

Modelos de datos

**RegistrationData:**  
String: username  
String: email  
String: password

**LoginData:**  
String: username or email  
String: password

**UpdateData:**  
String: username  
String: email  
String: password  
String: ProfilePicture

**AssociationData:**  
N: user\_id  
String: sensor\_uuid

**Reading:**  
String: associated\_uuid  
String: date\_time  
Double: gas  
Double: temperature  
String: position

**UserSensors:**  
N: user\_id

Recorridos

**GeoJSONPoint:**  
Literal: POINT  
List[float]: coordinates

**CreateTrack:**  
N: user\_id

**GetUserTracks:**  
N: user\_id

**DeleteTrack:**  
N: track\_id

**GetTrackPoints:**  
N: track\_id

**CreateTrackPoint:**  
N: track\_id  
GeoJSONPoint: position

API

POST: RegistrationData

/v1/users/register

POST: LoginData

/v1/users/login

PUT: UpdateData

/v1/users/update

POST: UserSensors

/v1/users/get\_sensors

POST: AssociationData

/v1/data/bind

POST: Reading

/v1/data/reading

Recorridos

POST: CreateTrack

/v1/recorridos

DELETE: DeleteTrack

/v1/recorridos

POST: CreateTrackPoint

/v1/recorridos/puntos

POST: GetUserTracks

/v1/recorridos/usuario

POST: GetTrackPoints

/v1/recorridos/puntos\_recorrido

Logica negocio

String: username  
String: email  
String: password

insert\_user()

JSON: user / Error

String: user or email  
String: password

login\_user()

JSON: user / Error

String: username  
String: email  
String: password  
String: profilePicture

update\_user()

JSON: user / Error

N: user\_id

get\_user\_sensors()

JSON: sensors / Error

N: user\_id  
String: sensor\_uuid

bind\_sensor\_to\_user()

JSON: sensor / Error

String: associated\_uuid  
String: date\_time  
Double: gas  
Double: temperature  
String: position

add\_reading()

200 OK / Error

Recorridos

N: user\_id

create\_track()

JSON: track\_id / Error

N: track\_id

delete\_track()

JSON: track\_id / Error

N: track\_id

\*: location

create\_punto\_recorrido()

JSON: track / Error

N: user\_id

get\_recorridos\_by\_user()

JSON: track / Error

N: track\_id

get\_puntos\_recorrido()

JSON: points / Error