# OBLIGATORIO 1 - SmartHome

## Diseño 2

# Evidencia de la ejecución de las pruebas de la API con Postman

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### Universidad ORT Uruguay

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# Índice

# Abstract

Utilizando la herramienta Postman, cada prueba fue documentada con los datos de entrada, la salida esperada y la salida obtenida, lo que facilitó la validación del correcto desempeño del sistema. Asimismo, se presentó evidencia a través de un video en YouTube, en el cual se llevaron a cabo pruebas relevantes utilizando Postman. Este video constituye un recurso visual que enriquece las pruebas detalladas, ofreciendo una mirada completa de la aplicación y su funcionamiento.

# Especificación de casos de prueba

| Caso de prueba | Endpoint | Entrada | Salida esperada | Salida obtenida |
|---|---|---|---|---|
| Login de usuario exitoso | POST /auth | {<br>  "Email" : "sa@smarthome.com",<br>  "Password" : "sA$a1234"<br>} | {<br>  "innerCode": "OK",<br>  "message": "Operation was successfully performed",<br>  "data": {<br>    "token": "7f4f4707-e3e9-42c8-879a-29d77e3c2e7b"<br>  }<br>} | {<br>  "innerCode": "OK",<br>  "message": "Operation was successfully performed",<br>  "data": {<br>    "token": "7f4f4707-e3e9-42c8-879a-29d77e3c2e7b"<br>  }<br>} |
| Login de usuario no exitoso | POST /auth | {<br>  "Email" : "user@noexistente.com",<br>  "Password" : "sA$a1234"<br>} | {<br>  "innerCode": "BadRequest",<br>  "message": "Argument is invalid",<br>  "details": "Failed to authenticate"<br>} | {<br>  "innerCode": "BadRequest",<br>  "message": "Argument is invalid",<br>  "details": "Failed to authenticate"<br>} |
| Crear cuenta de administrador éxito con sesión | POST /users | {<br>  "Name" : "Alejo",<br>  "Role" : "admin",<br>  "Email" : | {<br>  "innerCode": "Created",<br>  "message": "User | {<br>  "innerCode": "Created",<br>  "message": "User |

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| iniciada | | "alejo@admin22Smarthome.com",<br>  "Lastname" : "Fraga",<br>  "Password" : "@asdAsdas1231231231!"<br>} | was successfully created",<br>  "data": {<br>    "name": "Alejo",<br>    "lastname": "Fraga",<br>    "fullname": "Alejo Fraga",<br>    "role": "admin",<br>"accountCreationDate": "2024-10-08"<br>  }<br>} | was successfully created",<br>  "data": {<br>    "name": "Alejo",<br>    "lastname": "Fraga",<br>    "fullname": "Alejo Fraga",<br>    "role": "admin",<br>"accountCreationDate": "2024-10-08"<br>  }<br>} |
| Crear cuenta de administrador sin éxito (usuario ya existente) con sesión iniciada | POST /users | {<br>  "Name" : "Alejo",<br>  "Role" : "admin",<br>  "Email" : "alejo@admin22Smarthome.com",<br>  "Lastname" : "Fraga",<br>  "Password" : "@asdAsdas1231231231!"<br>} | {<br>  "innerCode": "Conflict",<br>  "message": "A conflict occurred with existing resources",<br>  "details": "Email already in use"<br>} | {<br>  "innerCode": "Conflict",<br>  "message": "A conflict occurred with existing resources",<br>  "details": "Email already in use"<br>} |
| Borrar cuenta de administrador (previamente se registró el administrador especificado) | DELETE /users | {<br>  "Email" : "alejo@admin22Smarthome.com"<br>} | {<br>  "innerCode": "OK",<br>  "message": "Operation was successfully performed",<br>  "details": "User alejo@admin22Smarthome.com deleted successfully"<br>} | {<br>  "innerCode": "OK",<br>  "message": "Operation was successfully performed",<br>  "details": "User alejo@admin22Smarthome.com deleted successfully"<br>} |

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| borrado de administrador (usuario inexistente) sin éxito | DELETE /users | {<br>    "Email" :<br>"unexistantaccount.com"<br>} | {<br>    "innerCode":<br>"NotFound",<br>    "message":<br>"Element not found",<br>    "details": "User not found"<br>} | {<br>    "innerCode":<br>"NotFound",<br>    "message":<br>"Element not found",<br>    "details": "User not found"<br>} |
| Crear un dueño de empresa con éxito | POST /users | {<br>    "Name" : "alejo",<br>    "Role" :<br>"companyOwner",<br>    "Email" :<br>"alejoNuevoCO@smarthome.com",<br>    "Lastname" :<br>"fraga",<br>    "Password" :<br>"@asdAsdas1231231231!"<br>} | {<br>    "innerCode":<br>"Created",<br>    "message": "User was successfully created",<br>    "data": {<br>        "name": "alejo",<br>        "lastname":<br>"fraga",<br>        "fullname":<br>"alejo fraga",<br>        "role":<br>"companyOwner",<br><br>"accountCreationDate": "2024-10-08"<br>    }<br>} | {<br>    "innerCode":<br>"Created",<br>    "message": "User was successfully created",<br>    "data": {<br>        "name": "alejo",<br>        "lastname":<br>"fraga",<br>        "fullname":<br>"alejo fraga",<br>        "role":<br>"companyOwner",<br><br>"accountCreationDate": "2024-10-08"<br>    }<br>} |
| Crear un dueño de empresa sin éxito debido a rol invalido | POST /users | {<br>    "Name" : "alejo",<br>    "Role" :<br>"nuevoRol",<br>    "Email" :<br>"alejoNuevoCO@smarthome.com",<br>    "Lastname" :<br>"fraga",<br>    "Password" :<br>"@asdAsdas1231231 | {<br>    "innerCode":<br>"BadRequest",<br>    "message":<br>"Argument is invalid",<br>    "details": "Role must be 'admin' or 'companyOwner' (Parameter 'Role')"<br>} | {<br>    "innerCode":<br>"BadRequest",<br>    "message":<br>"Argument is invalid",<br>    "details": "Role must be 'admin' or 'companyOwner' (Parameter 'Role')"<br>} |

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| | | 231!"<br>} | | |
| Listar todas las cuentas con éxito | GET /users | - | {<br>  "innerCode": "OK",<br>  "message": "Operation was successfully performed",<br>  "data": [<br>todas las cuentas existentes<br>  ]} | {<br>  "innerCode": "OK",<br>  "message": "Operation was successfully performed",<br>  "data": [<br>todas las cuentas existentes<br>  ]} |
| Listar todas las empresas | GET /companies | - | {<br>  "innerCode": "OK",<br>  "message": "Operation was successfully performed",<br>  "data": [<br>    todas las empresas existentes]<br>} | {<br>  "innerCode": "OK",<br>  "message": "Operation was successfully performed",<br>  "data": [<br>    todas las empresas existentes]<br>} |
| Crear una empresa (el usuario ya es dueño de una empresa), sin éxito | POST /companies | {<br>  "Rut" : "121458754847",<br>  "LogoUrl" : "nicelogo.com",<br>  "Name" : "New great company"<br>} | {<br>  "innerCode": "Conflict",<br>  "message": "A conflict occurred with existing resources",<br>  "details": "User already owns a company"<br>} | {<br>  "innerCode": "Conflict",<br>  "message": "A conflict occurred with existing resources",<br>  "details": "User already owns a company"<br>} |
| crear una empresa con éxito | POST /companies | {<br>  "Rut" : "121458751847",<br>  "LogoUrl" : | {<br>  "innerCode": "Created",<br>  "message": | {<br>  "innerCode": "Created",<br>  "message": |

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| | | "nicelogo.com", "Name" : "New great company" } | "Company was successfully created", "data": { "rut": "121458751847" } } | "Company was successfully created", "data": { "rut": "121458751847" } } |
| registrar cámara de seguridad con éxito | POST /cameras | { "Name" : "LaGranCamaraDeLionelAndres", "Description" : "Some description", "ModelNumber" : "33", "Photos" : ["path1"], "CompanyRut" : "111111111111", "HasPersonDetection" : false, "HasMovementDetection" : false, "IsOutdoor" : false, "IsIndoor" : true } | { "innerCode": "Created", "message": "Camera was successfully created", "data": { "modelNumber": "33" } } | { "innerCode": "Created", "message": "Camera was successfully created", "data": { "modelNumber": "33" } } |
| registrar un sensor con éxito | POST /sensors | { "Name": "el sensor", "Description" : "una descripción", "ModelNumber" : "31", "Photos" : ["lafoto1.com"] } | { "innerCode": "Created", "message": "Sensor was successfully created", "data": { "modelNumber": "31" } } | { "innerCode": "Created", "message": "Sensor was successfully created", "data": { "modelNumber": "31" } } |

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| Creación de cuenta para dueño de hogar con éxito | POST /homeowners | { "Email" : "alejo@myNewHome.com", "Password" : "A@!2123asdssd", "Name" : "Alejo", "Lastname" : "Fraga", "ProfilePicturePath" : "path" } | { "innerCode": "Created", "message": "Home owner was successfully created", "data": { "email": "alejo@myNewHome.com", "fullname": "Alejo Fraga", "profilePicturePath": "path", "accountCreationDate": "2024-10-08" } } | { "innerCode": "Created", "message": "Home owner was successfully created", "data": { "email": "alejo@myNewHome.com", "fullname": "Alejo Fraga", "profilePicturePath": "path", "accountCreationDate": "2024-10-08" } } |
| Listar todos los dispositivos registrados | GET /devices | - | { "innerCode": "OK", "message": "Operation was successfully performed", "data": [ todos los dispositivos registrados] } | { "innerCode": "OK", "message": "Operation was successfully performed", "data": [ todos los dispositivos registrados] } |
| Listar tipos de dispositivos soportados | GET /deviceTypes | - | { "innerCode": "OK", "message": "Operation was successfully performed", "data": [ | { "innerCode": "OK", "message": "Operation was successfully performed", "data": [ |

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| | | | {<br>    "name":<br>"camera"<br>    },<br>    {<br>    "name":<br>"sensor"<br>    }<br>] | {<br>    "name":<br>"camera"<br>    },<br>    {<br>    "name":<br>"sensor"<br>    }<br>] |
| Creacion de un hogar | POST /me/homes | {<br>"Latitude" : "62",<br>"Longitude" :<br>"-50",<br>"Address" :<br>"Golden Street",<br>"DoorNumber" :<br>"821",<br>"MemberCount" :<br>"50"<br>} | {<br>"innerCode":<br>"Created",<br>"message": "Home<br>was successfully<br>created",<br>"data": {<br>"homeId":<br>"7ab88924-a631-430<br>0-b7f5-7ca7d477923c<br>"<br>}<br>} | {<br>"innerCode":<br>"Created",<br>"message": "Home<br>was successfully<br>created",<br>"data": {<br>"homeId":<br>"7ab88924-a631-430<br>0-b7f5-7ca7d477923c<br>"<br>}<br>} |
| agregar miembro a un hogar | PATCH /homes/{homeId}/members | {<br>"UserEmail" :<br>"seba@myNewHome<br>.com"<br>} | {<br>"innerCode":<br>"OK",<br>"message":<br>"Member added to<br>home successfully",<br>"data": {<br>"memberId":<br>"1318d883-9bfe-4c79<br>-b1eb-953229f09aae"<br>}<br>} | {<br>"innerCode":<br>"OK",<br>"message":<br>"Member added to<br>home successfully",<br>"data": {<br>"memberId":<br>"1318d883-9bfe-4c79<br>-b1eb-953229f09aae"<br>}<br>} |
| Asociar dispositivos a un hogar | PATCH /homes/{homeId}/hardwares | {<br>"ModelNumber" :<br>"31",<br>"IsConnected" :<br>false<br>} | {<br>"innerCode":<br>"OK",<br>"message":<br>"Device added to<br>home successfully", | {<br>"innerCode":<br>"OK",<br>"message":<br>"Device added to<br>home successfully", |

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| | | ███████ | `"data": {`<br>`    "hardwareId":`<br>`generated ID`<br>`    }`<br>`}` | `"data": {`<br>`    "hardwareId":`<br>`"10544524-dc80-42b`<br>`b-b88b-03c101a3cd6`<br>`7"`<br>`    }`<br>`}` |
| Obtener miembros de un hogar | GET /homes/{homeId}/members | - | `{`<br>`  "innerCode":`<br>`"OK",`<br>`  "message":`<br>`"Operation was`<br>`successfully`<br>`performed",`<br>`  "data": [`<br>`    lista de todo los`<br>`miembros`<br>`]`<br>`}` | `{`<br>`  "innerCode":`<br>`"OK",`<br>`  "message":`<br>`"Operation was`<br>`successfully`<br>`performed",`<br>`  "data": [`<br>`    lista de todo los`<br>`miembros`<br>`]`<br>`}` |
| listado de dispositivos de un hogar | homes/{homeId}/hardwares | | `{`<br>`  "innerCode":`<br>`"OK",`<br>`  "message":`<br>`"Operation was`<br>`successfully`<br>`performed",`<br>`  "data": [`<br>`    lista de`<br>`dispositivos del hogar`<br>`]`<br>`}` | `{`<br>`  "innerCode":`<br>`"OK",`<br>`  "message":`<br>`"Operation was`<br>`successfully`<br>`performed",`<br>`  "data": [`<br>`    lista de`<br>`dispositivos del hogar`<br>`]`<br>`}` |

# Evidencia de video de ejecución de pruebas con POSTMAN

Enlace: https://youtu.be/bTnelgxbpFE

**Nota**: la especificación de los casos de prueba no coincide a nivel de entrada y salida con los mostrados en los videos pero el espíritu de las pruebas es similar.

## Colecciones de POSTMAN

Junto con la documentación se encuentra la carpeta 'Collections' que contiene todas las colecciones en formato JSON.

## Declaracion de autoria

Nosotros, Sebastian Vega, Alejo Fraga y Matias Corvetto, declaramos que el trabajo que se presenta en esa obra es de nuestra propia mano. Podemos asegurar que:

• La obra fue producida en su totalidad mientras realizábamos el Primer Obligatorio de Diseno de Aplicaciones 2;

• Cuando hemos consultado el trabajo publicado por otros, lo hemos atribuido con claridad;

• Cuando hemos citado obras de otros, hemos indicado las fuentes. Con excepción de estas citas, la obra es enteramente nuestra;

• En la obra, hemos acusado recibo de las ayudas recibidas;

• Cuando la obra se basa en trabajo realizado conjuntamente con otros, hemos explicado claramente qué fue contribuido por otros, y qué fue contribuido por nosotros;

• Ninguna parte de este trabajo ha sido publicada previamente a su entrega, excepto donde se han realizado las aclaraciones correspondientes.

Sebastián Vega
8/10/24

Aleto Frago
8/10/24

**Matias Corvetto**

**8/10/24**