MongoDB Physical Model

Schema for:

Model name: FightPandemics
Author:
Version: 2
File name: data_model.json
File path: C:\Users\nicol\Dev\fight_pandemics\DataModel\v2\data_model.json
Printed On: Sat Apr 18 2020 13:03:02 GMT-0300 (Horário Padrão de Brasília)
Created with: Hackolade - Visual data modeling for NoSQL and multimodel databases

1. MODEL

1.1 Model FightPandemics

1.1.1 FightPandemics Entity Relationship Diagram
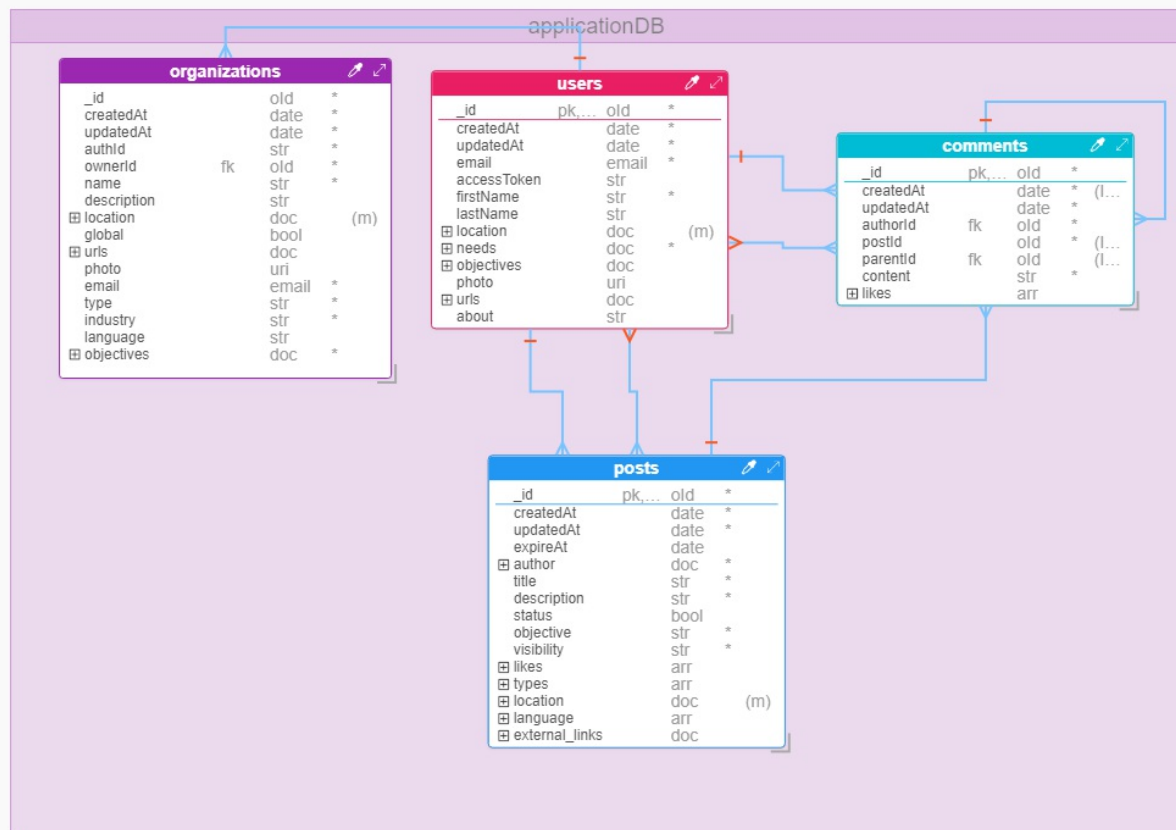
1.1.2 FightPandemics Properties

PROPERTY	VALUE
Model name	FightPandemics
Technical name	
Description	
Author	
Version	2
DB vendor	MongoDB
DB version	v4.2
Comments	

1.1.3 FightPandemics DB Definitions

1.1.3.1 Field location

1.1.3.1.1 location Tree Diagram

```
[...] coordinates
        array

{ABC} type
        string

{ABC} country
        string

{...} location        {ABC} city
    document            string

{ABC} neighborhood
        string

{ABC} address
        string
```
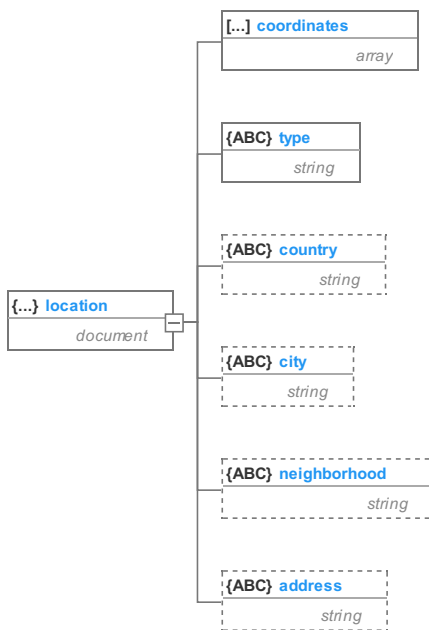
1.1.3.1.2 location Hierarchy

Parent field:
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
coordinates	array	true		Array with the coordinates, specifying **longitude first** and **latitude second**, as default in the GeoJSON definition.	
type	string	true		Type of the GeoJSON Object. Please refer to the official documentation for more information. **In our case, the value will always be of the type "Point".**	
country	string	false		String holding the country's name.	
city	string	false		String holding the city's name.	
neighborhood	string	false		String holding the neighborhood's name.	
address	string	false		String holding the address (street, number and other details).	

1.1.3.1.3 location properties

PROPERTY	VALUE
Name	location
Technical name	
Id	
Type	document
Description	Location document according to the norms of a GeoJSON Object. The fields address, neighborhood, city, state and country are added to store the result of the geoprocessing.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
DBRef	
Min Properties	
Max Properties	
Additional properties	false
Comments	

1.1.3.2 Field coordinates

1.1.3.2.1 coordinates Tree Diagram
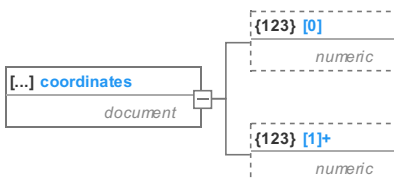
1.1.3.2.2 coordinates Hierarchy

Parent field: **location**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
[0]	numeric	false		Location longitude	
[1]	numeric	false		Location latitude	

1.1.3.2.3 coordinates properties

PROPERTY	VALUE
Name	coordinates
Technical name	
Id	
Type	array
Description	Array with the coordinates, specifying **longitude first** and **latitude second**, as default in the GeoJSON definition.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Min items	2
Max items	2
Unique items	false
Additional items	true
Comments	

1.1.3.3 Field [0]

1.1.3.3.1 [0] Tree Diagram

{123} **[0]**
document

1.1.3.3.2 [0] properties

PROPERTY	VALUE
Id	lng
Type	numeric
Subtype	
Description	Location longitude
Dependencies	
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	0
Unit	degrees
Min value	-180
Excl min	false
Max value	180
Excl max	false
Multiple of	
Divisible by	
Enum	
Sample	35.26
Comments	

1.1.3.4 Field [1]

1.1.3.4.1 [1] Tree Diagram

{123} [1]
document

1.1.3.4.2 [1] properties

PROPERTY	VALUE
Id	lat
Type	numeric
Subtype	
Description	Location latitude
Dependencies	
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	0
Unit	degrees
Min value	-90
Excl min	false
Max value	90
Excl max	false
Multiple of	
Divisible by	
Enum	
Sample	-32.83
Comments	

1.1.3.5 Field type

1.1.3.5.1 type Tree Diagram

{ABC} type
document

1.1.3.5.2 type properties

PROPERTY	VALUE
Name	type
Technical name	
Id	
Type	string
Description	Type of the GeoJSON Object. Please refer to the official documentation for more information. **In our case, the value will always be of the type "Point".**
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	Point
Sample	
Comments	

1.1.3.6 Field country

1.1.3.6.1 country Tree Diagram

{ABC} country
document

1.1.3.6.2 country properties

PROPERTY	VALUE
Name	country
Technical name	
Id	
Type	string
Description	String holding the country's name.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

1.1.3.7 Field city

1.1.3.7.1 city Tree Diagram

{ABC} city
document

1.1.3.7.2 city properties

PROPERTY	VALUE
Name	city
Technical name	
Id	
Type	string
Description	String holding the city's name.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

1.1.3.8 Field neighborhood

1.1.3.8.1 neighborhood Tree Diagram

{ABC} neighborhood
document

1.1.3.8.2 neighborhood properties

PROPERTY	VALUE
Name	neighborhood
Technical name	
Id	
Type	string
Description	String holding the neighborhood's name.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

1.1.3.9 Field address

1.1.3.9.1 address Tree Diagram

```
{ABC} address
    document
```

1.1.3.9.2 address properties

PROPERTY	VALUE
Name	address
Technical name	
Id	
Type	string
Description	String holding the address (street, number and other details).
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

1.1.3.10 Field organization

1.1.3.10.1 organization Tree Diagram

{_id} _id

objectId

{ABC} name

string

{ABC} description

string

{ABC} address

string

location

ref: location (m)

document

{0/1} global

boolean

{...} organization

document

{...} urls

document

{ABC} photo

uri

{ABC} email

email

{ABC} type

string

{ABC} industry

string

{ABC} language

string

{...} objectives

document
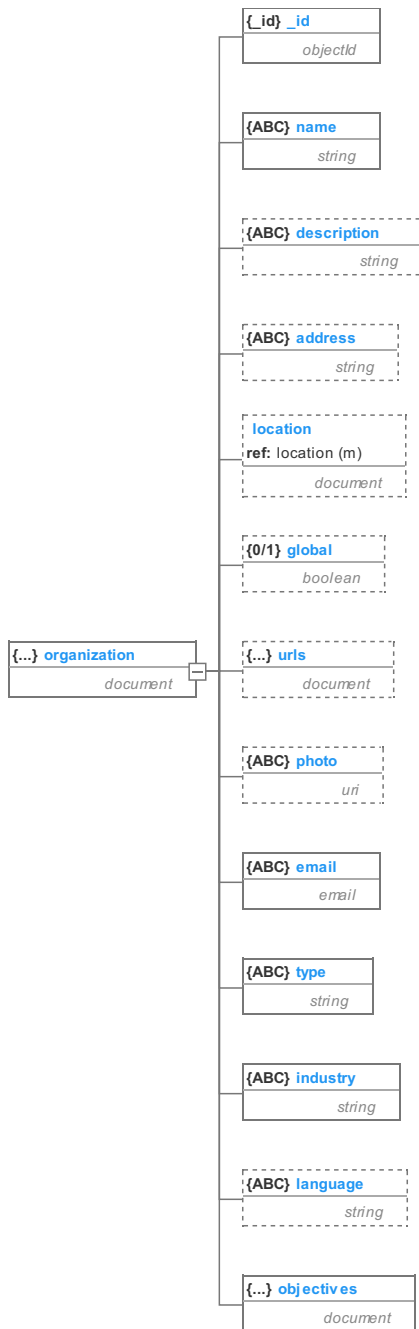
1.1.3.10.2 organization Hierarchy

Parent field:
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
_id	objectId	true		Automatically generated _id.	
name	string	true		Organization's name.	
description	string	false		Small description of the organization (limited to 100 char).	
address	string	false		Organization's address.	
location	reference	false			
global	boolean	false		Flag to indicate wheter this organization is global.	
urls	document	false		Document holding external urls and refs to the organization such as social media profiles.	
photo	string	false		URI with the location of the profile's photo.	
email	string	true		Organization's email	
type	string	true		The type of the organization. Can be: Community, Government, Health care provider, Non-profit, Other, R&D, Startup, Traditional Company and University. All names are store in lowercase only.	
industry	string	true		Industry from which the organization participates. Plan is for this values to be scraped from linkedin industries.	
language	string	false		Field to inidicate the language used by the organization.	
objectives	document	true		Document with what are the objectives of the organization through the application, such as finding volunteers, staff, investors and donors.	

1.1.3.10.3 organization properties

PROPERTY	VALUE
Name	organization
Technical name	
Id	
Type	document
Description	Document representing an organization controlled by an user. This document is always embedded in a user.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
DBRef	
Min Properties	
Max Properties	
Additional properties	false
Comments	

1.1.3.11 Field _id

1.1.3.11.1 _id Tree Diagram

```
{_id}  _id
        document
```

1.1.3.11.2 _id properties

PROPERTY	VALUE
Name	_id
Technical name	
Id	
Type	objectId
Description	Automatically generated _id.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Sample	
Comments	

1.1.3.12 Field name

1.1.3.12.1 name Tree Diagram

```
{ABC}  name
        document
```

1.1.3.12.2 name properties

PROPERTY	VALUE
Name	name
Technical name	
Id	
Type	string
Description	Organization's name.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

1.1.3.13 Field description

1.1.3.13.1 description Tree Diagram

{ABC} **description**
document

1.1.3.13.2 description properties

PROPERTY	VALUE
Name	description
Technical name	
Id	
Type	string
Description	Small description of the organization (limited to 100 char).
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

1.1.3.14 Field address

1.1.3.14.1 address Tree Diagram

{ABC} **address**
document

1.1.3.14.2 address properties

PROPERTY	VALUE
Name	address
Technical name	
Id	
Type	string
Description	Organization's address.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

1.1.3.15 Field location

1.1.3.15.1 location Tree Diagram

location
ref: location (m)
document

1.1.3.15.2 location properties

PROPERTY	VALUE
Name	location
$ref	#model/definitions/location
Reference type	model

1.1.3.16 Field global

1.1.3.16.1 global Tree Diagram

{0/1} global
document

1.1.3.16.2 global properties

PROPERTY	VALUE
Name	global
Technical name	
Id	
Type	boolean
Description	Flag to indicate wheter this organization is global.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	false
Sample	
Comments	

1.1.3.17 Field urls

1.1.3.17.1 urls Tree Diagram

1.1.3.17.2 urls Hierarchy

Parent field: **coordinates**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
linkedin	string	false		URL to organization's Linkedin page.	
twitter	string	false		URL to organization's Twitter page.	
website	string	false		URL to organization's website.	
playstore	string	false		URL to organization's page at Google Play Store.	
appstore	string	false		URL to organization's page at Apple App Store	

1.1.3.17.3 urls properties

PROPERTY	VALUE
Name	urls
Technical name	
Id	
Type	document
Description	Document holding external urls and refs to the organization such as social media profiles.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
DBRef	
Min Properties	
Max Properties	
Additional properties	false
Comments	

1.1.3.18 Field linkedin

1.1.3.18.1 linkedin Tree Diagram

{ABC} linkedin
document

1.1.3.18.2 linkedin properties

PROPERTY	VALUE
Name	linkedin
Technical name	
Id	
Type	string
Description	URL to organization's Linkedin page.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	uri
Enum	
Sample	http://linkedin.com/in/myProfile
Comments	

1.1.3.19 Field twitter

1.1.3.19.1 twitter Tree Diagram

{ABC} twitter
document

1.1.3.19.2 twitter properties

PROPERTY	VALUE
Name	twitter
Technical name	
Id	
Type	string
Description	URL to organization's Twitter page.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	uri
Enum	
Sample	http://twitter.com/myProfile
Comments	

1.1.3.20 Field website

1.1.3.20.1 website Tree Diagram

{ABC} website
document

1.1.3.20.2 website properties

PROPERTY	VALUE
Name	website
Technical name	
Id	
Type	string
Description	URL to organization's website.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	uri
Enum	
Sample	http://mypersonalwebsite.com
Comments	

1.1.3.21 Field playstore

1.1.3.21.1 playstore Tree Diagram

```
{ABC} playstore
        document
```

1.1.3.21.2 playstore properties

PROPERTY	VALUE
Name	playstore
Technical name	
Id	
Type	string
Description	URL to organization's page at Google Play Store.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	uri
Enum	
Sample	http://playstore.com/myOrg
Comments	

1.1.3.22 Field appstore

1.1.3.22.1 appstore Tree Diagram

```
{ABC} appstore
        document
```

1.1.3.22.2 appstore properties

PROPERTY	VALUE
Name	appstore
Technical name	
Id	
Type	string
Description	URL to organization's page at Apple App Store
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	uri
Enum	
Sample	http://appstore.com/myOrg
Comments	

1.1.3.23 Field photo

1.1.3.23.1 photo Tree Diagram

```
{ABC} photo
      document
```

1.1.3.23.2 photo properties

PROPERTY	VALUE
Name	photo
Technical name	
Id	
Type	string
Description	URI with the location of the profile's photo.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	uri
Enum	
Sample	
Comments	

1.1.3.24 Field email

1.1.3.24.1 email Tree Diagram

```
{ABC} email
        document
```

1.1.3.24.2 email properties

PROPERTY	VALUE
Name	email
Technical name	
Id	
Type	string
Description	Organization's email
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	email
Enum	
Sample	
Comments	

1.1.3.25 Field type

1.1.3.25.1 type Tree Diagram

```
{ABC} type
        document
```

1.1.3.25.2 type properties

PROPERTY	VALUE
Name	type
Technical name	
Id	
Type	string
Description	The type of the organization. Can be: Community, Government, Health care provider, Non-profit, Other, R&D, Startup, Traditional Company and University. All names are store in lowercase only.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	startup,traditional company,community,government,r&d,non-profit,university,health care provider,other
Sample	
Comments	

1.1.3.26 Field industry

1.1.3.26.1 industry Tree Diagram

{ABC} industry
document

1.1.3.26.2 industry properties

PROPERTY	VALUE
Name	industry
Technical name	
Id	
Type	string
Description	Industry from which the organization participates. Plan is for this values to be scraped from linkedin industries.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

1.1.3.27 Field language

1.1.3.27.1 language Tree Diagram

{ABC} language
document

1.1.3.27.2 language properties

PROPERTY	VALUE
Name	language
Technical name	
Id	
Type	string
Description	Field to inidicate the language used by the organization.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

1.1.3.28 Field objectives

1.1.3.28.1 objectives Tree Diagram

1.1.3.28.2 objectives Hierarchy

Parent field: **urls**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
volunteers	boolean	true		Flag to indicate wheter the organization is seeking volunteers through the app.	
donations	boolean	true		Flag to indicate wheter the organization is seeking donations through the app.	
staff	boolean	true		Flag to indicate wheter the organization is seeking staff through the app.	
other	boolean	true		Flag to indicate wheter the organization is seeking other needs through the app.	

1.1.3.28.3 objectives properties

PROPERTY	VALUE
Name	objectives
Technical name	
Id	
Type	document
Description	Document with what are the objectives of the organization through the application, such as finding volunteers, staff, investors and donors.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
DBRef	
Min Properties	
Max Properties	
Additional properties	false
Comments	

1.1.3.29 Field volunteers

1.1.3.29.1 volunteers Tree Diagram

```
{0/1} volunteers
            document
```

1.1.3.29.2 volunteers properties

PROPERTY	VALUE
Name	volunteers
Technical name	
Id	
Type	boolean
Description	Flag to indicate wheter the organization is seeking volunteers through the app.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	false
Sample	true
Comments	

1.1.3.30 Field donations

1.1.3.30.1 donations Tree Diagram

```
{0/1} donations
            document
```

1.1.3.30.2 donations properties

PROPERTY	VALUE
Name	donations
Technical name	
Id	
Type	boolean
Description	Flag to indicate wheter the organization is seeking donations through the app.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	false
Sample	false
Comments	

1.1.3.31 Field staff

1.1.3.31.1 staff Tree Diagram

```
{0/1} staff
            document
```

1.1.3.31.2 staff properties

PROPERTY	VALUE
Name	staff
Technical name	
Id	
Type	boolean
Description	Flag to indicate wheter the organization is seeking staff through the app.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	false
Sample	false
Comments	

1.1.3.32 Field other

1.1.3.32.1 other Tree Diagram

```
{0/1} other
        document
```

1.1.3.32.2 other properties

PROPERTY	VALUE
Name	other
Technical name	
Id	
Type	boolean
Description	Flag to indicate wheter the organization is seeking other needs through the app.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	false
Sample	false
Comments	

2. DATABASES

2.1 Database applicationDB
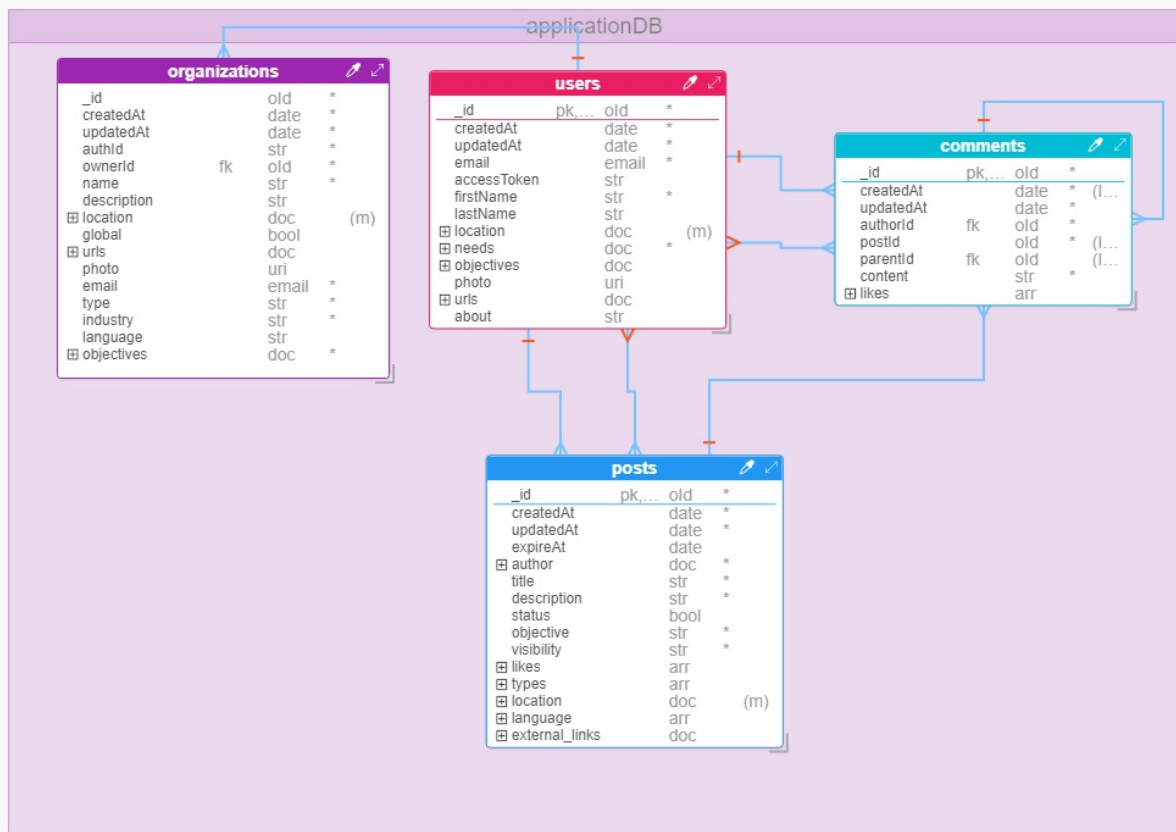
2.1.1 applicationDB Properties

PROPERTY	VALUE
Database name	applicationDB
Technical name	
Enable sharding	
Description	
Comments	

2.1.2 applicationDB Collections

2.1.2.1 Collection comments

2.1.2.1.1 comments Tree Diagram

```
{_id} parentId
(I1.2)        objectId

{ABC} content
              string

[...] likes              {_id} [0]*
      array              objectId
```
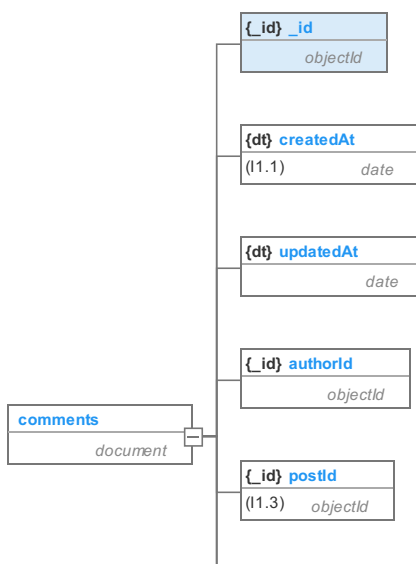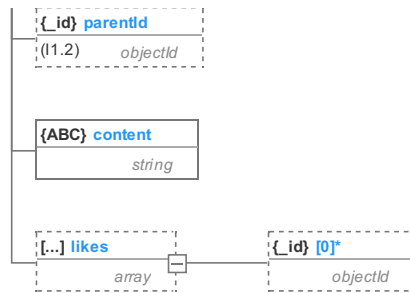
2.1.2.1.2 comments Properties

PROPERTY	VALUE
Collection name	comments
Technical name	
Id	
Description	
Database	applicationDB
Capped	false
Size	
Max	
Storage engine	WiredTiger
Config String	
Validation level	Off
Validation action	Warn
Additional properties	false
Comments	

2.1.2.1.3 comments Fields

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
_id	objectId	true		Automatically generated object_id as primary key.	
createdAt	date	true		Timestamp with the comment's creation date	
updatedAt	date	true		Timestamp with the comment's last update date	
authorId	objectId	true		Id of the user who created the comment.	
postId	objectId	true			
parentId	objectId	false		If the comment is nested (in another comment), this field will hold the _id of the parent comment. Optional field, where being blank means it is a root comment.	
content	string	true		Stirng holding the comment's content.	
likes	array	false		Array holding the user_id of all the users who liked the comment.	
[0]	objectId	false		_id of the user who liked the comment	

2.1.2.1.3.1 Field _id

2.1.2.1.3.1.1 _id Tree Diagram

{_id} _id
document

2.1.2.1.3.1.2 _id properties

PROPERTY	VALUE
Name	_id
Technical name	
Id	
Type	objectId
Description	Automatically generated object_id as primary key.
Dependencies	
Required	true
Primary key	true
Foreign collection	
Foreign field	
Relationship type	
Default	
Sample	
Comments	

2.1.2.1.3.2 Field createdAt

2.1.2.1.3.2.1 createdAt Tree Diagram

{dt} createdAt
(I1.1)   *document*

2.1.2.1.3.2.2 createdAt properties

PROPERTY	VALUE
Name	createdAt
Technical name	
Id	
Type	date
Description	Timestamp with the comment's creation date
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Sample	
Comments	

2.1.2.1.3.3 Field updatedAt

2.1.2.1.3.3.1 updatedAt Tree Diagram

{dt} updatedAt
document

2.1.2.1.3.3.2 updatedAt properties

PROPERTY	VALUE
Name	updatedAt
Technical name	
Id	
Type	date
Description	Timestamp with the comment's last update date
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Sample	
Comments	

2.1.2.1.3.4 Field authorId

2.1.2.1.3.4.1 authorId Tree Diagram

```
{_id} authorId
         document
```

2.1.2.1.3.4.2 authorId properties

PROPERTY	VALUE
Name	authorId
Technical name	
Id	
Type	objectId
Description	Id of the user who created the comment.
Dependencies	
Required	true
Primary key	false
Foreign collection	users
Foreign field	_id
Relationship type	Foreign Key
Default	
Sample	
Comments	

2.1.2.1.3.5 Field postId

2.1.2.1.3.5.1 postId Tree Diagram

```
{_id} postId
(I1.3)  document
```

2.1.2.1.3.5.2 postId properties

PROPERTY	VALUE
Name	postId
Technical name	
Id	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Sample	
Comments	

2.1.2.1.3.6 Field parentId

2.1.2.1.3.6.1 parentId Tree Diagram

{_id} parentId
(l1.2)   *document*

2.1.2.1.3.6.2 parentId properties

PROPERTY	VALUE
Name	parentId
Technical name	
Id	
Type	objectId
Description	If the comment is nested (in another comment), this field will hold the _id of the parent comment. Optional field, where being blank means it is a root comment.
Dependencies	
Required	false
Primary key	false
Foreign collection	comments
Foreign field	_id
Relationship type	Foreign Key
Default	
Sample	
Comments	

2.1.2.1.3.7 Field content

2.1.2.1.3.7.1 content Tree Diagram

{ABC} content
        document

2.1.2.1.3.7.2 content properties

PROPERTY	VALUE
Name	content
Technical name	
Id	
Type	string
Description	Stirng holding the comment's content.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

2.1.2.1.3.8 Field likes

2.1.2.1.3.8.1 likes Tree Diagram
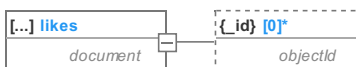
2.1.2.1.3.8.2 likes Hierarchy

Parent field: **comments**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
[0]	objectId	false	fk	_id of the user who liked the comment	

2.1.2.1.3.8.3 likes properties

PROPERTY	VALUE
Name	likes
Technical name	
Id	
Type	array
Description	Array holding the user_id of all the users who liked the comment.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Min items	
Max items	
Unique items	true
Additional items	true
Comments	

2.1.2.1.3.9 Field [0]

2.1.2.1.3.9.1 [0] Tree Diagram

```
{_id} [0]
   document
```

2.1.2.1.3.9.2 [0] properties

PROPERTY	VALUE
Id	
Type	objectId
Description	_id of the user who liked the comment
Dependencies	
Primary key	false
Foreign collection	
Foreign field	
Relationship type	Foreign Key
Default	
Sample	
Comments	

2.1.2.1.4 comments Indexes

PROPERTY	NEW INDEX
Name	New Index
Key	createdAt('ascending'), parentId('ascending'), postId('ascending')
Hashed	
Unique	
Drop duplicates	
Sparse	
Background indexing	
Partial filter exp	
Expire after (seconds)	
Storage engine	WiredTiger
Comments	

2.1.2.2 Collection organizations

2.1.2.2.1 organizations Tree Diagram
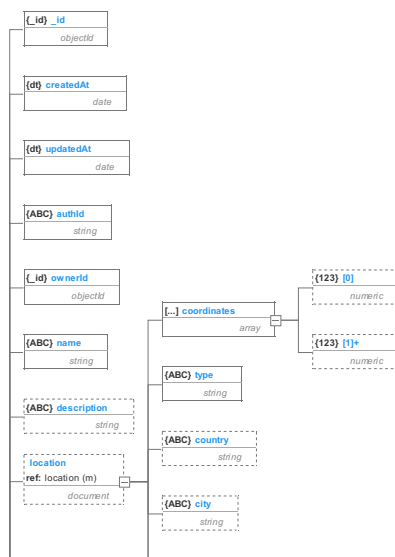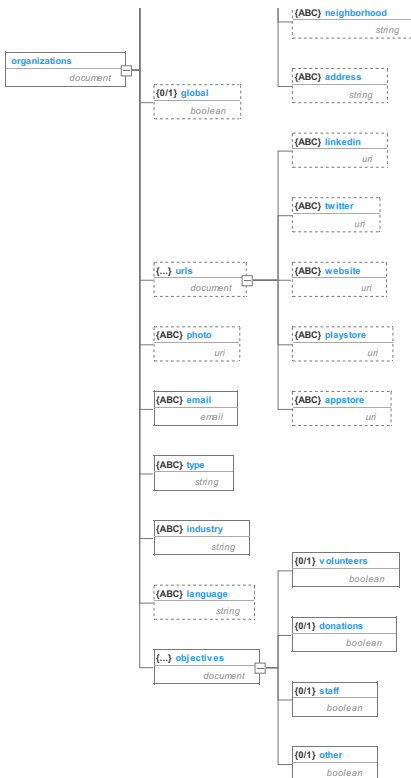
2.1.2.2.2 organizations Properties

PROPERTY	VALUE
Collection name	organizations
Technical name	
Id	
Description	
Database	applicationDB
Capped	false
Size	
Max	
Storage engine	WiredTiger
Config String	
Validation level	Off
Validation action	Warn
Additional properties	false
Comments	

2.1.2.2.3 organizations Fields

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
_id	objectId	true		Automatically generated _id.	
createdAt	date	true		Timestamp with the comment's creation date	
updatedAt	date	true		Timestamp with the comment's last update date	
authId	string	true		String holding the authentication service id (Auth0). This field is a **foreign key to the user in the Auth0 database**, connecting through the user_id field.	
ownerId	objectId	true		_id of the user who owns the organization.	

name	string	true		Organization's name.	
description	string	false		Small description of the organization (limited to 100 char).	
location	document	false		Location document according to the norms of a GeoJSON Object. The fields address, neighborhood, city, state and country are added to store the result of the geoprocessing.	
coordinates	array	true		Array with the coordinates, specifying **longitude first** and **latitude second**, as default in the GeoJSON definition.	
[0]	numeric	false		Location longitude	
[1]	numeric	false		Location latitude	
type	string	true		Type of the GeoJSON Object. Please refer to the official documentation for more information. **In our case, the value will always be of the type "Point".**	
country	string	false		String holding the country's name.	
city	string	false		String holding the city's name.	
neighborhood	string	false		String holding the neighborhood's name.	
address	string	false		String holding the address (street, number and other details).	
global	boolean	false		Flag to indicate wheter this organization is global.	
urls	document	false		Document holding external urls and refs to the organization such as social media profiles.	
linkedin	uri	false		URL to organization's Linkedin page.	
twitter	uri	false		URL to organization's Twitter page.	
website	uri	false		URL to organization's website.	
playstore	uri	false		URL to organization's page at Google Play Store.	
appstore	uri	false		URL to organization's page at Apple App Store	
photo	uri	false		URI with the location of the profile's photo.	
email	email	true		Organization's email	
type	string	true		The type of the organization. Can be: Community, Government, Health care provider, Non-profit, Other, R&D, Startup, Traditional Company and University. All names are store in lowercase only.	

industry	string	true		Industry from which the organization participates. Plan is for this values to be scraped from linkedin industries.	
language	string	false		Field to inidicate the language used by the organization.	
objectives	document	true		Document with what are the objectives of the organization through the application, such as finding volunteers, staff, investors and donors.	
volunteers	boolean	true		Flag to indicate wheter the organization is seeking volunteers through the app.	
donations	boolean	true		Flag to indicate wheter the organization is seeking donations through the app.	
staff	boolean	true		Flag to indicate wheter the organization is seeking staff through the app.	
other	boolean	true		Flag to indicate wheter the organization is seeking other needs through the app.	

2.1.2.2.3.1 Field _id

2.1.2.2.3.1.1 _id Tree Diagram

```
{_id} _id
        document
```

2.1.2.2.3.1.2 _id properties

PROPERTY	VALUE
Name	_id
Technical name	
Id	
Type	objectId
Description	Automatically generated _id.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Sample	
Comments	

2.1.2.2.3.2 Field createdAt

2.1.2.2.3.2.1 createdAt Tree Diagram

```
{dt} createdAt
        document
```

2.1.2.2.3.2.2 createdAt properties

PROPERTY	VALUE
Name	createdAt
Technical name	
Id	
Type	date
Description	Timestamp with the comment's creation date
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Sample	
Comments	

2.1.2.2.3.3 Field updatedAt

2.1.2.2.3.3.1 updatedAt Tree Diagram

{dt} updatedAt
document

2.1.2.2.3.3.2 updatedAt properties

PROPERTY	VALUE
Name	updatedAt
Technical name	
Id	
Type	date
Description	Timestamp with the comment's last update date
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Sample	
Comments	

2.1.2.2.3.4 Field authId

2.1.2.2.3.4.1 authId Tree Diagram

{ABC} authId
document

2.1.2.2.3.4.2 authId properties

PROPERTY	VALUE
Name	authId
Technical name	
Id	
Type	string
Description	String holding the authentication service id (Auth0). This field is a **foreign key to the user in the Auth0 database**, connecting through the user_id field.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

2.1.2.2.3.5 Field ownerId

2.1.2.2.3.5.1 ownerId Tree Diagram

{_id} ownerId
document

2.1.2.2.3.5.2 ownerId properties

PROPERTY	VALUE
Name	ownerId
Technical name	
Id	
Type	objectId
Description	_id of the user who owns the organization.
Dependencies	
Required	true
Primary key	false
Foreign collection	users
Foreign field	_id
Relationship type	Foreign Key
Default	
Sample	
Comments	

2.1.2.2.3.6 Field name

2.1.2.2.3.6.1 name Tree Diagram

{ABC} name
document

2.1.2.2.3.6.2 name properties

PROPERTY	VALUE
Name	name
Technical name	
Id	
Type	string
Description	Organization's name.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

2.1.2.2.3.7 Field description

2.1.2.2.3.7.1 description Tree Diagram

```
{ABC} description
       document
```

2.1.2.2.3.7.2 description properties

PROPERTY	VALUE
Name	description
Technical name	
Id	
Type	string
Description	Small description of the organization (limited to 100 char).
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

2.1.2.2.3.8 Field location

2.1.2.2.3.8.1 location Tree Diagram

location
ref: location (m)

document

2.1.2.2.3.8.2 location properties

PROPERTY	VALUE
Name	location
$ref	#model/definitions/location
Reference type	model

2.1.2.2.3.9 Field global

2.1.2.2.3.9.1 global Tree Diagram

{0/1} global

document

2.1.2.2.3.9.2 global properties

PROPERTY	VALUE
Name	global
Technical name	
Id	
Type	boolean
Description	Flag to indicate wheter this organization is global.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	false
Sample	
Comments	

2.1.2.2.3.10 Field urls

2.1.2.2.3.10.1 urls Tree Diagram
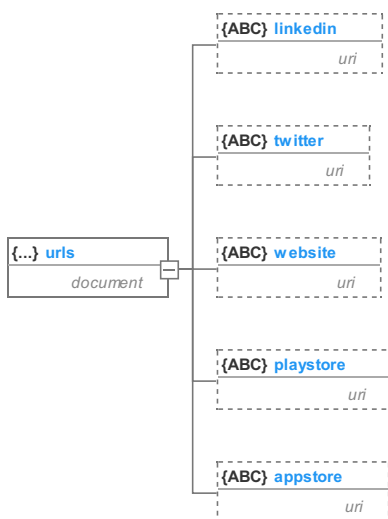
2.1.2.2.3.10.2 urls Hierarchy

Parent field: **coordinates**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
linkedin	string	false		URL to organization's Linkedin page.	
twitter	string	false		URL to organization's Twitter page.	
website	string	false		URL to organization's website.	
playstore	string	false		URL to organization's page at Google Play Store.	
appstore	string	false		URL to organization's page at Apple App Store	

2.1.2.2.3.10.3 urls properties

PROPERTY	VALUE
Name	urls
Technical name	
Id	
Type	document
Description	Document holding external urls and refs to the organization such as social media profiles.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
DBRef	
Min Properties	
Max Properties	
Additional properties	false
Comments	

2.1.2.2.3.11 Field linkedin

2.1.2.2.3.11.1 linkedin Tree Diagram

{ABC} linkedin
document

2.1.2.2.3.11.2 linkedin properties

PROPERTY	VALUE
Name	linkedin
Technical name	
Id	
Type	string
Description	URL to organization's Linkedin page.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	uri
Enum	
Sample	http://linkedin.com/in/myProfile
Comments	

2.1.2.2.3.12 Field twitter

2.1.2.2.3.12.1 twitter Tree Diagram

{ABC} twitter
document

2.1.2.2.3.12.2 twitter properties

PROPERTY	VALUE
Name	twitter
Technical name	
Id	
Type	string
Description	URL to organization's Twitter page.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	uri
Enum	
Sample	http://twitter.com/myProfile
Comments	

2.1.2.2.3.13 Field website

2.1.2.2.3.13.1 website Tree Diagram

{ABC} **website**

document

2.1.2.2.3.13.2 website properties

PROPERTY	VALUE
Name	website
Technical name	
Id	
Type	string
Description	URL to organization's website.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	uri
Enum	
Sample	http://mypersonalwebsite.com
Comments	

2.1.2.2.3.14 Field playstore

2.1.2.2.3.14.1 playstore Tree Diagram

{ABC} playstore
document

2.1.2.2.3.14.2 playstore properties

PROPERTY	VALUE
Name	playstore
Technical name	
Id	
Type	string
Description	URL to organization's page at Google Play Store.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	uri
Enum	
Sample	http://playstore.com/myOrg
Comments	

2.1.2.2.3.15 Field appstore

2.1.2.2.3.15.1 appstore Tree Diagram

{ABC} appstore
document

2.1.2.2.3.15.2 appstore properties

PROPERTY	VALUE
Name	appstore
Technical name	
Id	
Type	string
Description	URL to organization's page at Apple App Store
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	uri
Enum	
Sample	http://appstore.com/myOrg
Comments	

2.1.2.2.3.16 Field photo

2.1.2.2.3.16.1 photo Tree Diagram

```
{ABC} photo
        document
```

2.1.2.2.3.16.2 photo properties

PROPERTY	VALUE
Name	photo
Technical name	
Id	
Type	string
Description	URI with the location of the profile's photo.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	uri
Enum	
Sample	
Comments	

2.1.2.2.3.17 Field email

2.1.2.2.3.17.1 email Tree Diagram

```
{ABC} email
        document
```

2.1.2.2.3.17.2 email properties

PROPERTY	VALUE
Name	email
Technical name	
Id	
Type	string
Description	Organization's email
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	email
Enum	
Sample	
Comments	

2.1.2.2.3.18 Field type

2.1.2.2.3.18.1 type Tree Diagram

```
{ABC} type
        document
```

2.1.2.2.3.18.2 type properties

PROPERTY	VALUE
Name	type
Technical name	
Id	
Type	string
Description	The type of the organization. Can be: Community, Government, Health care provider, Non-profit, Other, R&D, Startup, Traditional Company and University. All names are store in lowercase only.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	startup,traditional company,community,government,r&d,non-profit,university,health care provider,other
Sample	
Comments	

2.1.2.2.3.19 Field industry

2.1.2.2.3.19.1 industry Tree Diagram

{ABC} industry
document

2.1.2.2.3.19.2 industry properties

PROPERTY	VALUE
Name	industry
Technical name	
Id	
Type	string
Description	Industry from which the organization participates. Plan is for this values to be scraped from linkedin industries.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

2.1.2.2.3.20 Field language

2.1.2.2.3.20.1 language Tree Diagram

{ABC} language
document

2.1.2.2.3.20.2 language properties

PROPERTY	VALUE
Name	language
Technical name	
Id	
Type	string
Description	Field to inidicate the language used by the organization.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

2.1.2.2.3.21 Field objectives

2.1.2.2.3.21.1 objectives Tree Diagram
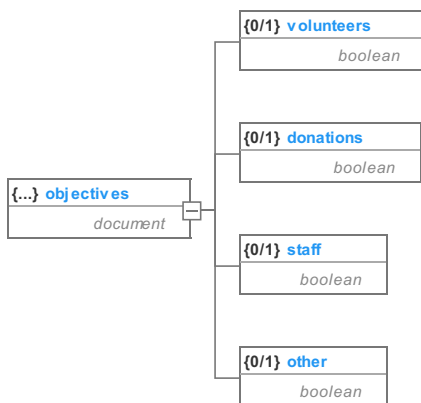
2.1.2.2.3.21.2 objectives Hierarchy

Parent field: **urls**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
volunteers	boolean	true		Flag to indicate wheter the organization is seeking volunteers through the app.	
donations	boolean	true		Flag to indicate wheter the organization is seeking donations through the app.	
staff	boolean	true		Flag to indicate wheter the organization is seeking staff through the app.	
other	boolean	true		Flag to indicate wheter the organization is seeking other needs through the app.	

2.1.2.2.3.21.3 objectives properties

PROPERTY	VALUE
Name	objectives
Technical name	
Id	
Type	document
Description	Document with what are the objectives of the organization through the application, such as finding volunteers, staff, investors and donors.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
DBRef	
Min Properties	
Max Properties	
Additional properties	false
Comments	

2.1.2.2.3.22 Field volunteers

2.1.2.2.3.22.1 volunteers Tree Diagram

{0/1} **volunteers**
document

2.1.2.2.3.22.2 volunteers properties

PROPERTY	VALUE
Name	volunteers
Technical name	
Id	
Type	boolean
Description	Flag to indicate wheter the organization is seeking volunteers through the app.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	false
Sample	true
Comments	

2.1.2.2.3.23 Field donations

2.1.2.2.3.23.1 donations Tree Diagram

{0/1} **donations**
document

2.1.2.2.3.23.2 donations properties

PROPERTY	VALUE
Name	donations
Technical name	
Id	
Type	boolean
Description	Flag to indicate wheter the organization is seeking donations through the app.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	false
Sample	false
Comments	

2.1.2.2.3.24 Field staff

2.1.2.2.3.24.1 staff Tree Diagram

{0/1} **staff**
document

2.1.2.2.3.24.2 staff properties

PROPERTY	VALUE
Name	staff
Technical name	
Id	
Type	boolean
Description	Flag to indicate wheter the organization is seeking staff through the app.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	false
Sample	false
Comments	

2.1.2.2.3.25 Field other

2.1.2.2.3.25.1 other Tree Diagram

```
{0/1}  other
         document
```

2.1.2.2.3.25.2 other properties

PROPERTY	VALUE
Name	other
Technical name	
Id	
Type	boolean
Description	Flag to indicate wheter the organization is seeking other needs through the app.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	false
Sample	false
Comments	

2.1.2.3 Collection posts

2.1.2.3.1 posts Tree Diagram
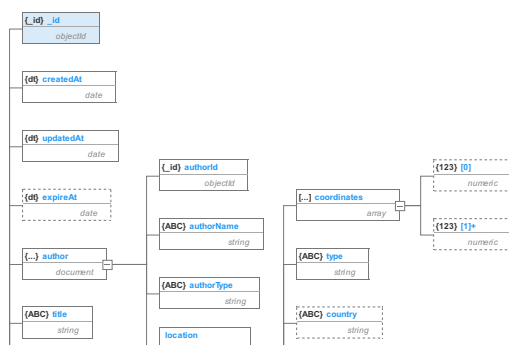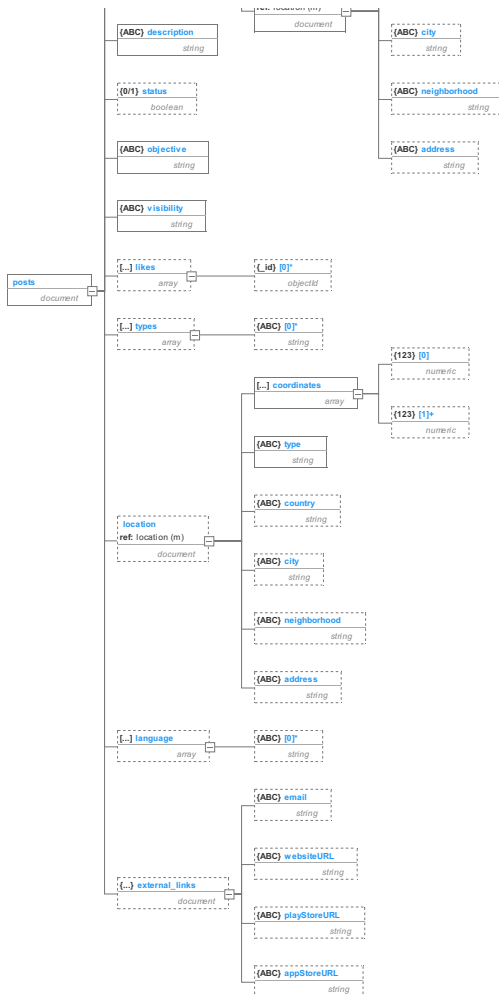
2.1.2.3.2 posts Properties

PROPERTY	VALUE
Collection name	posts
Technical name	
Id	
Description	Document to represent a post, asking or offering help to be displayed on the feed
Database	applicationDB
Capped	false
Size	
Max	
Storage engine	WiredTiger
Config String	
Validation level	Off
Validation action	Warn
Additional properties	false
Comments	

2.1.2.3.3 posts Fields

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
_id	objectId	true			
createdAt	date	true		Timestamp with the post's creation date	
updatedAt	date	true		Timestamp with the post's last update date	

expireAt	date	false		Timestamp with the date the post will expire. If no expiration date is present, the post does not expire.	
author	document	true			
authorId	objectId	true		Foreign key to the user who created the post.	
authorName	string	true			
authorType	string	true			
location	document	true		Location document according to the norms of a GeoJSON Object. The fields address, neighborhood, city, state and country are added to store the result of the geoprocessing.	
coordinates	array	true		Array with the coordinates, specifying **longitude first** and **latitude second**, as default in the GeoJSON definition.	
[0]	numeric	false		Location longitude	
[1]	numeric	false		Location latitude	
type	string	true		Type of the GeoJSON Object. Please refer to the official documentation for more information. **In our case, the value will always be of the type "Point".**	
country	string	false		String holding the country's name.	
city	string	false		String holding the city's name.	
neighborhood	string	false		String holding the neighborhood's name.	
address	string	false		String holding the address (street, number and other details).	
title	string	true		The post title.	
description	string	true		String for the post content.	
status	boolean	false			
objective	string	true		Field to indicate the post's objective. Currently only two values allowed: "offering help" and "looking for help".	
visibility	string	true		Field to specify the post's visibility. It can be: worldwide, country, state and zipcode.	
likes	array	false		Array holding the user_id of all the users who liked the post.	
[0]	objectId	false		_id of the user who liked the post	
types	array	false		Array with the post's tags. Can be: Medical Supplies, Groceries/Food, Business, Education, Legal, Wellbeing/Mental, Entertainment, Information, Funding, R&D and Others	
[0]	string	false			

location	document	false	Location document according to the norms of a GeoJSON Object. The fields address, neighborhood, city, state and country are added to store the result of the geoprocessing.	
coordinates	array	true	Array with the coordinates, specifying **longitude first** and **latitude second**, as default in the GeoJSON definition.	
[0]	numeric	false	Location longitude	
[1]	numeric	false	Location latitude	
type	string	true	Type of the GeoJSON Object. Please refer to the official documentation for more information. **In our case, the value will always be of the type "Point".**	
country	string	false	String holding the country's name.	
city	string	false	String holding the city's name.	
neighborhood	string	false	String holding the neighborhood's name.	
address	string	false	String holding the address (street, number and other details).	
language	array	false		
[0]	string	false		
external_links	document	false		
email	string	false		
websiteURL	string	false		
playStoreURL	string	false		
appStoreURL	string	false		

2.1.2.3.3.1 Field _id

2.1.2.3.3.1.1 _id Tree Diagram

{_id} _id
document

2.1.2.3.3.1.2 _id properties

PROPERTY	VALUE
Name	_id
Technical name	
Id	
Type	objectId
Description	
Dependencies	
Required	true
Primary key	true
Foreign collection	
Foreign field	
Relationship type	
Default	
Sample	
Comments	

2.1.2.3.3.2 Field createdAt

2.1.2.3.3.2.1 createdAt Tree Diagram

{dt} **createdAt**
document

2.1.2.3.3.2.2 createdAt properties

PROPERTY	VALUE
Name	createdAt
Technical name	
Id	
Type	date
Description	Timestamp with the post's creation date
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Sample	
Comments	

2.1.2.3.3.3 Field updatedAt

2.1.2.3.3.3.1 updatedAt Tree Diagram

{dt} **updatedAt**
document

2.1.2.3.3.3.2 updatedAt properties

PROPERTY	VALUE
Name	updatedAt
Technical name	
Id	
Type	date
Description	Timestamp with the post's last update date
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Sample	
Comments	

2.1.2.3.3.4 Field expireAt

2.1.2.3.3.4.1 expireAt Tree Diagram

{dt} **expireAt**
document

2.1.2.3.3.4.2 expireAt properties

PROPERTY	VALUE
Name	expireAt
Technical name	
Id	
Type	date
Description	Timestamp with the date the post will expire. If no expiration date is present, the post does not expire.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Sample	
Comments	

2.1.2.3.3.5 Field author

2.1.2.3.3.5.1 author Tree Diagram
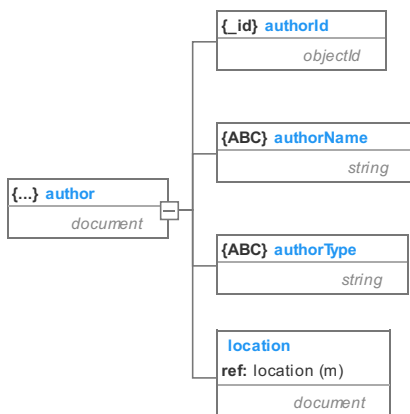
2.1.2.3.3.5.2 author Hierarchy

Parent field: **posts**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
authorId	objectId	true	fk	Foreign key to the user who created the post.	
authorName	string	true			
authorType	string	true			
location	reference	true			

2.1.2.3.3.5.3 author properties

PROPERTY	VALUE
Name	author
Technical name	
Id	
Type	document
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
DBRef	
Min Properties	
Max Properties	
Additional properties	false
Comments	

2.1.2.3.3.6 Field authorId

2.1.2.3.3.6.1 authorId Tree Diagram

```
{_id} authorId
        document
```

2.1.2.3.3.6.2 authorId properties

PROPERTY	VALUE
Name	authorId
Technical name	
Id	
Type	objectId
Description	Foreign key to the user who created the post.
Dependencies	
Required	true
Primary key	false
Foreign collection	users
Foreign field	_id
Relationship type	Foreign Key
Default	
Sample	
Comments	

2.1.2.3.3.7 Field authorName

2.1.2.3.3.7.1 authorName Tree Diagram

```
{ABC} authorName
        document
```

2.1.2.3.3.7.2 authorName properties

PROPERTY	VALUE
Name	authorName
Technical name	
Id	
Type	string
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

2.1.2.3.3.8 Field authorType

2.1.2.3.3.8.1 authorType Tree Diagram

{ABC} authorType
document

2.1.2.3.3.8.2 authorType properties

PROPERTY	VALUE
Name	authorType
Technical name	
Id	
Type	string
Description	
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

2.1.2.3.3.9 Field location

2.1.2.3.3.9.1 location Tree Diagram

location
ref: location (m)
document

2.1.2.3.3.9.2 location properties

PROPERTY	VALUE
Name	location
$ref	#model/definitions/location
Reference type	model

2.1.2.3.3.10 Field title

2.1.2.3.3.10.1 title Tree Diagram

{ABC} title
document

2.1.2.3.3.10.2 title properties

PROPERTY	VALUE
Name	title
Technical name	
Id	
Type	string
Description	The post title.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

2.1.2.3.3.11 Field description

2.1.2.3.3.11.1 description Tree Diagram

{ABC} description
document

2.1.2.3.3.11.2 description properties

PROPERTY	VALUE
Name	description
Technical name	
Id	
Type	string
Description	String for the post content.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

2.1.2.3.3.12 Field status

2.1.2.3.3.12.1 status Tree Diagram

{0/1} status
document

2.1.2.3.3.12.2 status properties

PROPERTY	VALUE
Name	status
Technical name	
Id	
Type	boolean
Description	
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Sample	
Comments	

2.1.2.3.3.13 Field objective

2.1.2.3.3.13.1 objective Tree Diagram

{ABC} objective
document

2.1.2.3.3.13.2 objective properties

PROPERTY	VALUE
Name	objective
Technical name	
Id	
Type	string
Description	Field to indicate the post's objective. Currently only two values allowed: "offering help" and "looking for help".
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	request,offer
Sample	offer
Comments	

2.1.2.3.3.14 Field visibility

2.1.2.3.3.14.1 visibility Tree Diagram

{ABC} visibility
document

2.1.2.3.3.14.2 visibility properties

PROPERTY	VALUE
Name	visibility
Technical name	
Id	
Type	string
Description	Field to specify the post's visibility. It can be: worldwide, country, state and zipcode.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	zipcode,state,country,worldwide
Sample	
Comments	

2.1.2.3.3.15 Field likes

2.1.2.3.3.15.1 likes Tree Diagram

```
[...] likes               {_id} [0]*
     document                    objectId
```
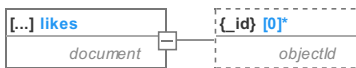
2.1.2.3.3.15.2 likes Hierarchy

Parent field: **location**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
[0]	objectId	false	fk	_id of the user who liked the post	

2.1.2.3.3.15.3 likes properties

PROPERTY	VALUE
Name	likes
Technical name	
Id	
Type	array
Description	Array holding the user_id of all the users who liked the post.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Min items	
Max items	
Unique items	true
Additional items	true
Comments	

2.1.2.3.3.16 Field neighborhood

2.1.2.3.3.16.1 neighborhood Tree Diagram

```
{_id} neighborhood
          document
```
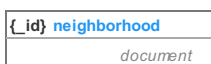
2.1.2.3.3.16.2 neighborhood properties

PROPERTY	VALUE
Id	
Type	objectId
Description	_id of the user who liked the post
Dependencies	
Primary key	false
Foreign collection	users
Foreign field	_id
Relationship type	Foreign Key
Default	
Sample	
Comments	

2.1.2.3.3.17 Field types

2.1.2.3.3.17.1 types Tree Diagram

2.1.2.3.3.17.2 types Hierarchy

Parent field: **location**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
[0]	string	false			

2.1.2.3.3.17.3 types properties

PROPERTY	VALUE
Name	types
Technical name	
Id	
Type	array
Description	Array with the post's tags. Can be: Medical Supplies, Groceries/Food, Business, Education, Legal, Wellbeing/Mental, Entertainment, Information, Funding, R&D and Others
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Min items	
Max items	
Unique items	false
Additional items	true
Comments	

2.1.2.3.3.18 Field title

### 2.1.2.3.3.18.1 title Tree Diagram

2.1.2.3.3.18.2 title properties

PROPERTY	VALUE
Id	
Type	string
Description	
Dependencies	
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	Medical Supplies,Groceries/Food,Business,Education,Legal,Wellbeing/Mental,Entertainment,Information,Funding,R&D,Others
Sample	Groceries/Food
Comments	

2.1.2.3.3.19 Field location

2.1.2.3.3.19.1 location Tree Diagram

location
ref: location (m)
document

2.1.2.3.3.19.2 location properties

PROPERTY	VALUE
Name	location
$ref	#model/definitions/location
Reference type	model

2.1.2.3.3.20 Field language

2.1.2.3.3.20.1 language Tree Diagram

[...] language
document

{ABC} [0]*
string
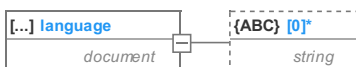
2.1.2.3.3.20.2 language Hierarchy

Parent field: **posts**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
[0]	string	false			

2.1.2.3.3.20.3 language properties

PROPERTY	VALUE
Name	language
Technical name	
Id	
Type	array
Description	
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Min items	
Max items	
Unique items	false
Additional items	true
Comments	

2.1.2.3.3.21 Field objective

2.1.2.3.3.21.1 objective Tree Diagram

{ABC} objective
document

2.1.2.3.3.21.2 objective properties

PROPERTY	VALUE
Id	
Type	string
Description	
Dependencies	
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

2.1.2.3.3.22 Field external_links

2.1.2.3.3.22.1 external_links Tree Diagram
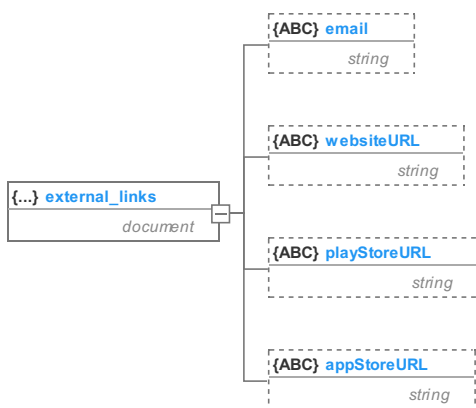
2.1.2.3.3.22.2 external_links Hierarchy

Parent field: **posts**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
email	string	false			
websiteURL	string	false			
playStoreURL	string	false			
appStoreURL	string	false			

2.1.2.3.3.22.3 external_links properties

PROPERTY	VALUE
Name	external_links
Technical name	
Id	
Type	document
Description	
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
DBRef	
Min Properties	
Max Properties	
Additional properties	false
Comments	

2.1.2.3.3.23 Field email

2.1.2.3.3.23.1 email Tree Diagram
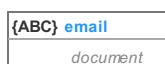
2.1.2.3.3.23.2 email properties

PROPERTY	VALUE
Name	email
Technical name	
Id	
Type	string
Description	
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

2.1.2.3.3.24 Field websiteURL

2.1.2.3.3.24.1 websiteURL Tree Diagram

{ABC} websiteURL

document

2.1.2.3.3.24.2 websiteURL properties

PROPERTY	VALUE
Name	websiteURL
Technical name	
Id	
Type	string
Description	
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

2.1.2.3.3.25 Field playStoreURL

2.1.2.3.3.25.1 playStoreURL Tree Diagram

{ABC} playStoreURL
document

2.1.2.3.3.25.2 playStoreURL properties

PROPERTY	VALUE
Name	playStoreURL
Technical name	
Id	
Type	string
Description	
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

2.1.2.3.3.26 Field appStoreURL

2.1.2.3.3.26.1 appStoreURL Tree Diagram

{ABC} appStoreURL
document

2.1.2.3.3.26.2 appStoreURL properties

PROPERTY	VALUE
Name	appStoreURL
Technical name	
Id	
Type	string
Description	
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

2.1.2.4 Collection users

2.1.2.4.1 users Tree Diagram
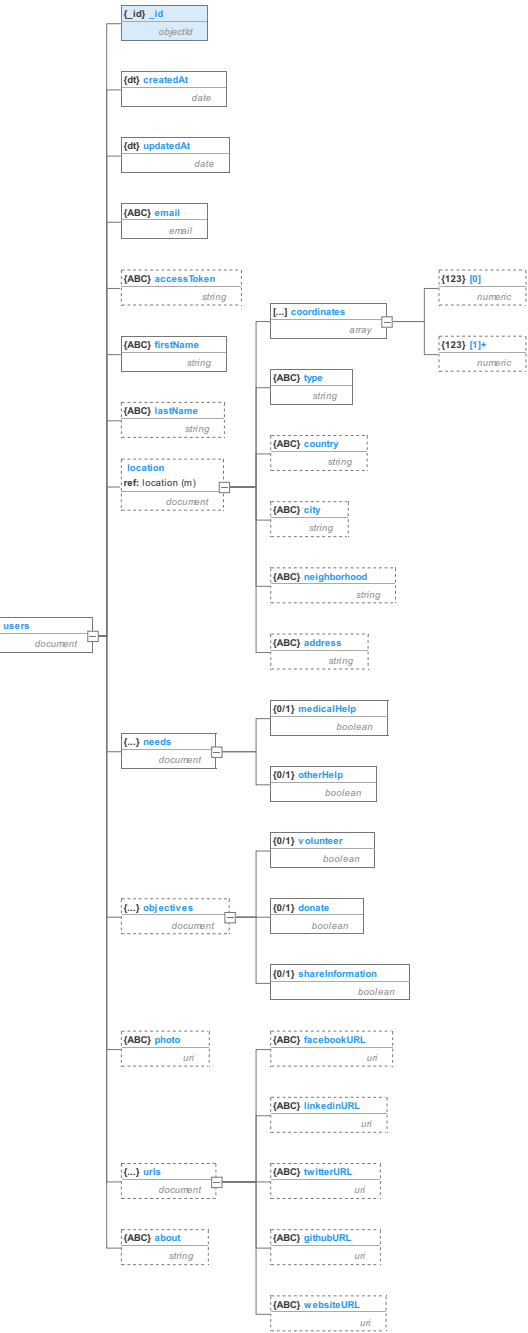
2.1.2.4.2 users Properties

PROPERTY	VALUE
Collection name	users
Technical name	
Id	
Description	
Database	applicationDB
Capped	false
Size	
Max	
Storage engine	WiredTiger
Config String	
Validation level	Off
Validation action	Warn
Additional properties	true
Comments	

2.1.2.4.3 users Fields

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
_id	objectId	true		Automatically generated _it as primary key.	
createdAt	date	true		Timestamp with the user's creation date	Thu Apr 16 2020 04:59:24 GMT-0300 (Horário Padrão de Brasília): changed the name to registeredAt
updatedAt	date	true		Timestamp indicating last update on the database.	
email	email	true		User's email validated by a regex pattern.	
accessToken	string	false		User's acess token. Shouldn't be required?	
firstName	string	true		The first name of the user	
lastName	string	false		The last name of the user. Optional field.	
location	document	false		Location document according to the norms of a GeoJSON Object. The fields address, neighborhood, city, state and country are added to store the result of the geoprocessing.	
coordinates	array	true		Array with the coordinates, specifying **longitude first** and **latitude second**, as default in the GeoJSON definition.	
[0]	numeric	false		Location longitude	
[1]	numeric	false		Location latitude	
type	string	true		Type of the GeoJSON Object. Please refer to the official documentation for more information. **In our case, the value will always be of the type "Point".**	

country	string	false		String holding the country's name.	
city	string	false		String holding the city's name.	
neighborhood	string	false		String holding the neighborhood's name.	
address	string	false		String holding the address (street, number and other details).	
needs	document	true		User's need in the app, representing what kind of help he/she needs	
medicalHelp	boolean	true		Flag to indicate wheter the user needs medical help. Marking this indicates he shows symptoms of COVID-19.	
otherHelp	boolean	true		Flag to indicate wheter the user needs non-medical help, such as getting groceries, medice and etc..	
objectives	document	false		Document with what are the objectives of the user through the application, such as donating, volunteering or sharing information.	
volunteer	boolean	true		Flag to indicate wheter the user wants to volunteer for iniciatives through the app.	
donate	boolean	true		Flag to indicate wheter the user wants to donate for iniciatives through the app.	
shareInformation	boolean	true		Flag to indicate wheter the user wants to share information through the app.	
photo	uri	false		URI with the location of the profile's photo.	
urls	document	false		Document holding the user urls to external websites and social networks	
facebookURL	uri	false		URL to user's Facebook page.	
linkedinURL	uri	false		URL to user's Linkedin page.	
twitterURL	uri	false		URL to user's Twitter page.	
githubURL	uri	false		URL to user's Github page.	
websiteURL	uri	false		URL to user's personal website.	
about	string	false		Small self-introduction, limited to 100 char	

2.1.2.4.3.1 Field createdAt

2.1.2.4.3.1.1 createdAt Tree Diagram

{dt} **createdAt**
document

2.1.2.4.3.1.2 createdAt properties

PROPERTY	VALUE
Name	createdAt
Technical name	
Id	
Type	date
Description	Timestamp with the user's creation date
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Sample	
Comments	Thu Apr 16 2020 04:59:24 GMT-0300 (Horário Padrão de Brasília): changed the name to registeredAt

2.1.2.4.3.2 Field updatedAt

2.1.2.4.3.2.1 updatedAt Tree Diagram

{dt} **updatedAt**
document

2.1.2.4.3.2.2 updatedAt properties

PROPERTY	VALUE
Name	updatedAt
Technical name	
Id	
Type	date
Description	Timestamp indicating last update on the database.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Sample	
Comments	

2.1.2.4.3.3 Field email

2.1.2.4.3.3.1 email Tree Diagram

{ABC} **email**
document

2.1.2.4.3.3.2 email properties

PROPERTY	VALUE
Name	email
Technical name	
Id	
Type	string
Description	User's email validated by a regex pattern.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	email
Enum	
Sample	test_user@fightpandemics.com
Comments	

2.1.2.4.3.4 Field accessToken

2.1.2.4.3.4.1 accessToken Tree Diagram

{ABC} **accessToken**

document

2.1.2.4.3.4.2 accessToken properties

PROPERTY	VALUE
Name	accessToken
Technical name	
Id	
Type	string
Description	User's acess token. Shouldn't be required?
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

2.1.2.4.3.5 Field firstName

2.1.2.4.3.5.1 firstName Tree Diagram

{ABC} firstName
document

2.1.2.4.3.5.2 firstName properties

PROPERTY	VALUE
Name	firstName
Technical name	
Id	
Type	string
Description	The first name of the user
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

2.1.2.4.3.6 Field lastName

2.1.2.4.3.6.1 lastName Tree Diagram

{ABC} lastName
document

2.1.2.4.3.6.2 lastName properties

PROPERTY	VALUE
Name	lastName
Technical name	
Id	
Type	string
Description	The last name of the user. Optional field.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

2.1.2.4.3.7 Field location

2.1.2.4.3.7.1 location Tree Diagram

location
ref: location (m)
document

2.1.2.4.3.7.2 location properties

PROPERTY	VALUE
Name	location
$ref	#model/definitions/location
Reference type	model

2.1.2.4.3.8 Field _id

2.1.2.4.3.8.1 _id Tree Diagram

{_id} **_id**
document

2.1.2.4.3.8.2 _id properties

PROPERTY	VALUE
Name	_id
Technical name	
Id	
Type	objectId
Description	Automatically generated _it as primary key.
Dependencies	
Required	true
Primary key	true
Foreign collection	
Foreign field	
Relationship type	
Default	
Sample	
Comments	

2.1.2.4.3.9 Field needs

2.1.2.4.3.9.1 needs Tree Diagram
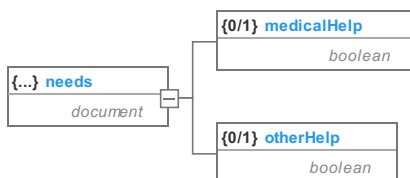
2.1.2.4.3.9.2 needs Hierarchy

Parent field: **location**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
medicalHelp	boolean	true		Flag to indicate wheter the user needs medical help. Marking this indicates he shows symptoms of COVID-19.	
otherHelp	boolean	true		Flag to indicate wheter the user needs non-medical help, such as getting groceries, medice and etc..	

2.1.2.4.3.9.3 needs properties

PROPERTY	VALUE
Name	needs
Technical name	
Id	
Type	document
Description	User's need in the app, representing what kind of help he/she needs
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
DBRef	
Min Properties	
Max Properties	
Additional properties	false
Comments	

2.1.2.4.3.10 Field medicalHelp

2.1.2.4.3.10.1 medicalHelp Tree Diagram

{0/1} medicalHelp
document

2.1.2.4.3.10.2 medicalHelp properties

PROPERTY	VALUE
Name	medicalHelp
Technical name	
Id	
Type	boolean
Description	Flag to indicate wheter the user needs medical help. Marking this indicates he shows symptoms of COVID-19.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	false
Sample	false
Comments	

2.1.2.4.3.11 Field otherHelp

2.1.2.4.3.11.1 otherHelp Tree Diagram

{0/1} otherHelp
document

2.1.2.4.3.11.2 otherHelp properties

PROPERTY	VALUE
Name	otherHelp
Technical name	
Id	
Type	boolean
Description	Flag to indicate wheter the user needs non-medical help, such as getting groceries, medice and etc..
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	false
Sample	false
Comments	

2.1.2.4.3.12 Field objectives

2.1.2.4.3.12.1 objectives Tree Diagram
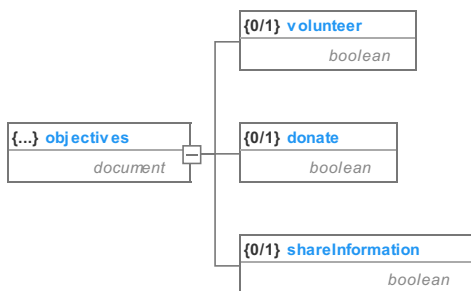
2.1.2.4.3.12.2 objectives Hierarchy

Parent field: **location**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
volunteer	boolean	true		Flag to indicate wheter the user wants to volunteer for iniciatives through the app.	
donate	boolean	true		Flag to indicate wheter the user wants to donate for iniciatives through the app.	
shareInformation	boolean	true		Flag to indicate wheter the user wants to share information through the app.	

2.1.2.4.3.12.3 objectives properties

PROPERTY	VALUE
Name	objectives
Technical name	
Id	
Type	document
Description	Document with what are the objectives of the user through the application, such as donating, volunteering or sharing information.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
DBRef	
Min Properties	
Max Properties	
Additional properties	false
Comments	

2.1.2.4.3.13 Field volunteer

2.1.2.4.3.13.1 volunteer Tree Diagram

{0/1} volunteer
document

2.1.2.4.3.13.2 volunteer properties

PROPERTY	VALUE
Name	volunteer
Technical name	
Id	
Type	boolean
Description	Flag to indicate wheter the user wants to volunteer for iniciatives through the app.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	false
Sample	false
Comments	

2.1.2.4.3.14 Field donate

2.1.2.4.3.14.1 donate Tree Diagram

{0/1} donate
document

2.1.2.4.3.14.2 donate properties

PROPERTY	VALUE
Name	donate
Technical name	
Id	
Type	boolean
Description	Flag to indicate wheter the user wants to donate for iniciatives through the app.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	false
Sample	false
Comments	

2.1.2.4.3.15 Field shareInformation

2.1.2.4.3.15.1 shareInformation Tree Diagram

```
{0/1} shareInformation
              document
```

2.1.2.4.3.15.2 shareInformation properties

PROPERTY	VALUE
Name	shareInformation
Technical name	
Id	
Type	boolean
Description	Flag to indicate wheter the user wants to share information through the app.
Dependencies	
Required	true
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	true
Sample	true
Comments	

2.1.2.4.3.16 Field photo

2.1.2.4.3.16.1 photo Tree Diagram

```
{ABC} photo
          document
```

2.1.2.4.3.16.2 photo properties

PROPERTY	VALUE
Name	photo
Technical name	
Id	
Type	string
Description	URI with the location of the profile's photo.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	uri
Enum	
Sample	
Comments	

2.1.2.4.3.17 Field urls

2.1.2.4.3.17.1 urls Tree Diagram
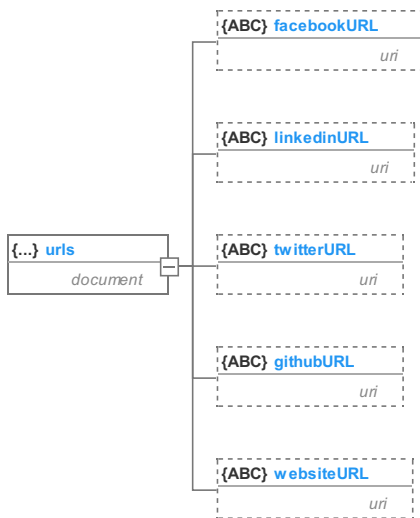
2.1.2.4.3.17.2 urls Hierarchy

Parent field: **users**
Child field(s):

FIELD	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
facebookURL	string	false		URL to user's Facebook page.	
linkedinURL	string	false		URL to user's Linkedin page.	
twitterURL	string	false		URL to user's Twitter page.	
githubURL	string	false		URL to user's Github page.	
websiteURL	string	false		URL to user's personal website.	

2.1.2.4.3.17.3 urls properties

PROPERTY	VALUE
Name	urls
Technical name	
Id	
Type	document
Description	Document holding the user urls to external websites and social networks
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
DBRef	
Min Properties	
Max Properties	
Additional properties	false
Comments	

2.1.2.4.3.18 Field facebookURL

2.1.2.4.3.18.1 facebookURL Tree Diagram

{ABC} **facebookURL**
document

2.1.2.4.3.18.2 facebookURL properties

PROPERTY	VALUE
Name	facebookURL
Technical name	
Id	
Type	string
Description	URL to user's Facebook page.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	uri
Enum	
Sample	http://facebook.com/myProfile
Comments	

2.1.2.4.3.19 Field linkedinURL

2.1.2.4.3.19.1 linkedinURL Tree Diagram

{ABC} **linkedinURL**
document

2.1.2.4.3.19.2 linkedinURL properties

PROPERTY	VALUE
Name	linkedinURL
Technical name	
Id	
Type	string
Description	URL to user's Linkedin page.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	uri
Enum	
Sample	http://linkedin.com/in/myProfile
Comments	

2.1.2.4.3.20 Field twitterURL

2.1.2.4.3.20.1 twitterURL Tree Diagram

```
{ABC} twitterURL
        document
```

2.1.2.4.3.20.2 twitterURL properties

PROPERTY	VALUE
Name	twitterURL
Technical name	
Id	
Type	string
Description	URL to user's Twitter page.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	uri
Enum	
Sample	http://twitter.com/myProfile
Comments	

2.1.2.4.3.21 Field githubURL

2.1.2.4.3.21.1 githubURL Tree Diagram

{ABC} **githubURL**

document

2.1.2.4.3.21.2 githubURL properties

PROPERTY	VALUE
Name	githubURL
Technical name	
Id	
Type	string
Description	URL to user's Github page.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	uri
Enum	
Sample	http://github.com/myProfile
Comments	

2.1.2.4.3.22 Field websiteURL

2.1.2.4.3.22.1 websiteURL Tree Diagram

{ABC} **websiteURL**

document

2.1.2.4.3.22.2 websiteURL properties

PROPERTY	VALUE
Name	websiteURL
Technical name	
Id	
Type	string
Description	URL to user's personal website.
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	uri
Enum	
Sample	http://mypersonalwebsite.com
Comments	

2.1.2.4.3.23 Field about

2.1.2.4.3.23.1 about Tree Diagram

```
{ABC} about
       document
```

2.1.2.4.3.23.2 about properties

PROPERTY	VALUE
Name	about
Technical name	
Id	
Type	string
Description	Small self-introduction, limited to 100 char
Dependencies	
Required	false
Primary key	false
Foreign collection	
Foreign field	
Relationship type	
Default	
Min length	
Max length	
Pattern	
Format	
Enum	
Sample	
Comments	

3. RELATIONSHIPS

3.1 Relationship CommentHasNestedComments

3.1.1 CommentHasNestedComments Diagram

PARENT TABLE	PARENT FIELD
comments	_id

CHILD TABLE	CHILD FIELD
comments	parentId
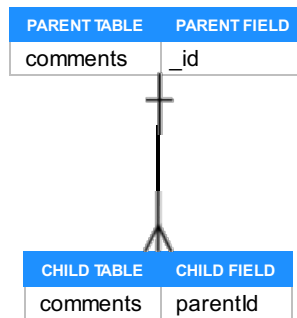
3.1.2 CommentHasNestedComments Properties

PROPERTY	VALUE
Name	CommentHasNestedComments
Description	Relationship of a Comment with it's parent Comment. This is used for nested Comments. Initially, we support only 1 level of nesting (though the data structure can support more, it's easier for querying).
Parent Collection	comments
Parent field	_id
Parent Cardinality	1
Child Collection	comments
Child field	parentId
Child Cardinality	n
Comments	

## 3.2 Relationship PostHasComments

3.2.1 PostHasComments Diagram

PARENT TABLE	PARENT FIELD
posts	_id

CHILD TABLE	CHILD FIELD
comments	postId
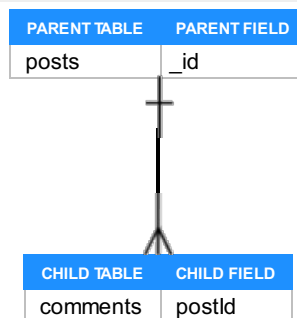
3.2.2 PostHasComments Properties

PROPERTY	VALUE
Name	PostHasComments
Description	Relationship between a Post and it's respective Comments made at it.
Parent Collection	posts
Parent field	_id
Parent Cardinality	1
Child Collection	comments
Child field	postId
Child Cardinality	n
Comments	

3.3 Relationship UserCreatesComment

3.3.1 UserCreatesComment Diagram

PARENT TABLE	PARENT FIELD
users	_id

CHILD TABLE	CHILD FIELD
comments	authorId
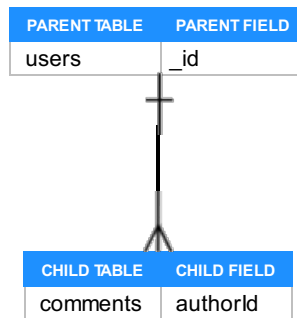
3.3.2 UserCreatesComment Properties

PROPERTY	VALUE
Name	UserCreatesComment
Description	Relation between a User and the Comment created by him/her.
Parent Collection	users
Parent field	_id
Parent Cardinality	1
Child Collection	comments
Child field	authorId
Child Cardinality	n
Comments	

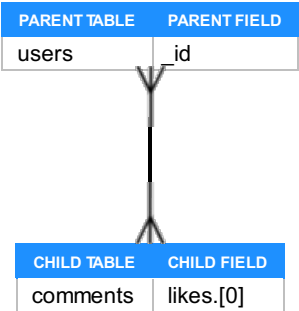## 3.4 Relationship UserCreatesPost

3.4.1 UserCreatesPost Diagram

PARENT TABLE	PARENT FIELD
users	_id

CHILD TABLE	CHILD FIELD
posts	author.authorId
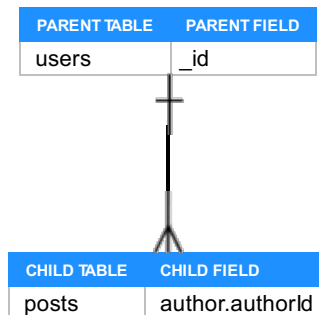
3.4.2 UserCreatesPost Properties

PROPERTY	VALUE
Name	UserCreatesPost
Description	Relation between a User and the Post created by him/her.
Parent Collection	users
Parent field	_id
Parent Cardinality	1
Child Collection	posts
Child field	
Child Cardinality	n
Comments	

3.5 Relationship UserLikesComment

3.5.1 UserLikesComment Diagram

PARENT TABLE	PARENT FIELD
users	_id

CHILD TABLE	CHILD FIELD
comments	likes.[0]

3.5.2 UserLikesComment Properties

PROPERTY	VALUE
Name	UserLikesComment
Description	Relation to represent the User's who liked a Comment. Even though this is a N-N relation, we opt to store the ids only at the Comment side as an array of _id (with the _id of the users who liked it).
Parent Collection	users
Parent field	_id
Parent Cardinality	n
Child Collection	comments
Child field	
Child Cardinality	n
Comments	

3.6 Relationship UserLikesPost

3.6.1 UserLikesPost Diagram

PARENT TABLE	PARENT FIELD
users	_id

CHILD TABLE	CHILD FIELD
posts	likes.[0]
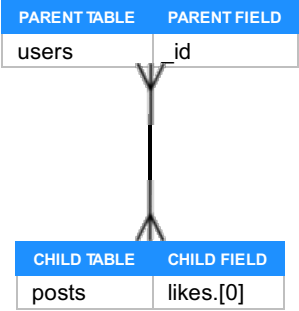
3.6.2 UserLikesPost Properties

PROPERTY	VALUE
Name	UserLikesPost
Description	Relation to represent the User's who liked a Post. Even though this is a N-N relation, we opt to store the ids only at the Post side as an array of _id (with the _id of the users who liked it).
Parent Collection	users
Parent field	_id
Parent Cardinality	n
Child Collection	posts
Child field	
Child Cardinality	n
Comments	

3.7 Relationship UserOwnsOrganization

3.7.1 UserOwnsOrganization Diagram

PARENT TABLE	PARENT FIELD
users	_id

CHILD TABLE	CHILD FIELD
organizations	ownerId
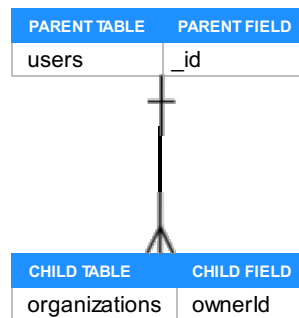
3.7.2 UserOwnsOrganization Properties

PROPERTY	VALUE
Name	UserOwnsOrganization
Description	Relation between an User and an Organization created by him/her. Initially projected as 1-N, with only one User owning the Organization, it is though to later on be evolved into N-N, with many Users being able to manage the Organization with different roles.
Parent Collection	users
Parent field	_id
Parent Cardinality	1
Child Collection	organizations
Child field	ownerId
Child Cardinality	n
Comments	