc7f9ad4e8bc997",  
    idCedula: "1022546987",  
    user: "dbarrera",  
    password: "1022546987",  
    name: "Diana",  
    lastName: "Barrera",  
    type_user: "Administrador",  
    status: "Activo"  
  },  
  {  
    _id: "62f4b31dabc7f9ad4e8bca36",  
    idCedula: "1600894560",  
    user: "bscardenas",  
    password: "1600894560",  
    name: "Steven",  
    lastName: "Cardenas",
```

-DB

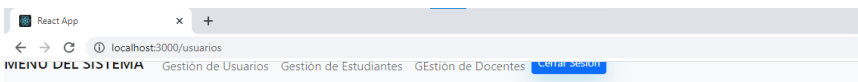


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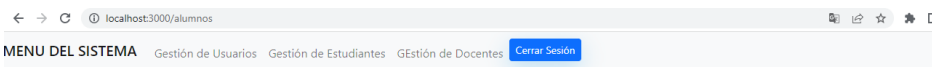
-Web Client Get:



GET USERS INFORMATION FROM API

This shows user information from API: <http://34.125.28.37:3003/educationsystem/usuarios>

id	name	lastname	user	password	type user	status
1000253525	Pancho	Lopez	plopez	1714142195	Alumno	Activo
1500894562	Karla	Cazares	kcazares	1500894562	Docente	Activo
1022546987	Diana	Barrera	dbarrera	1022546987	Administrador	Activo
1600894560	Steven	Cardenas	bscardenas	1600894560	Alumno	Activo
1714142195	Alexandra Mercedes	Auquilla Bueno	amauquillab	1714142195	Alumno	Activo
1711990836	Fernando	Carrera	jfcarrera	1711990836	Administrador	Activo
1600444444	Mishell	Cardenas	mecardenas	1600943243777	Alumno	Activo
1707922447	Diego	Jimenez	dejimenez	87654321	alumno	activo
0706024932	karla g	cazares c	kg	1234	docente	activo



Students list

Insert student

This shows students information from API: <http://34.125.28.37:3003/educationsystem/students>

id	name	lastname	user	password	type user	status		
1600894560	Steven	Cardenas	bscardenas	1600894560	Alumno	Activo	Editar	Borrar
1714142195	Alexandra Mercedes	Auquilla Bueno	amauquillab	1714142195	Alumno	Activo	Editar	Borrar
1600444444	Mishell	Cardenas	mecardenas	1600943243777	Alumno	Activo	Editar	Borrar
1717171717	Maria	Lescano	islescano	1600943243	Alumno	Activo	Editar	Borrar



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← → ↻ localhost:3000/profesores

MENU DEL SISTEMA Gestión de Usuarios Gestión de Estudiantes Gestión de Docentes Cerrar Sesión

Teachers list

Insert teacher

This shows students information from API: http://34.125.28.37:3003/educationsystem/profesores

id	name	lastname	user	password	type user	status		
0706024932	Karla	Cazares	kgcazares	1500894562	Docente	Activo	Editar	Borrar
123	Juanita	a	a	12	Docente	activo	Editar	Borrar

4 Web Clients + Web Services (PUT, POST) + DB 1

-POST:

Form:

← → ↻ localhost:3000/alumnos#control

localhost:3000 dice
Se ha registrado con exito a Jhon Reino

Acceptar

Complete todos los campos para registrar al Estudiante

Cédula Estudiante *

1000000052

Nombre de usuario *

jlrreino

Contraseña *

1000000052

Nombres del estudiante *

Jhon

Apellidos del estudiante *

Reino

Tipo de usuario *

Alumno

Status *

Activo

Registrar Estudiante

We can see that it was inserted correctly

← → ↻ localhost:3000/alumnos

MENU DEL SISTEMA Gestión de Usuarios Gestión de Estudiantes Gestión de Docentes Cerrar Sesión

Students list

Insert student

This shows students information from API: http://34.125.28.37:3003/educationsystem/students

id	name	lastname	user	password	type user	status		
1600894560	Steven	Cardenas	bcardenas	1600894560	Alumno	Activo	Editar	Borrar
1714142195	Alexandra Mercedes	Auquilla Bueno	amauquillab	1714142195	Alumno	Activo	Editar	Borrar
1600444444	Mishell	Cardenas	mecardenas	1600943243777	Alumno	Activo	Editar	Borrar
1717171717	Maria	Lescano	islescano	1600943243	Alumno	Activo	Editar	Borrar
1000000052	Jhon	Reino	jlrreino	1000000052	Alumno	Activo	Editar	Borrar



ac-nm1wrb-shard-00-01.8...
CLUSTER
Replica Set (atlas-i08y23-...
3 Nodes
EDITION
MongoDB 5.0.10 Enterprise

My Queries
Databases
Filter your data
institucion
materias
usuarios
local
transportdb

FILTER { field: 'value' }

ADD DATA VIEW

```
{
  "_id": ObjectId('62f5b41b8264763952a9b91d'),
  "idCedula": "123",
  "user": "a",
  "password": "12",
  "name": "Juanita",
  "lastName": "a",
  "type_user": "Docente",
  "status": "activo"
}
```

```
{
  "_id": ObjectId('62f5b8118264763952a9ce61'),
  "idCedula": "1000000052",
  "user": "jrlreino",
  "password": "10000000052",
  "name": "Jhon",
  "lastName": "Reino",
  "type_user": "Alumno",
  "status": "Activo"
}
```

-PUT:

Clicking on edit opens a new window with the url plus the idCedula and with the information taken through a post from the user to facilitate editing

1000000052	Jhon	Reino	jrlreino	1000000052	Alumno	Activo	Editar	Borrar
------------	------	-------	----------	------------	--------	--------	--------	--------

localhost:3000/alumnos/1000000052

Volver a listar alumnos

REGISTRO DE ESTUDIANTES

Complete todos los campos para registrar al Estudiante

Cédula Estudiante *	Nombre de usuario *
1000000052	jrlreino
Contraseña *	
1000000052	
Nombres del estudiante *	Apellidos del estudiante *
Jhon	Reino
Tipo de usuario *	Status *
Alumno	Activo
Registrar Estudiante	



← → ↻ localhost:3000/alumnos/1000000052

localhost:3000 dice
Student with id: 1000007777 was updated.

Aceptar

Complete todos los campos para registrar al Estudiante

Cédula Estudiante *	Nombre de usuario *
1000007777	jrlreino
Contraseña *	
1000000052	
Nombres del estudiante *	Apellidos del estudiante *
Alberto	Reino
Tipo de usuario *	Status *
Alumno	Inactivo
Registrar Estudiante	

We can see that it is updated correctly



Students list

[Insert student](#)

This shows students information from API: <http://34.125.28.37:3003/educationsystem/students>

id	name	lastname	user	password	type user	status		
1600894560	Steven	Cardenas	bscardenas	1600894560	Alumno	Activo	Editar	Borrar
1714142195	Alexandra Mercedes	Auquilla Bueno	amauquillab	1714142195	Alumno	Activo	Editar	Borrar
1600444444	Mishell	Cardenas	mecardenas	1600943243777	Alumno	Activo	Editar	Borrar
1717171717	Maria	Lescano	islescano	1600943243	Alumno	Activo	Editar	Borrar
1000007777	Alberto	Reino	jrlreino	1000000052	Alumno	Inactivo	Editar	Borrar

Replica Set (atlas-i08y23-...)
3 Nodes

EDITION
MongoDB 5.0.10 Enterprise

[My Queries](#)

[Databases](#)

[Filter your data](#)

- [institucion](#)
- [materias](#)
- [usuarios](#)
- [local](#)
- [transportdb](#)

[ADD DATA](#) [VIEW](#) [{}](#) [\[\]](#)

```
_id: ObjectId('62f5b41b8264763952a9b91d')
idCedula: "123"
user: "a"
password: "12"
name: "Juanita"
lastName: "a"
type_user: "Docente"
status: "activo"
```

[▶](#)

```
_id: ObjectId('62f5b8118264763952a9ce61')
idCedula: "1000007777"
user: "jrlreino"
password: "1000000052"
name: "Alberto"
lastName: "Reino"
type_user: "Alumno"
status: "Inactivo"
```

5 Web Clients + Web services(DELETE) + DB 1

Clicking on delete calls the delete api and it is deleted from the database and from the consumption of our get

1000007777	Alberto	Reino	jrlreino	1000000052	Alumno	Inactivo	Editar	Borrar
------------	---------	-------	----------	------------	--------	----------	------------------------	------------------------



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localhost:3000 dice
Student with id 1000007777 was deleted!

Aceptar

Students list

Insert student

This shows students information from API: http://34.125.28.37:3003/educationsystem/students

id	name	lastname	user	password	type user	status		
1600894560	Steven	Cardenas	bscardenas	1600894560	Alumno	Activo	Editar	Borrar
1714142195	Alexandra Mercedes	Auquilla Bueno	amauquillab	1714142195	Alumno	Activo	Editar	Borrar
1600444444	Mishell	Cardenas	mecardenas	1600943243777	Alumno	Activo	Editar	Borrar
1717171717	Maria	Lescano	islescano	1600943243	Alumno	Activo	Editar	Borrar
1000007777	Alberto	Reino	jlrreino	1000000052	Alumno	Inactivo	Editar	Borrar

Students list

Insert student

This shows students information from API: http://34.125.28.37:3003/educationsystem/students

id	name	lastname	user	password	type user	status		
1600894560	Steven	Cardenas	bscardenas	1600894560	Alumno	Activo	Editar	Borrar
1714142195	Alexandra Mercedes	Auquilla Bueno	amauquillab	1714142195	Alumno	Activo	Editar	Borrar
1600444444	Mishell	Cardenas	mecardenas	1600943243777	Alumno	Activo	Editar	Borrar
1717171717	Maria	Lescano	islescano	1600943243	Alumno	Activo	Editar	Borrar

Replica Set (atlas-i08y23-...

3 Nodes

EDITION

MongoDB 5.0.10 Enterprise

{ } My Queries

Databases

Filter your data

institucion

materias

usuarios

local

transportdb

+

ADD DATA

VIEW

{ }

Table

```
{
  "_id": ObjectId("62f5b24e8264763952a9adce"),
  "idCedula": "1717171717",
  "user": "islescano",
  "password": "1600943243",
  "name": "Maria",
  "lastName": "Lescano",
  "type_user": "Alumno",
  "status": "Activo"
}
```

▶

```
{
  "_id": ObjectId("62f5b41b8264763952a9b91d"),
  "idCedula": "123",
  "user": "a",
  "password": "12",
  "name": "Juanita",
  "lastName": "a",
  "type_user": "Docente",
  "status": "activo"
}
```