Rapport projet « Toilettes »

Programmation mobile et web services

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Sujet et but de l'application

Toilettes est une application mobile faite avec le framework Ionic 2 qui interroge une API que nous avons créée à l'aide de l'environnement de développement NodeJS et de divers modules.

Le but de l'application est de permettre aux utilisateurs de trouver les toilettes les plus proches de sa localisation.

Notice de déploiement

Installation client

Pour que que l'application, il faut que le serveur soit lancé.

1. Lancer la commande 'npm install' dans le dossier Toilettes du dossier ionic_project
2. Lancer la commande 'ionic build'.
3. Lancer ensuite la commande : **ionic plugin add cordova-plugin-googlemaps --variable API_KEY_FOR_ANDROID="AIzaSyDE99utD1l0leasTivb7AuNw_Qk1DzSY2c " --variable API_KEY_FOR_IOS="AIzaSyDE99utD1l0leasTivb7AuNw_Qk1DzSY2c "**
4. Lancer la commande 'ionic run android' ou 'ionic run ios'

Installation serveur (API)

Tout d'abord, il faut que NodeJS soit installé puis il faut suivre les étapes suivantes :

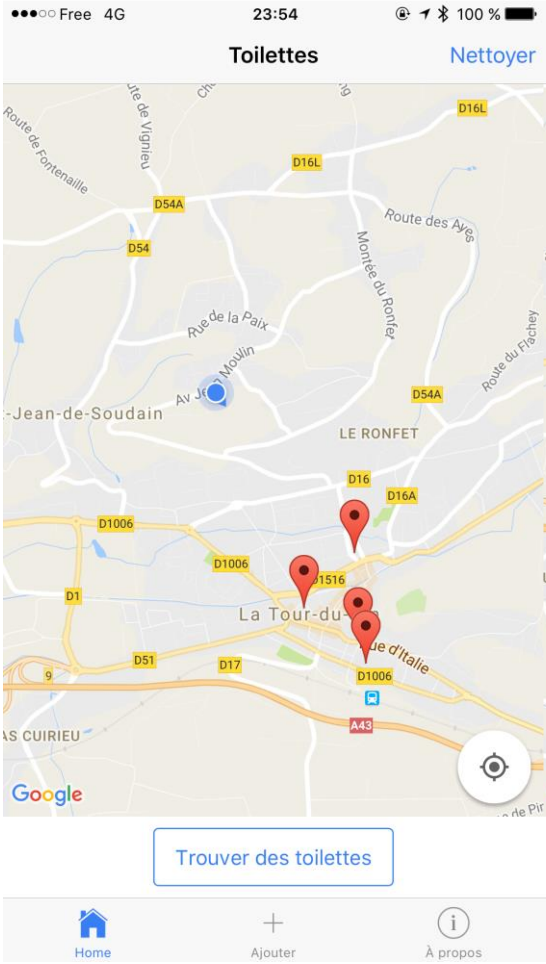
1. Cloner ou télécharger le projet https://github.com/AhmetCelikbas/Toilettes.git
2. Ouvrir une fenêtre de commandes à la racine du dossier nodejs_api
3. Lancer la commande 'npm install' pour récupérer les dépendances du projet
4. Lancer la commande 'sequelize db:migrate' pour créer la base de données
5. Enfin lancer la commande 'node app.js' pour démarrer le serveur

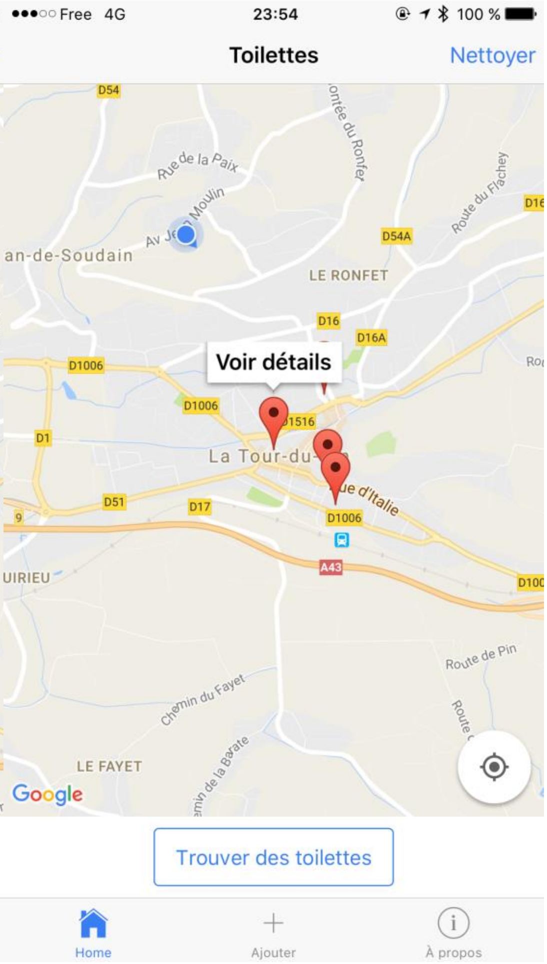
Guide d’utilisation

L'application est simple d'utilisation, elle dispose de trois onglets : Home, Ajouter et About

Home montre les toilettes proches de l'utilisateur sur une carte, Ajouter permet d'ajouter des nouvelles toilettes sur la position gps de l'utilisateur et About permet de se connecter ou modifier son compte

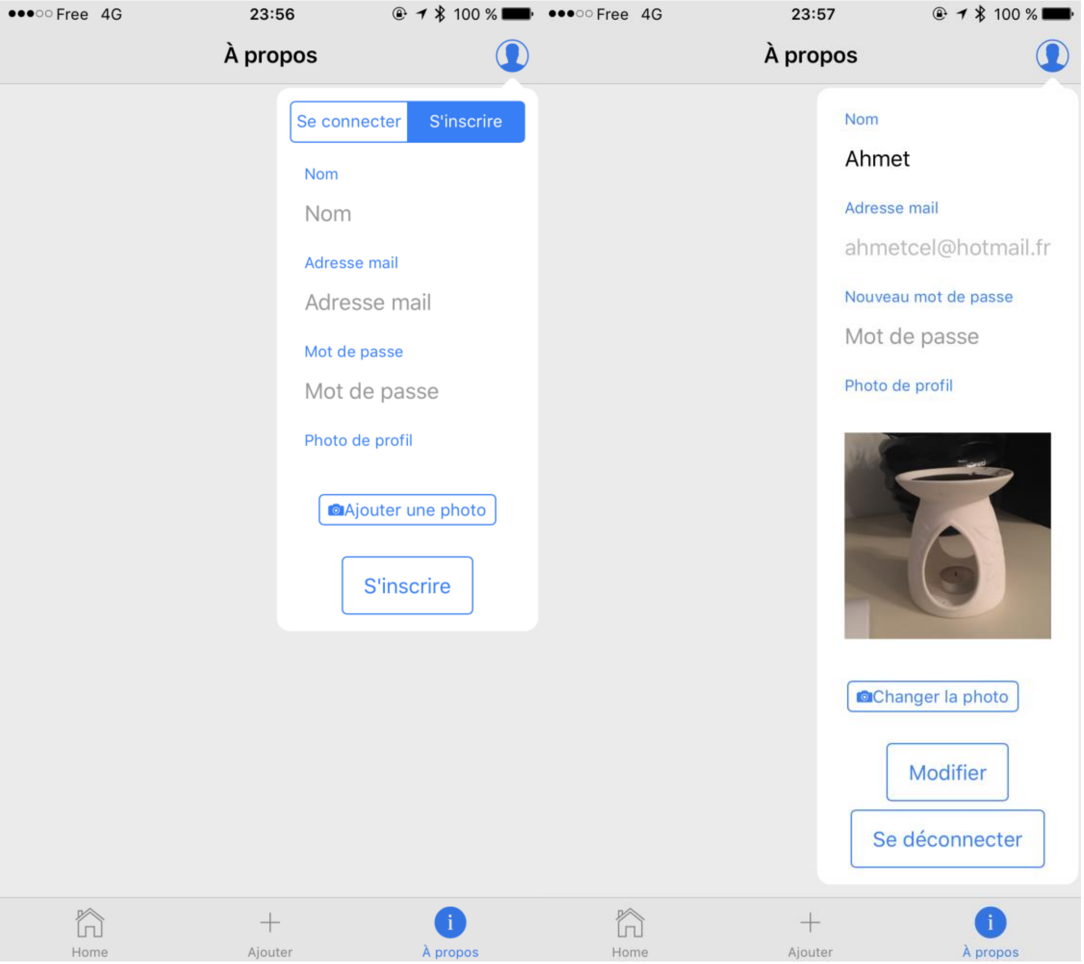
Sur l'onglet homme cliquer sur le bouton trouver des toilettes. Chaque marqueur correspond à des toilettes. Le point bleu indique la position de l'utilisateur. Cliquer sur un marqueur pour sélectionner les toilettes correspondant au marqueur puis cliquer sur 'Voir détails' pour afficher les détails de ces toilettes.





Rendez-vous ensuite dans l'onglet About puis cliquer sur l'icone 'profile' en haut a droite.

Sélectionnez s'inscrire et renseignez le formulaire en y ajoutant une photo si vous le désirez. Cliquez ensuite sur le bouton s'inscrire. Lorsque vous cliquerez à nouveau sur l'icone profile vous pourrez modifier votre compte pour changer votre nom, votre mot de passe ou encore votre photo.



Nom: Nom

Adresse mail: Adresse mail

Mot de passe: Mot de passe

Photo de profil

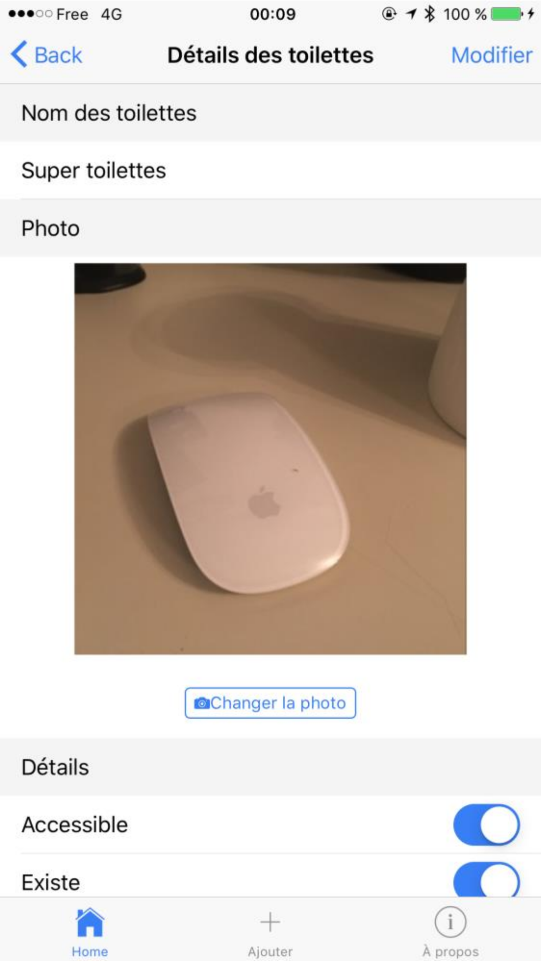
Nom: Ahmet

Adresse mail: ahmetcel@hotmail.fr

Nouveau mot de passe: Mot de passe

Photo de profil

Une fois connecté avec votre compte vous pourrez modifier des détails de toilettes ou encore ajouter de nouvelles toilettes avec l'onglet Ajouter



Détails des toilettes

Nom des toilettes

Super toilettes

Photo

Détails

Accessible

Existe

Documentation de l'API

API prefix : "/v1/api"

Get all toilets around user position

```
GET /toilets/:southWestLat/:southWestLon/:northEastLat/:northEastLon
```

Parameters

Name	Type	Description
southWestLat southWestLon	real	Location of the bottom left of the bounding box where are all toilets around our position
northEastLat northEastLon	real	Location of the top right of the bounding box where are all toilets around our position

Response

```
Status: 200 OK
```

```
[
  {
    "id": 1,
    "id_osm": 1966868061,
    "id_user": 1,
    "lat": 45.1974288,
    "lng": 5.776482,
```

```
    "Details": null,
    "Comment": []
```

```
  },
  {
    "id": 2,
    "id_osm": 773538141,
    "id_user": 1,
    "lat": 45.1991028,
    "lng": 5.7663749,
```

```
    "createdAt": "2017-04-12T21:31:36.869Z",
    "updatedAt": "2017-04-12T21:31:36.869Z",
    "Details": {
      "id_toilet": 1,
      "name": "",
      "access": true,
      "exist": true,
      "fee": false,
      "male": false,
      "female": false,
      "wheelchair": false,
      "drinking_water": false,
      "place_type": "restaurant",
      "address": "23 Chemin de l'Île d'Amour, 38240 Meylan, France"
      "createdAt": "2017-04-12T21:31:43.607Z",
      "updatedAt": "2017-04-12T21:31:43.607Z",
    },
    "Comment": [
      {
        "id": 1,
        "id_toilet": 3,
        "id_user": 1,
        "comment": "Mon premier commentaire.",
        "rating": 3
      },
      {
        "id": 2,
        "id_toilet": 3,
        "id_user": 2,
        "comment": "Un autre commentaire.",
        "rating": 4
      }
    ]
  }
]
```

Create a new toilet

```
POST /toilets
```

Header: Authorization : token

Input

Name	Type	Description
id_osm	int	The identifier of a toilet get from overpass API.
lat	double	Latitude of toilet location.
lng	double	Longitude of toilet location.
Object details		
name	string	The user's email.
access	boolean	Indicates whether the toilet is accessible
exist	boolean	Indicates whether it exists
fee	boolean	Indicates whether it's free
male	boolean	Indicates whether it's for male
female	boolean	Indicates whether it's for female
wheelchair	boolean	Indicates whether it's accessible for wheelchair
drinking_water	boolean	Indicates whether you can drink water
place_type	string	Indicates type of toilet, eg: 'restaurant'

Response

```
Status: 200 OK
```

```
{
  "id": 3,
  "id_osm": null,
  "id_user": 1,
  "lat": 45.1974276,
  "lng": 5.736442,
  "Details": null
}
```

Get a specific toilet

```
GET /toilet/:id
```

Response

```
Status: 200 OK
```

```
{
  "id": 2,
  "id_osm": 773538141,
  "id_user": 1,
  "lat": 45.1991028,
  "lng": 5.7663749,
  "createdAt": "2017-04-12T21:31:36.869Z",
  "updatedAt": "2017-04-12T21:31:36.869Z",
  "Details": {
    "id_toilet": 1,
    "name": "",
    "access": true,
    "exist": true,
    "fee": false,
    "male": false,
    "female": false,
    "wheelchair": false,
    "drinking_water": false,
    "place_type": "restaurant",
    "address": "23 Chemin de l'Île d'Amour, 38240 Meylan, France"
    "createdAt": "2017-04-12T21:31:43.607Z",
    "updatedAt": "2017-04-12T21:31:43.607Z",
  }
}
```

Update a specific toilet

```
PUT /toilet/:id
```

Header: Authorization : token

Input

Name	Type	Description
name	string	The user's email.
access	boolean	Indicates whether the toilet is accessible
exist	boolean	Indicates whether it exists
fee	boolean	Indicates whether it's free
male	boolean	Indicates whether it's for male
female	boolean	Indicates whether it's for female
wheelchair	boolean	Indicates whether it's accessible for wheelchair
drinking_water	boolean	Indicates whether you can drink water

Response

```
Status: 200 OK
```

```
{
  "id": 2,
  "id_osm": 773538141,
  "id_user": 1,
  "lat": 45.1991028,
  "lng": 5.7663749,
  "createdAt": "2017-04-12T21:31:36.869Z",
  "updatedAt": "2017-04-12T21:41:12.165Z",
  "Details": {
    "id_toilet": 1,
    "name": "",
    "access": true,
    "exist": true,
    "fee": false,
    "male": true,
    "female": true,
    "wheelchair": true,
    "drinking_water": false,
    "place_type": "restaurant",
    "address": "23 Chemin de l'Île d'Amour, 38240 Meylan, France"
    "createdAt": "2017-04-12T21:31:43.607Z",
    "updatedAt": "2017-04-12T21:41:14.632Z",
  }
}
```

Get a specific toilet's picture

```
GET /toilet/:id/picture
```

Response

```
Status: 200 OK
```

```
{
```

```
  "picture":
"data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wBDAAMCAgMCAgMDAwMEAwMEBQgFBQQE
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```

```
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}
```

Comments endpoints:

Get all comments of a specific toilet

```
GET /toilet/:id/comments
```

Response

```
Status: 200 OK
```

```
[
  {
    "id": 1,
    "id_toilet": 2,
    "id_user": 1,
    "comment": "Mon premier commentaire.",
    "rating": 3
  },
  {
    "id": 2,
    "id_toilet": 2,
    "id_user": 2,
    "comment": "Un autre commentaire.",
    "rating": 4
  }
]
```

Add new comment for a specific toilet

```
POST /toilet/:id/comments
```

Header: Authorization : token

Input

Name	Type	Description
comment	string	A comment about the toilet.
rating	int	Give a note for the toilet.

Response

```
Status: 200 OK
```

```
{
  "id": 1,
  "id_toilet": 2,
  "id_user": 1,
  "comment": "Mon premier commentaire.",
  "rating": 3
}
```

Get a specific comment of a toilet

```
GET /toilet/:id_toilet/comment/id
```

Response

```
Status: 200 OK
```

```
{
  "id": 1,
  "id_toilet": 2,
  "id_user": 1,
  "comment": "Mon premier commentaire.",
  "rating": 3
}
```

Update a specific comment of a toilet

```
PUT /toilet/:id_toilet/comment/:id
```

Header: Authorization : token

Input

Name	Type	Description
comment	text	A comment for the toilet.
rating	int	Give a note for the toilet.

Response

```
Status: 200 OK
```

```
{
  "id": 1,
  "id_toilet": 2,
  "id_user": 1,
  "comment": "Mon nouveau commentaire modifié.",
  "rating": 4
}
```

User endpoints:

Register a new user

```
POST /signup
```

Input

Name	Type	Description
name	string	The user's name.
email	string	The user's email.
password	string	The user's password.

Response

```
Status: 200 OK
```

```
{
  "token":
 "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6MSwiZW1haWwiOiJhQGIuY29tIiwicGFzc3dvcmQiOiJhem
 UiLCJpYXQiOjE0OTIwMDIyMDYsImV4cCI6MTQ5MjA4ODYwNn0.0zF9r6v4dOJjqxQaV7BOATQ6j5U64zbsEca
 LdR5K22g"
}
```

Authenticate a user

```
POST /authenticate
```

Input

Name	Type	Description
email	string	The user's email.
password	string	The user's password.

Response

```
Status: 200 OK
```

```
{
  "token":
 "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6MSwiZW1haWwiOiJhQGIuY29tIiwicGFzc3dvcmQiOiJhem
 UiLCJpYXQiOjE0OTIwMDIyMDYsImV4cCI6MTQ5MjA4ODYwNn0.0zF9r6v4dOJjqxQaV7BOATQ6j5U64zbsEca
 LdR5K22g"
}
```

Get data of specific user account

```
GET /user
```

Header: Authorization : token

Response

```
Status: 200 OK
```

```
{
  "id": 1,
  "name": "Batman",
  "email": "mail@gmail.com",
  "password": "azerty",
  "createdAt": "2017-04-12 10:43:51.000 +00:00",
  "updatedAt": "2017-04-12 10:43:51.000 +00:00"
}
```

Update data of specific user account

```
PUT /user
```

Header: Authorization : token

Input

Name	Type	Description
name	string	The user's name.
password	string	The user's password.

Response

```
Status: 200 OK
```

```
{
  "id": 1,
  "name": "Superman",
  "email": "mail@gmail.com",
  "password": "qwerty",
  "createdAt": "2017-04-12 10:43:51.000 +00:00",
  "updatedAt": "2017-04-12 11:03:22.177 +00:00"
}
```

Diagramme de use cases

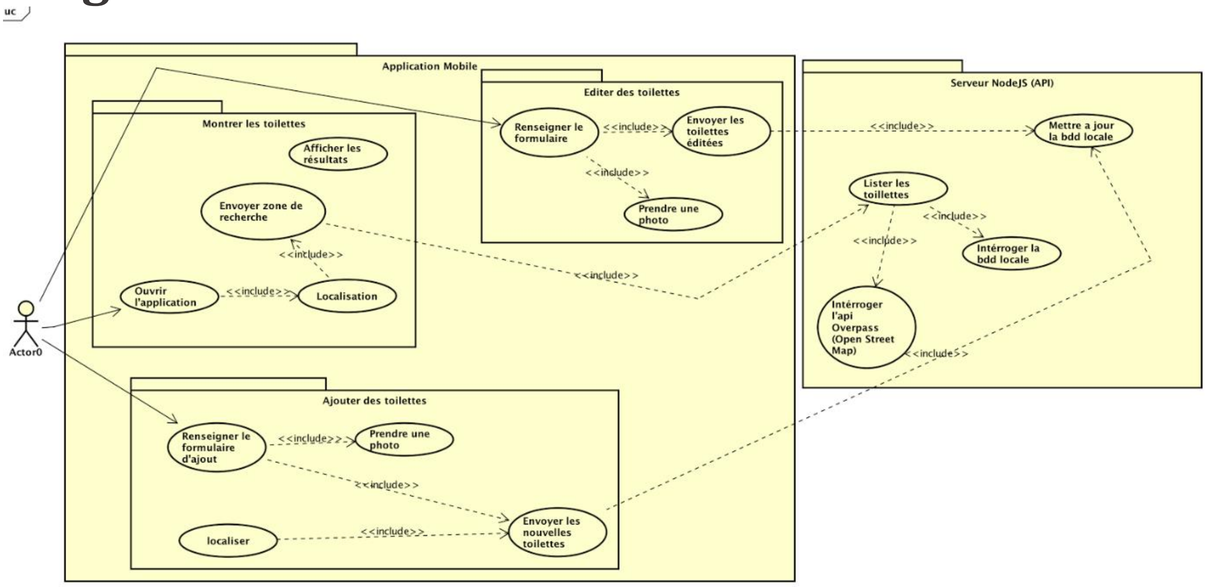
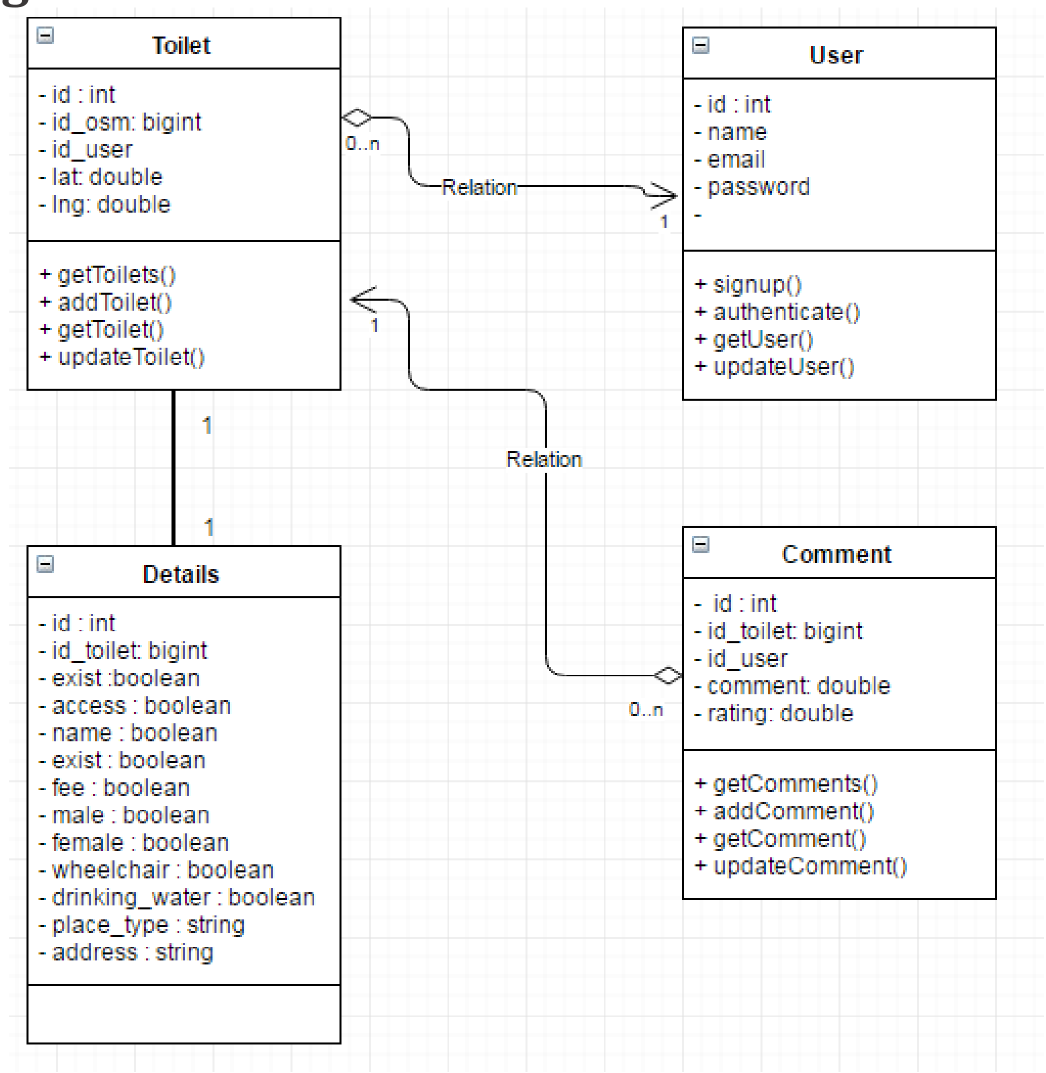


Diagramme de classes


Toilet
- id : int
- id_osm: bigint
- id_user
- lat: double
- lng: double
+ getToilets()
+ addToilet()
+ getToilet()
+ updateToilet()
User
- id : int
- name
- email
- password
-
+ signup()
+ authenticate()
+ getUser()
+ updateUser()
0..n
Relation
1
1
Relation
1
1
0..n
Details
- id : int
- id_toilet: bigint
- exist :boolean
- access : boolean
- name : boolean
- exist : boolean
- fee : boolean
- male : boolean
- female : boolean
- wheelchair : boolean
- drinking_water : boolean
- place_type : string
- address : string
Comment
- id : int
- id_toilet: bigint
- id_user
- comment: double
- rating: double
+ getComments()
+ addComment()
+ getComment()
+ updateComment()