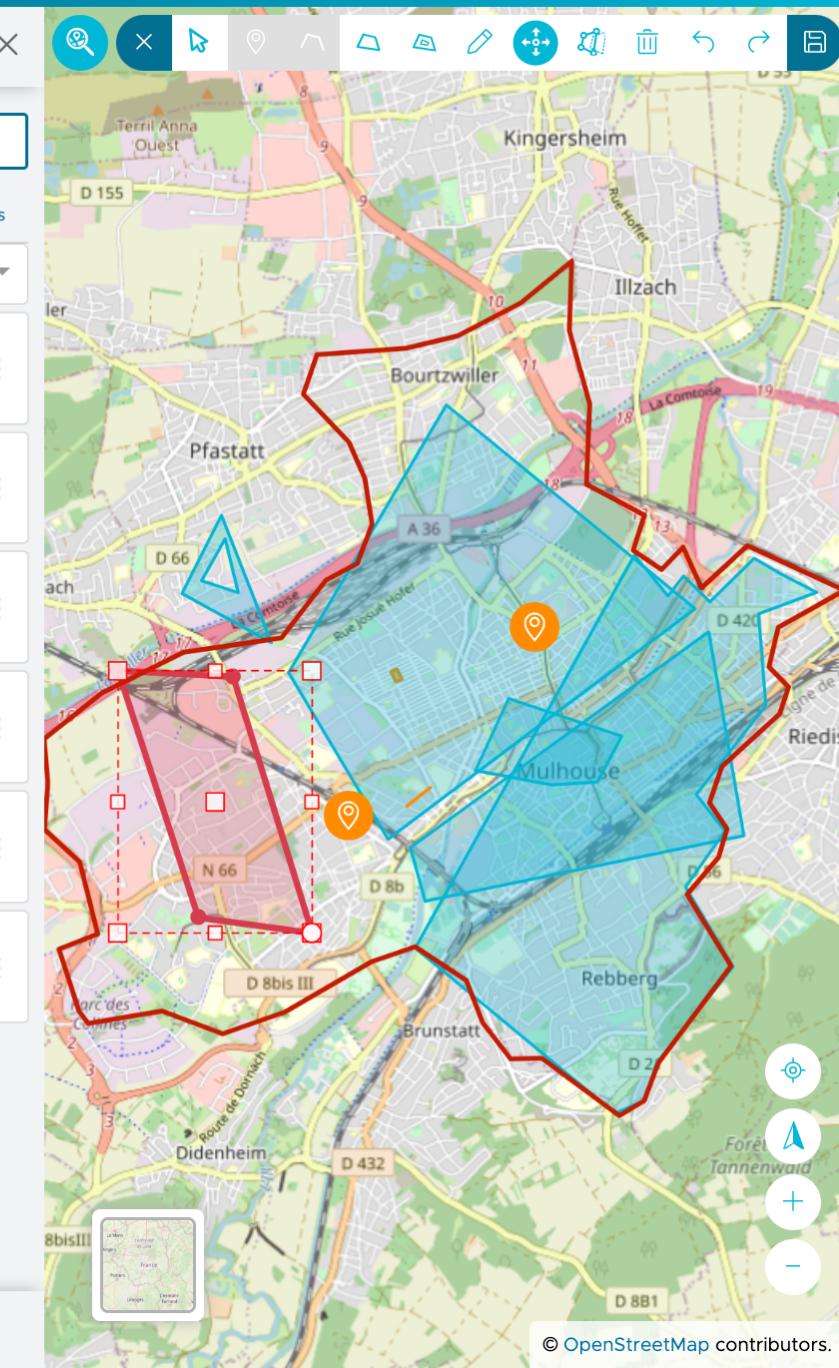


Gestion des types



# L Map Manager

Refactorisation d'une  
application SIG.

# Plan

1. Introduction
2. Présentation de Logitud
3. La Géomatique
4. Stage
  1. Documentation de l'existant et prototypage
  2. Intégration de la maquette
  3. Démonstration
  4. Évolutions et perspectives
5. Conclusion

# 1. Introduction

- Application Web "clients légers"
- Applications avec données géospatiales
- Expérience en géomatique

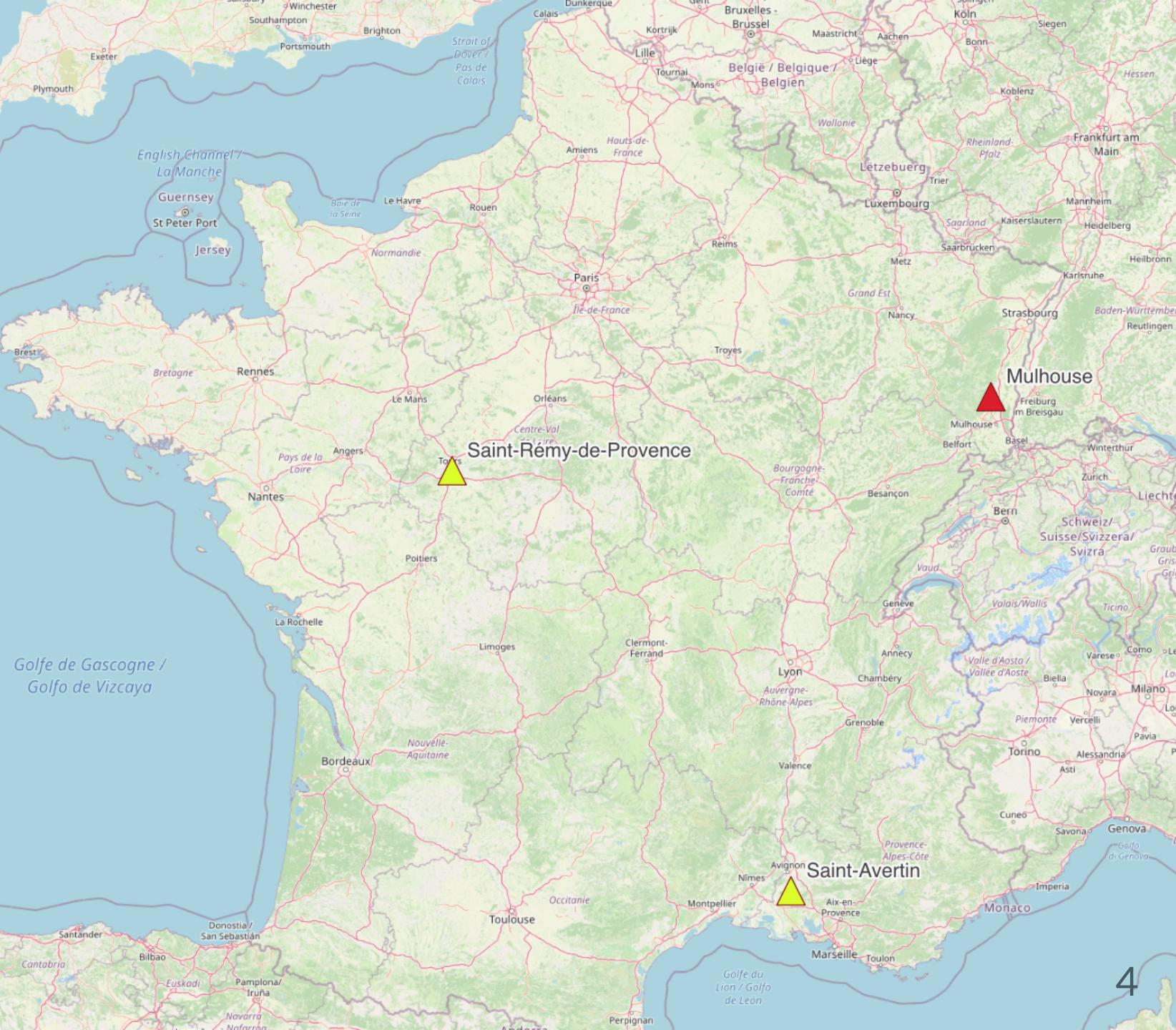


The screenshot shows the MunicipolWeb software interface. At the top, there's a navigation bar with links like 'Accueil', 'Pré-Contrôle du stationnement payant', 'Logitud-Parkeon #INTEGRATION', and 'Assistance et support'. Below the navigation, there are two main sections for parking control:

- AB-004-EF**:  
- Immatrication: AB004EF  
- Zone: ZV - Zone Verte  
- Adresse: 5 Allée Georges Bizet 92150 Suresnes  
- Véhicule LAPi: ergergese  
- Capture à 08:59
- AB-004-EJ**:  
- Immatrication: AB004EJ  
- Zone: ZV - Zone Verte  
- Adresse: 5 Allée Georges Bizet 92150 Suresnes  
- Véhicule LAPi: ergergese  
- Capture à 09:59

On the right side of the interface, there is a map view showing various colored zones (red, green, blue) and a vehicle icon indicating its location. The map also includes street names like 'Allée Georges Bizet' and 'Zone Verte'.

# Logitud Solutions



# Besoin métier

- population
- sécurité
- e-administration



# Chiffres clefs

- 90 Employés (30 Développeurs)
- Gamme population: 1/3 des villes ( $> 5\ 000$  habitants)
- Gamme sécurité: 4/5 des villes ( $> 5\ 000$  habitants)

# Méthodologie de travail

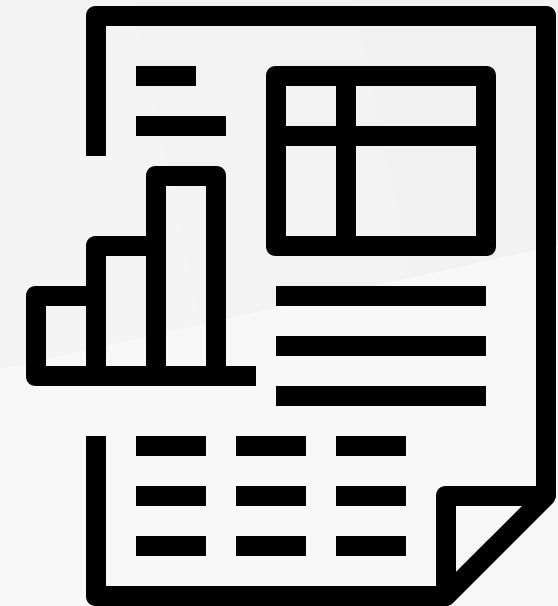
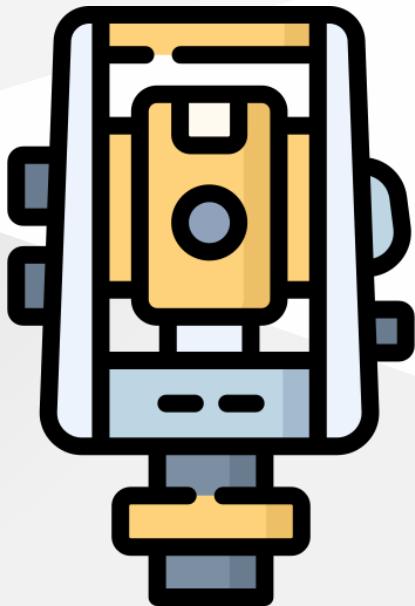
- Cycle en V // SCRUM-Agile
- Kanban



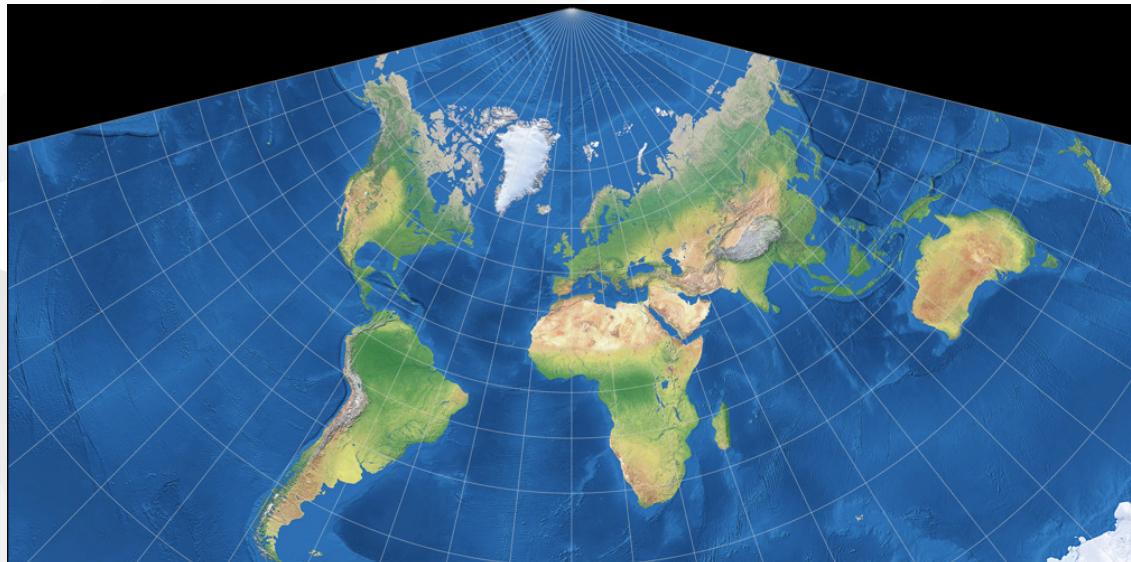
# CYCLE EN V



# Géomatique



# Projection



Lambert Conique Conforme



World Geodetic System WGS 84

# Géométries

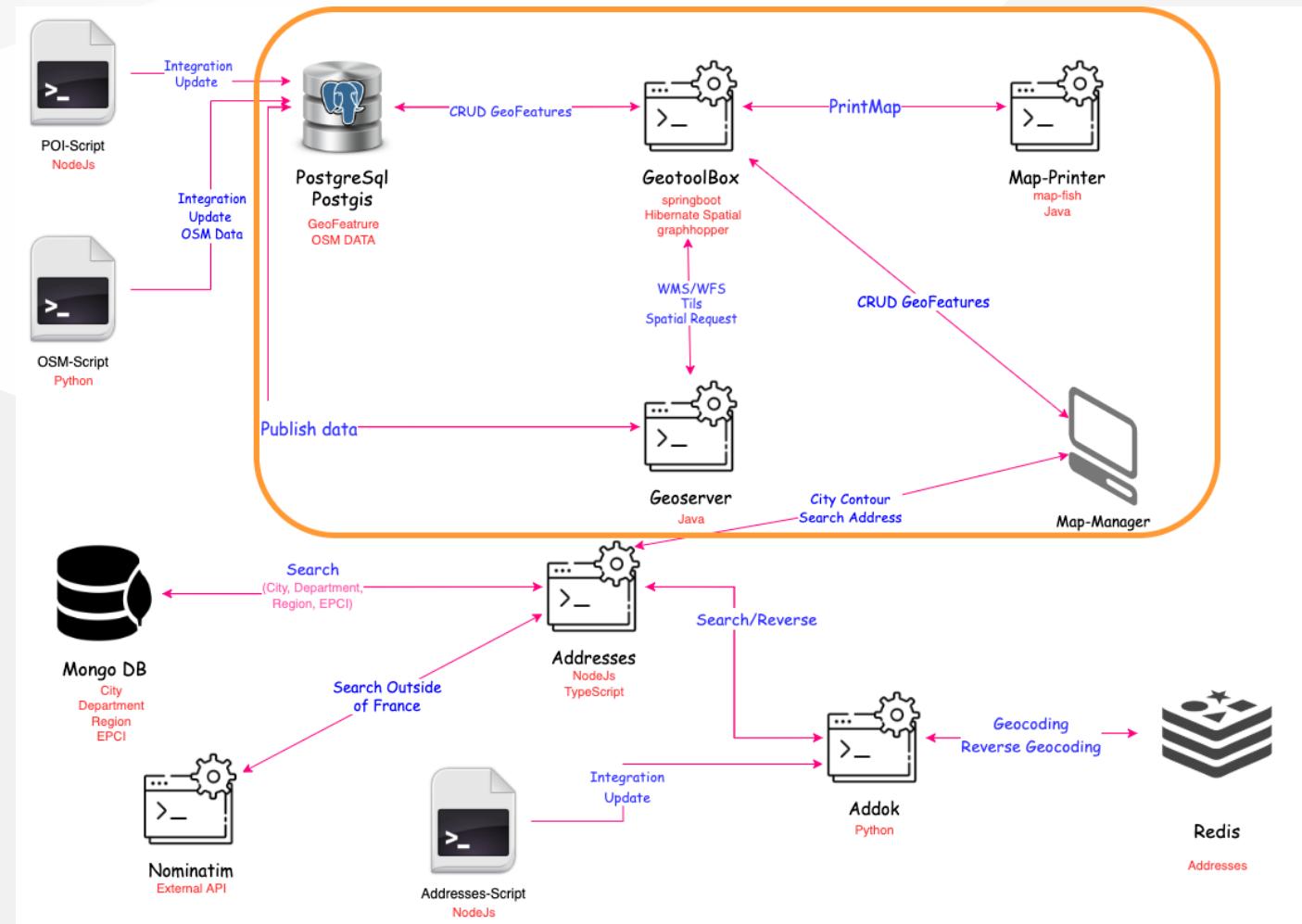
- Point
- Ligne (LineString)
- Polygone (Polygon)



# Le stage

Refactorisation de l'application SIG

# Architecture SIG



# Existant

## Map Manager

Accueil

Gestion des cartes et des données géographiques

Nouveautés  
F.A.Q.  
Mentions légales  
Logitud.fr

**logitud**

Map Manager  
Version 0.8.1

The screenshot shows the homepage of the Map Manager application. At the top, there's a header with the application logo and a red circular button labeled 'LL'. Below the header, there's a breadcrumb navigation: Accueil > secteurs > carte. The main content area has a teal background with the title 'Gestion des cartes et des données géographiques'. On the left, there's a sidebar with links to 'Nouveautés', 'F.A.Q.', 'Mentions légales', and 'Logitud.fr'. The main content area features three large icons: 'SECTEURS' (a blue square with a white outline), 'POI' (a blue location pin with an exclamation mark), and 'ITINÉRAIRES' (a blue route line icon). A large map is visible in the background.

## Map Manager

Accueil secteurs carte

Assistance et support

Recherche par types Recherche par contextes Recherche par adresse

Sélectionner un ou plusieurs types

LANCER LA RECHERCHE

Carte Import Paramètres

Liste de données

+ AJOUTER

Nom	Type	Description	Parent	Couleur	Géométrie
martini					

Nouveautés  
F.A.Q.  
Mentions légales  
Logitud.fr

**logitud**

Map Manager  
Version 0.8.1

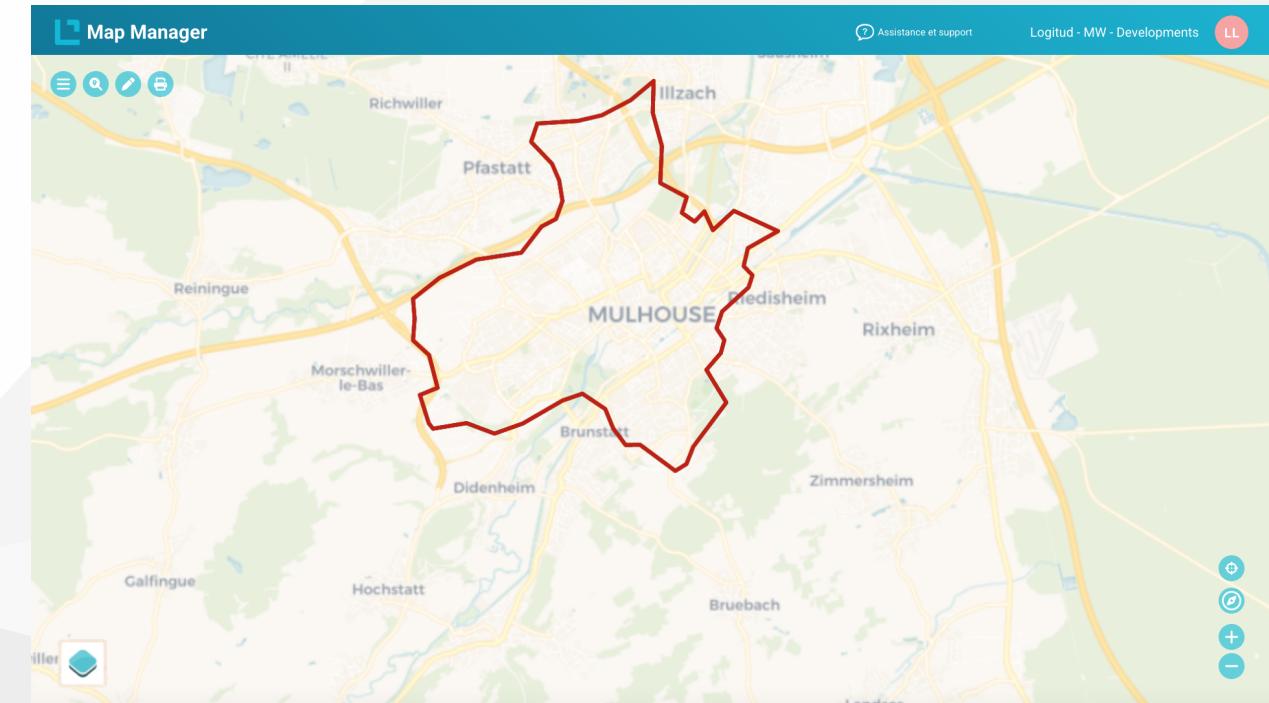
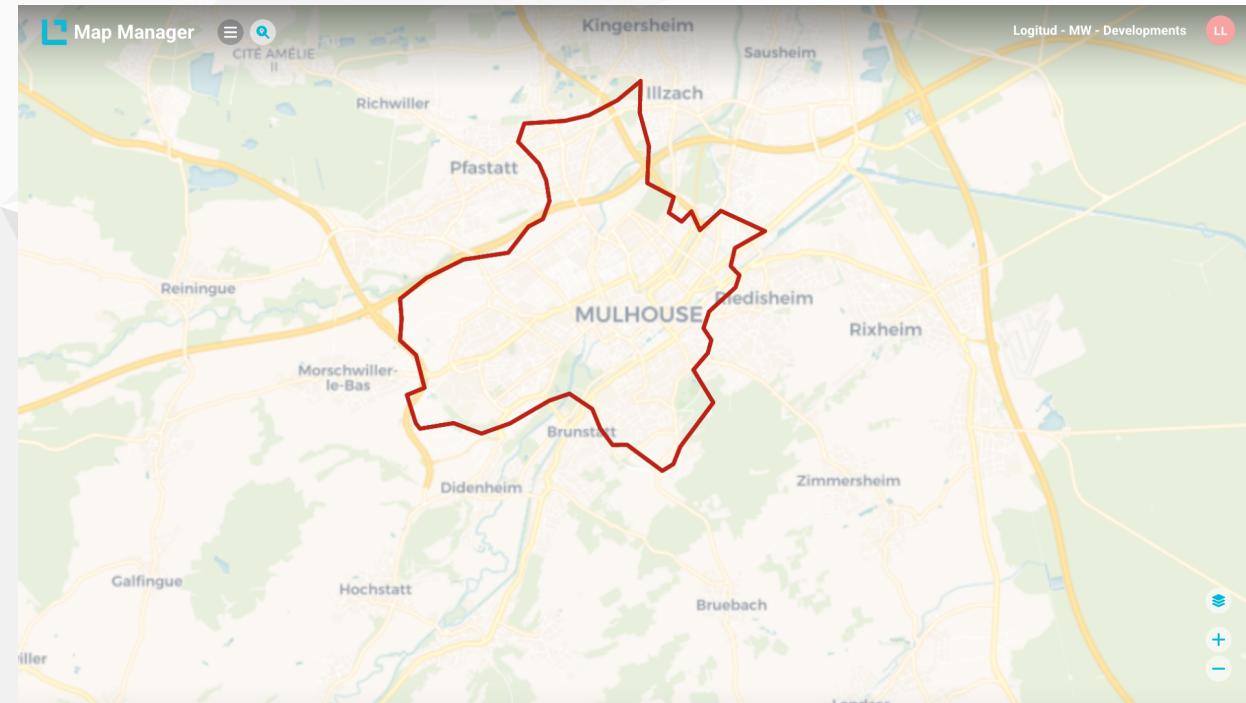
This screenshot shows the 'secteurs' section of the Map Manager application. It includes a map view with various colored areas, a search bar with dropdown menus for 'Recherche par types', 'Recherche par contextes', and 'Recherche par adresse', and a 'Lancer la recherche' button. Below the map, there are tabs for 'Carte', 'Import', and 'Paramètres'. A 'Liste de données' section contains a table with columns: Nom, Type, Description, Parent, Couleur, and Géométrie. The first row in the table shows a martini glass icon. The sidebar on the left is identical to the one in the previous screenshot.

# Documentation

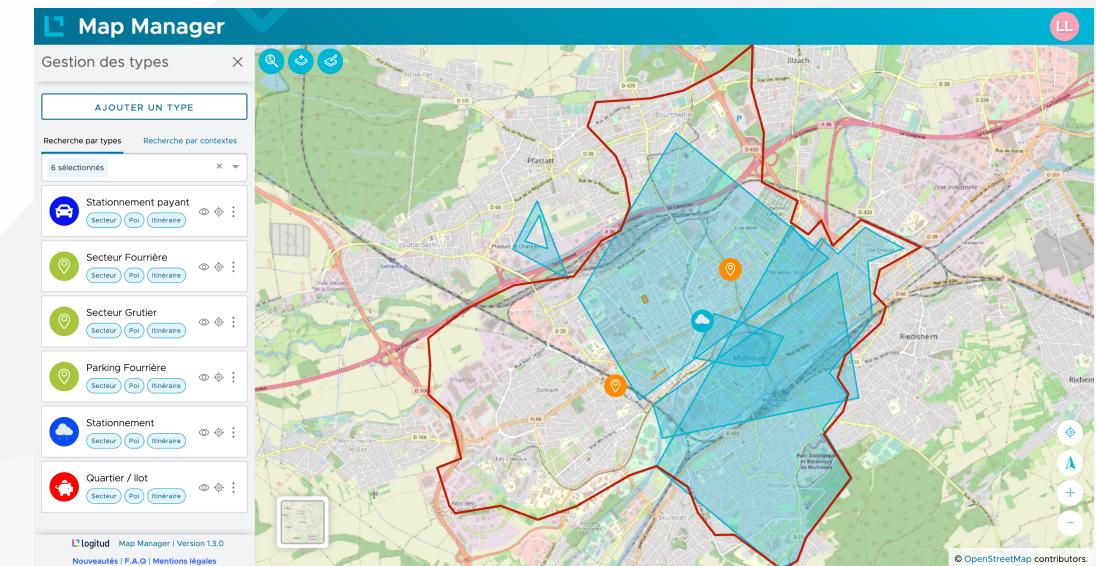
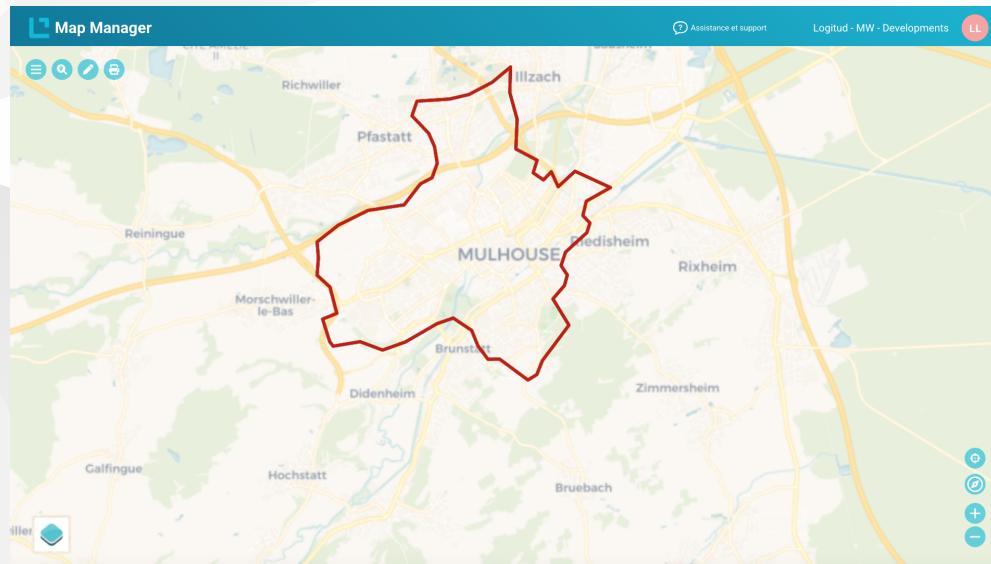
Manual Testing

Document produit

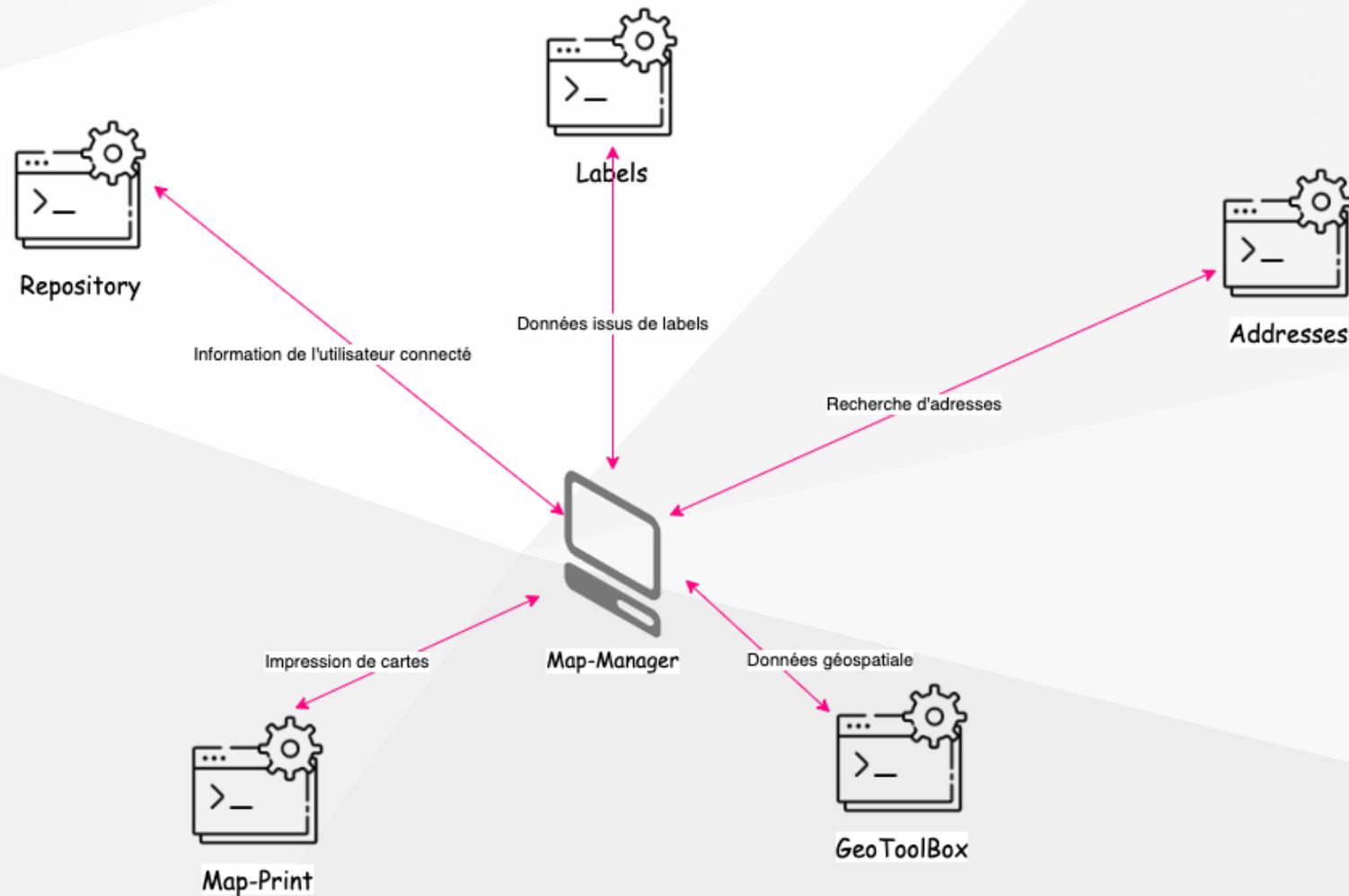
# Prototypage



# Intégration de la maquette

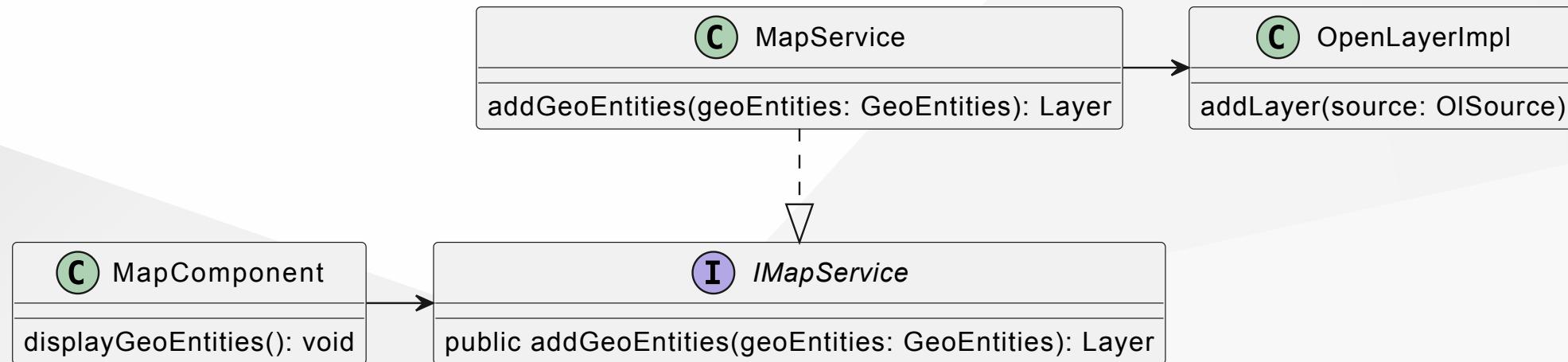


# Interaction avec les services externes

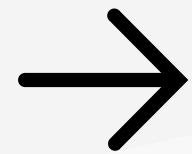
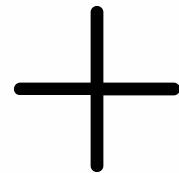


# Intéractions avec la carte

Pattern adapter:



# Sémiologie



# Récupération de l'icône

```
IconLibrary.getIcon(iconName: string): SVGIcon
```

- Labels 😊 :

```
data:image/{...};base64,{...}
```

- Fontawesome 😐 :

```
<svg xmlns="http://www.w3.org/2000/svg"><path>{...}</path></svg>
```

- Clarity 😕 :



```
<svg xmlns="http://www.w3.org/2000/svg" class="can-badge can-alert has-solid">
  <path d="..." class="clr-i-outline clr-i-outline-path-1"></path>
  <path d="..." class="clr-i-outline clr-i-outline-path-2"></path>
  <path d="..." class="clr-i-outline clr-i-outline-path-3"></path>

  <path d="..." class="clr-i-outline--badged clr-i-outline-path-1--badged"></path>
  <path d="..." class="clr-i-outline--badged clr-i-outline-path-2--badged"></path>
  <path d="..." class="clr-i-outline--badged clr-i-outline-path-3--badged"></path>
  <path d="..." class="clr-i-outline--alerted clr-i-outline-path-1--alerted"></path>
  <path d="..." class="clr-i-outline--alerted clr-i-outline-path-2--alerted"></path>
  <path d="..." class="clr-i-outline--alerted clr-i-outline-path-3--alerted"></path>
  <path d="..." class="clr-i-outline--alerted clr-i-outline-path-4--alerted clr-i-alert"></path>
  <path d="..." class="clr-i-solid clr-i-solid-path-1"></path>
  <path d="..." class="clr-i-solid--badged clr-i-solid-path-1--badged"></path>
  <path d="..." class="clr-i-solid--alerted clr-i-solid-path-1--alerted"></path>
  <path d="..." class="clr-i-solid--alerted clr-i-solid-path-1--alerted clr-i-alert"></path>
</svg>
```

```
const CSS_BLACKLIST = [
  "clr-i-solid",
  "clr-i-badge",
  "clr-i-alert",
  "clr-i-solid--alerted",
  "clr-i-solid--badged",
];

const removeBlacklistedNodes = (nodeElements) => {
  nodeElements.forEach((node) => {
    if (node.nodeType === Node.ELEMENT_NODE) {
      // Recursively filter nodes
      if (node.childNodes?.length > 0) {
        removeBlacklistedNodes(node.childNodes);
      }

      // Element classes
      const cssClasses =
        (node as Element).getAttribute("class")?.split(" ") ?? [];

      // Remove blacklisted node
      if (CSS_BLACKLIST.filter((bl) => cssClasses.includes(bl)).length > 0) {
        node.parentNode.removeChild(node);
      }
    }
  });
};

// Remove blacklisted nodes
removeBlacklistedNodes(svgElement.childNodes);
```

# Import de géométries

- GeoJSON
- KML
- Shapefile

← Import X

Système de coordonnées

Projection  
WGS 84

Correspondance des attributs

Type \*  
test MM

Nom \*  
Sélectionner un attribut

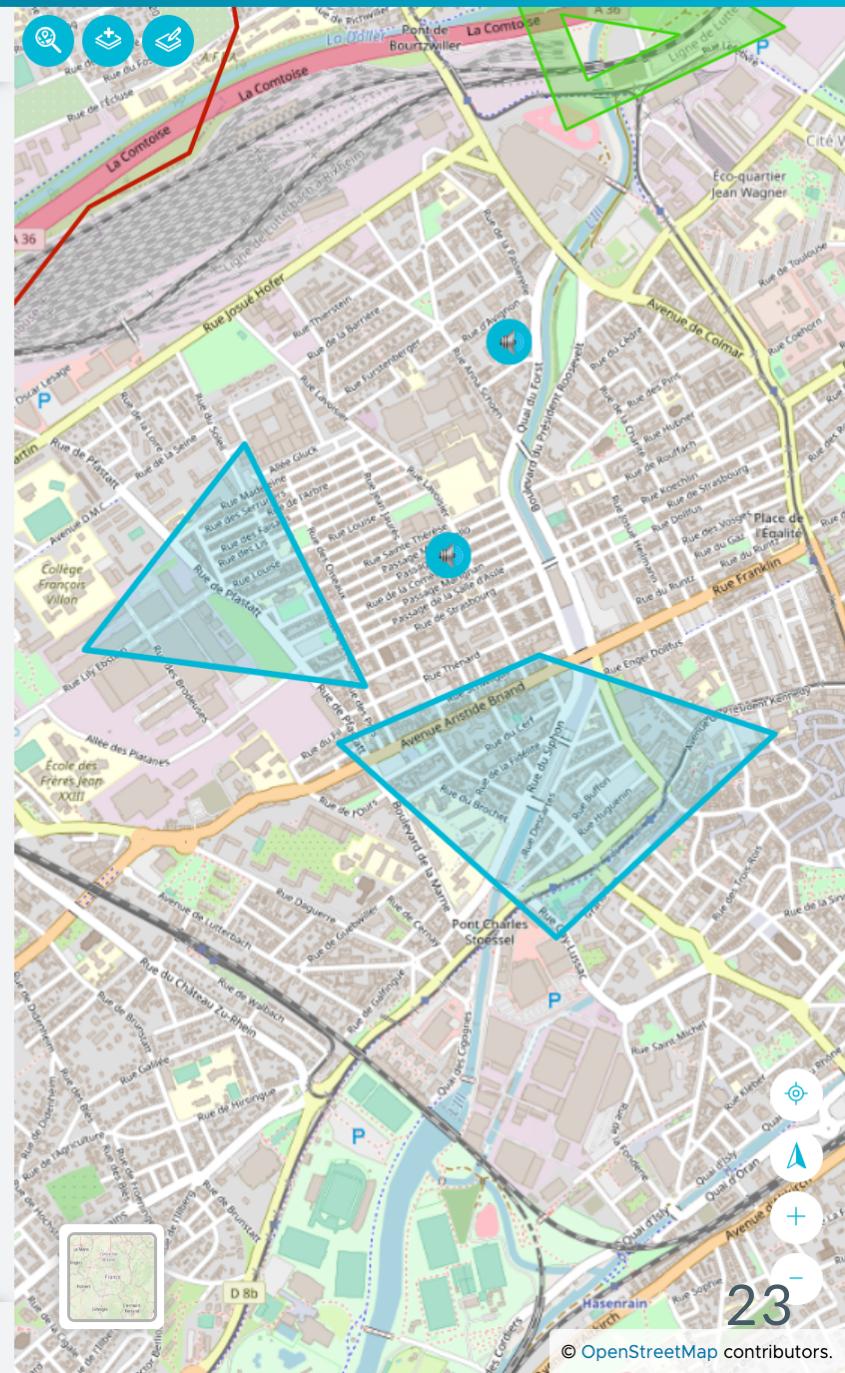
Description  
Sélectionner un attribut

Couleur  
Sélectionner un attribut

informations supplémentaires

\_uuid  
 label  
 style:fill-color  
 style:fill-opacity  
 style:label-color  
 style:label-size  
 style:stroke-color  
 style:stroke-opacity  
 style:stroke-width

**IMPORTER**



# Format de données

```
{  
  // GeoJSON  
  "type": "FeatureCollection",  
  "features": [  
    {  
      "type": "Feature",  
      "properties": {},  
      "geometry": {  
        "type": "Point",  
        "coordinates": [7.297759652137755, 47.745773344324796]  
      }  
    }  
  ]  
}
```

# Documentation des modifications et livraisons

- Convention:

```
feat|fix|docs|style|refactor|perf|test|chore(scope?): add...
```

- Exemple

```
fix(edit-geolayer): data initialized with geolayer on cancel
```

- Changelog version 1.2.0

## 1.2.0 (2022-05-19)

### Features

- add padding to fit extent function ([620bef0](#))
- add spinner to map ([07d4af5](#))
- disable highlight on outside click ([8321dbe](#))
- handle multi customer cities and load them after initialization ([75a7af2](#))

### Bug Fixes

- display correct projection in modal, refactor ([d45e8c1](#))
- **edit-geolayer:** data initialised with geolayer on cancel ([1a3a2c7](#))
- **file-upload:** fix style and refactor ([fb62f76](#))
- geolayers highlighting with import view ([a9c0bd6](#))
- hide popup when features are removed ([6641d88](#))
- **import:** file is removed when import done ([93d557d](#))
- **metadata:** stop event propagation in geoLayers and geoFeatures components ([0a346ee](#))
- popup size from content ([c01dc02](#))
- sidebar default opened ([145ab3e](#))
- **sidebar:** x-overflow hidden ([8c1ab97](#))
- switching between tools and replace misused takewhile by filter operators ([6f35373](#))



# Améliorations et perspectives

- Personnalisation utilisateur
- Impression
- Viewer Mapillary
- Nouvelles demandes des clients

# Conclusion

- ✓ Répond aux besoins
- ✓ Ergonomique, fonctionnel
- ✓ Rapidité de développement

→ Problématique résolue

# Questions