

# Formulaires QGIS avancés sur le web avec Lizmap

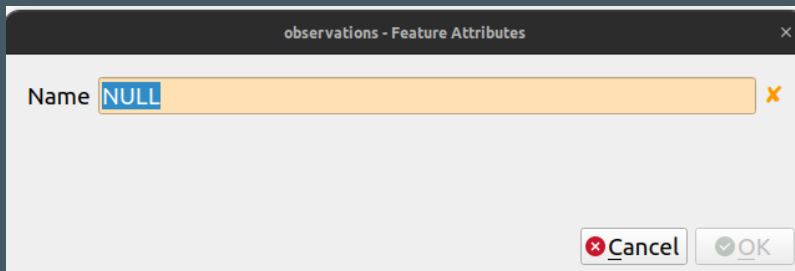
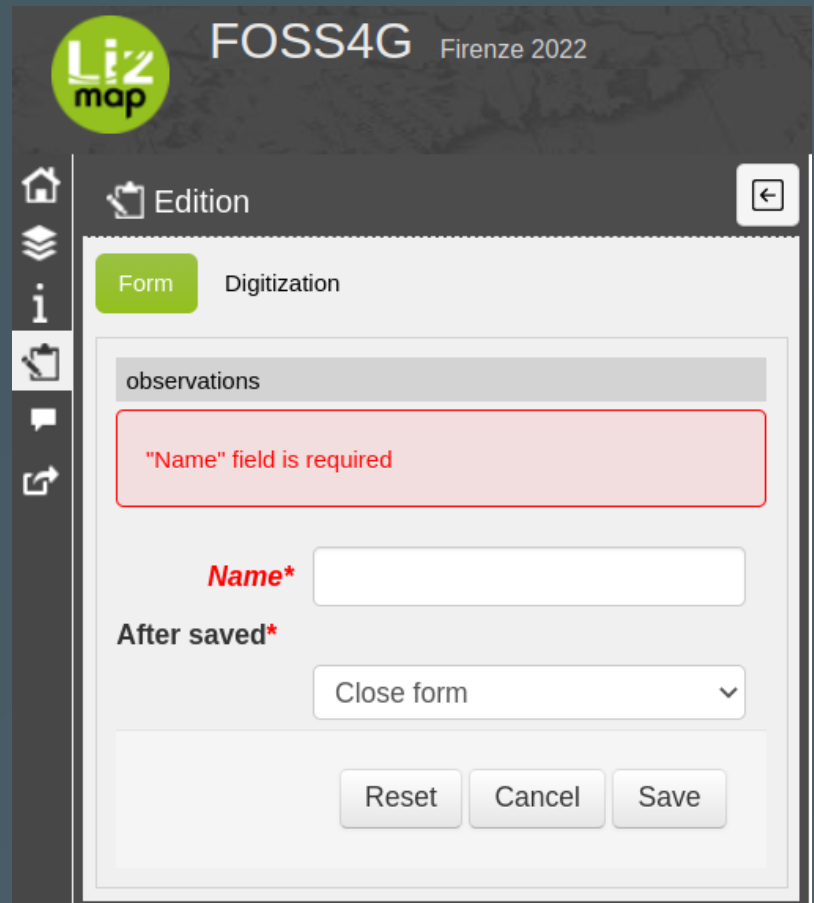


René-Luc DHONT - 3LIZ



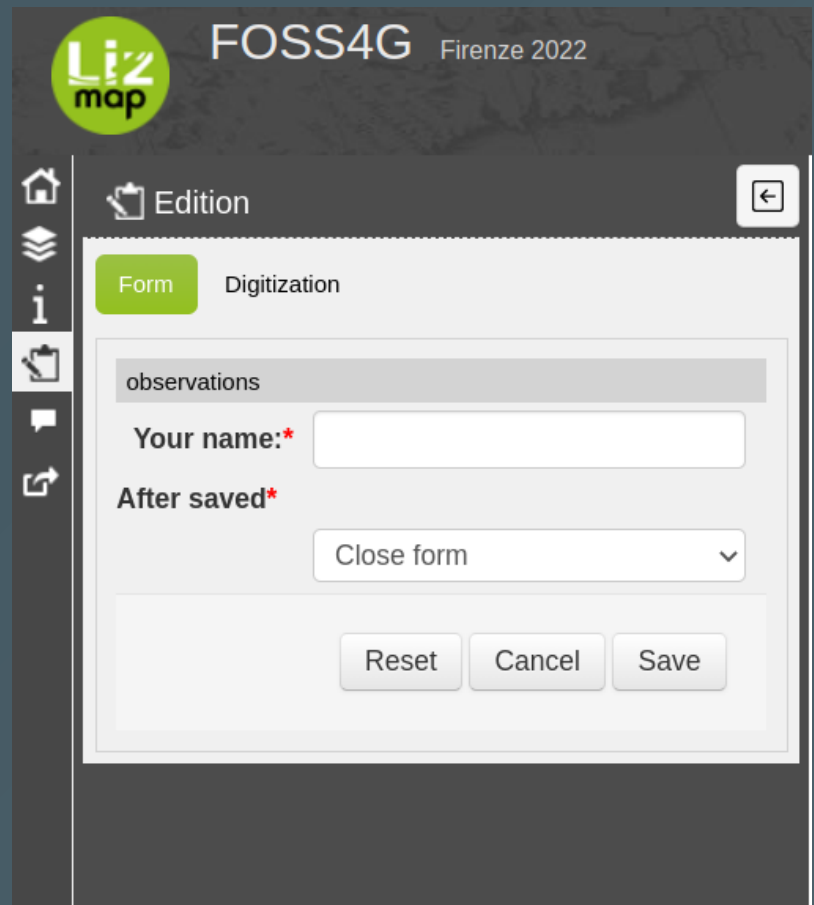
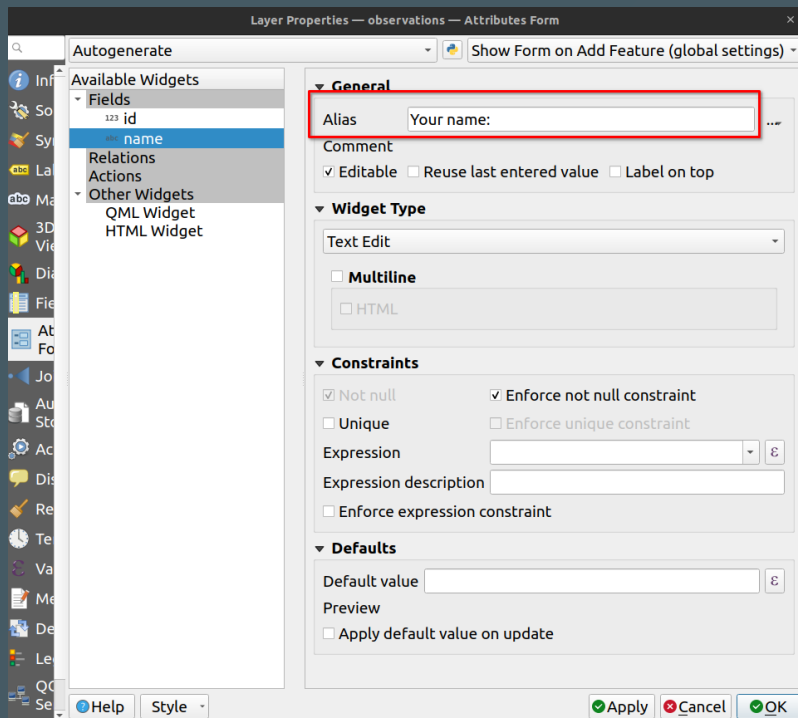
# Les champs obligatoires

- Pour les champs définis comme `NOT NULL` dans PostgreSQL
- Ou avec une contrainte `Non nul` dans le formulaire QGIS

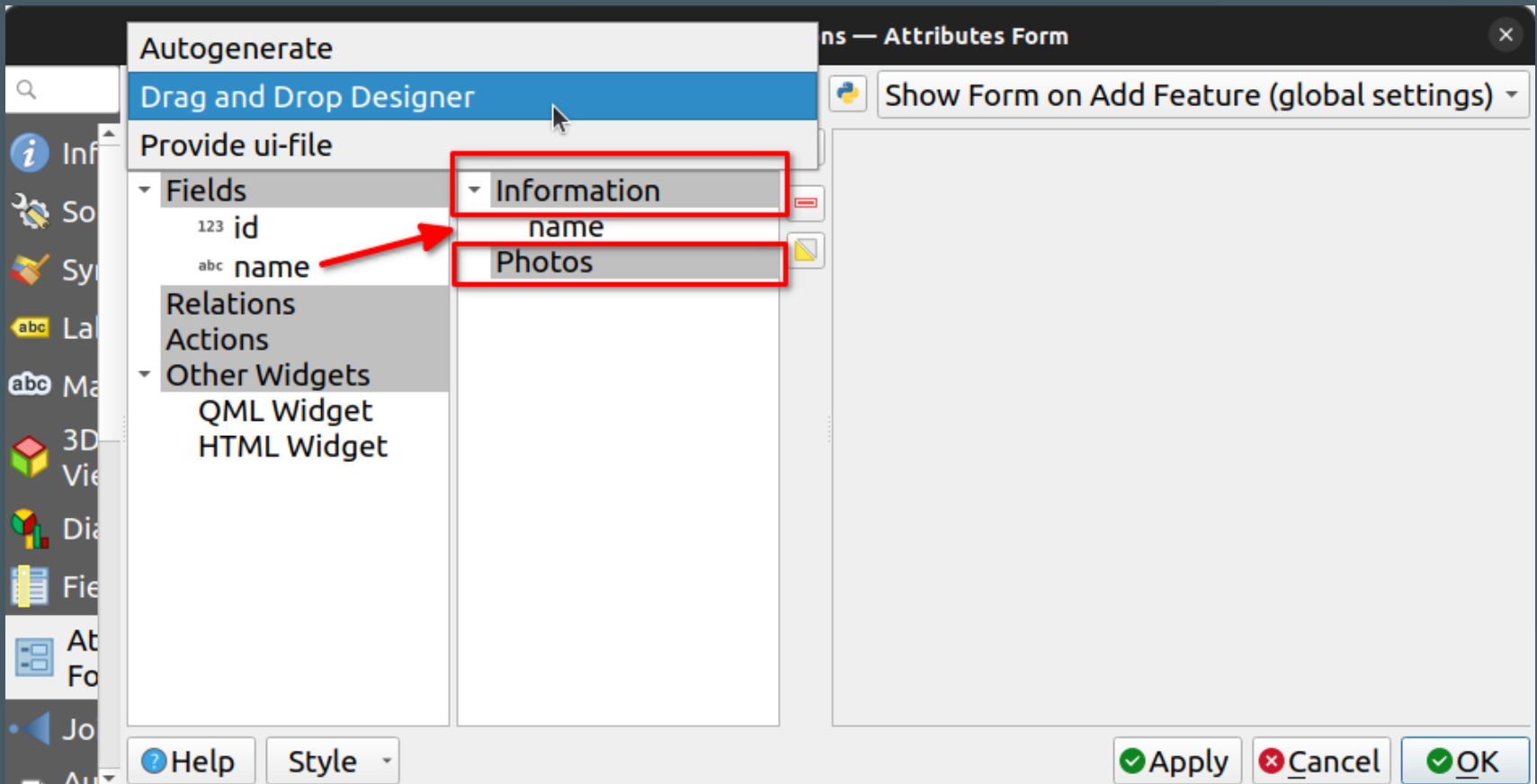
# Alias de champs

- Définissez des alias pour vos champs



# Organiser les champs du formulaire

- En utilisant la Conception par glisser / déposer



# Les onglets

observations - Feature Attributes

Information Photos

Your name: NULL

Cancel OK

Liz map FOSS4G Firenze 2022

Home Layers Information Clipboard Chat Share

Edition

Form Digitization

observations

Information Photos

Your name:\*

After saved\*

Close form

Reset Cancel Save

# Les boîtes de groupe

observations - Feature Attributes


**Information**






Your name:



**Photos**

Photo 1

Photo 2

 FOSS4G Firenze 2022

 Edition 

observations

**Information**

Your name:\*

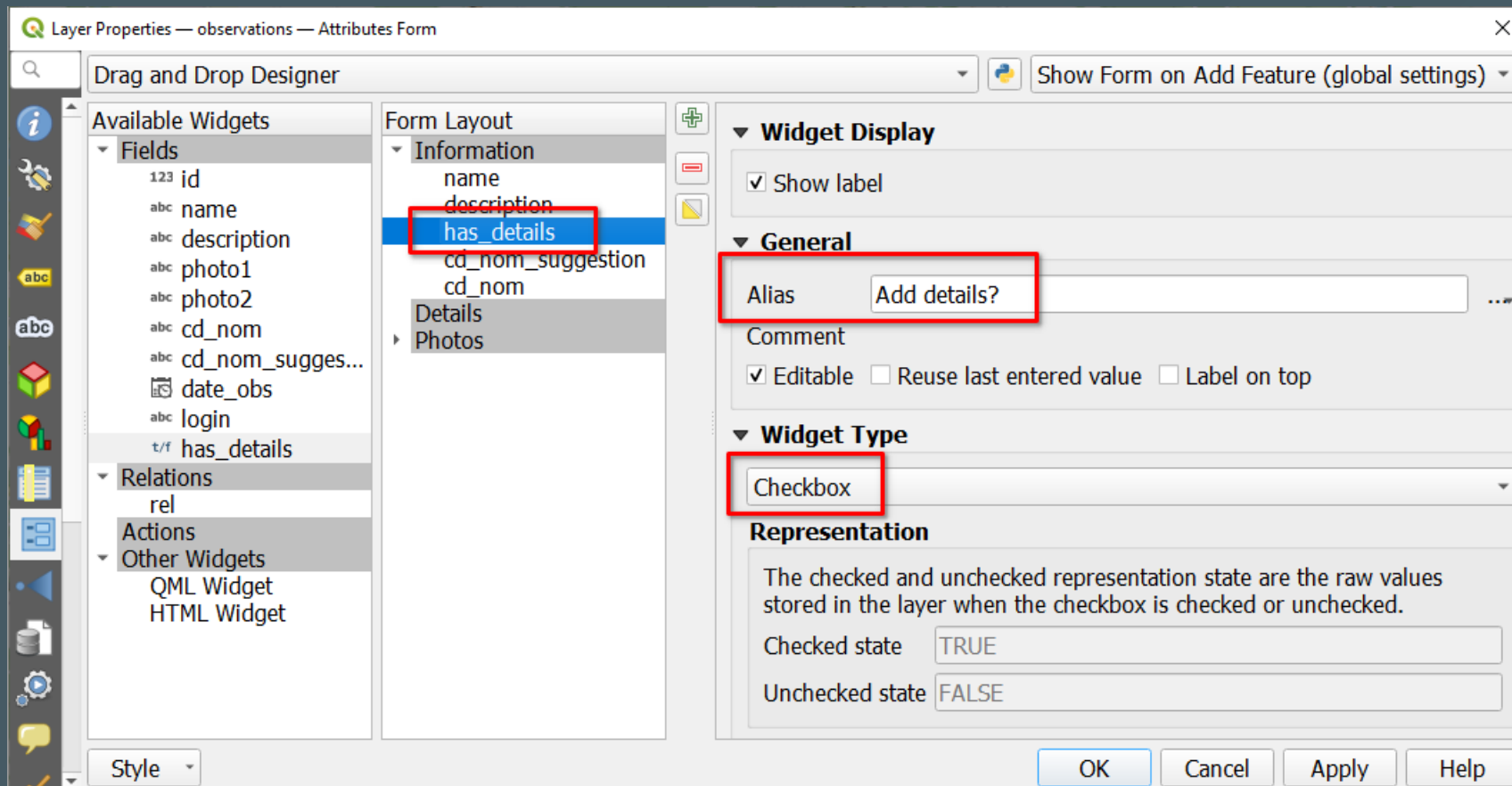
**Photos**

Photo 1

Photo 2

**After saved\***

# Modifier la visibilité des onglets ou des boîtes de groupe en fonction d'une règle



Layer Properties — observations — Attributes Form

Drag and Drop Designer

Show Form on Add Feature (global settings)

**Available Widgets**

- Fields
  - id
  - name
  - description
  - photo1
  - photo2
  - cd\_nom
  - cd\_nom\_sugges...
  - date\_obs
  - login
  - has\_details
- Relations
  - rel
- Actions
- Other Widgets
  - QML Widget
  - HTML Widget

**Form Layout**

- Information
  - name
  - description
  - has\_details
  - cd\_nom\_suggestion
  - cd\_nom
- Details
- Photos

**Widget Display**

- ☒ Show label

**General**

Alias: Add details?

Comment

- ☒ Editable
- ☐ Reuse last entered value
- ☐ Label on top

**Widget Type**

Checkbox

**Representation**

The checked and unchecked representation state are the raw values stored in the layer when the checkbox is checked or unchecked.

Checked state: TRUE

Unchecked state: FALSE

OK Cancel Apply Help

Layer Properties — observations — Attributes Form

Drag and Drop Designer

Show Form on Add Feature (global settings)

**Available Widgets**

- Fields
  - 123 id
  - abc name
  - abc description
  - abc photo1
  - abc photo2
  - abc cd\_nom
  - abc cd\_nom\_sugges...
  - date\_obs
  - login
  - t/f has\_details
- Relations
  - rel
- Actions
- Other Widgets
  - QML Widget
  - HTML Widget

**Form Layout**

- Information
  - name
  - description
  - has\_details
  - cd\_nom\_suggestion
  - cd\_nom
  - Details**
  - Photos

☒ Show label

☐ Show as group box

Title

Columns

☒ **Control Visibility by Expression**







**Style**

Background color

Style

OK Cancel Apply Help



Édition

Formulaire

Digitalisation

observations

Information

Photos

Your name:\*

Nicolas

Description

☐

Add details?

Scientific name (suggestion)

Scientific name

Après enregistrement\*

Fermer le formulaire

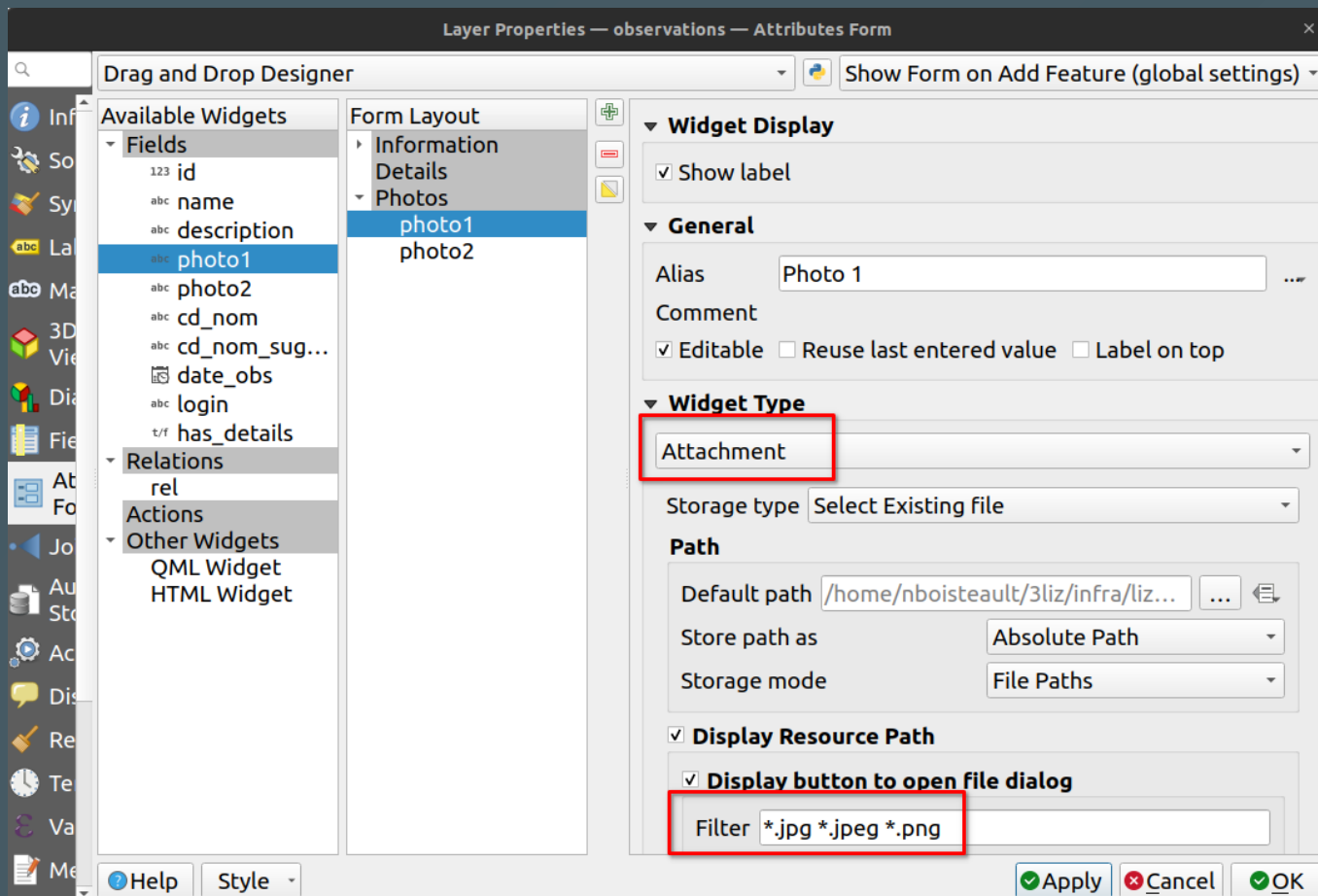
Réinitialiser

Annuler

Enregistrer

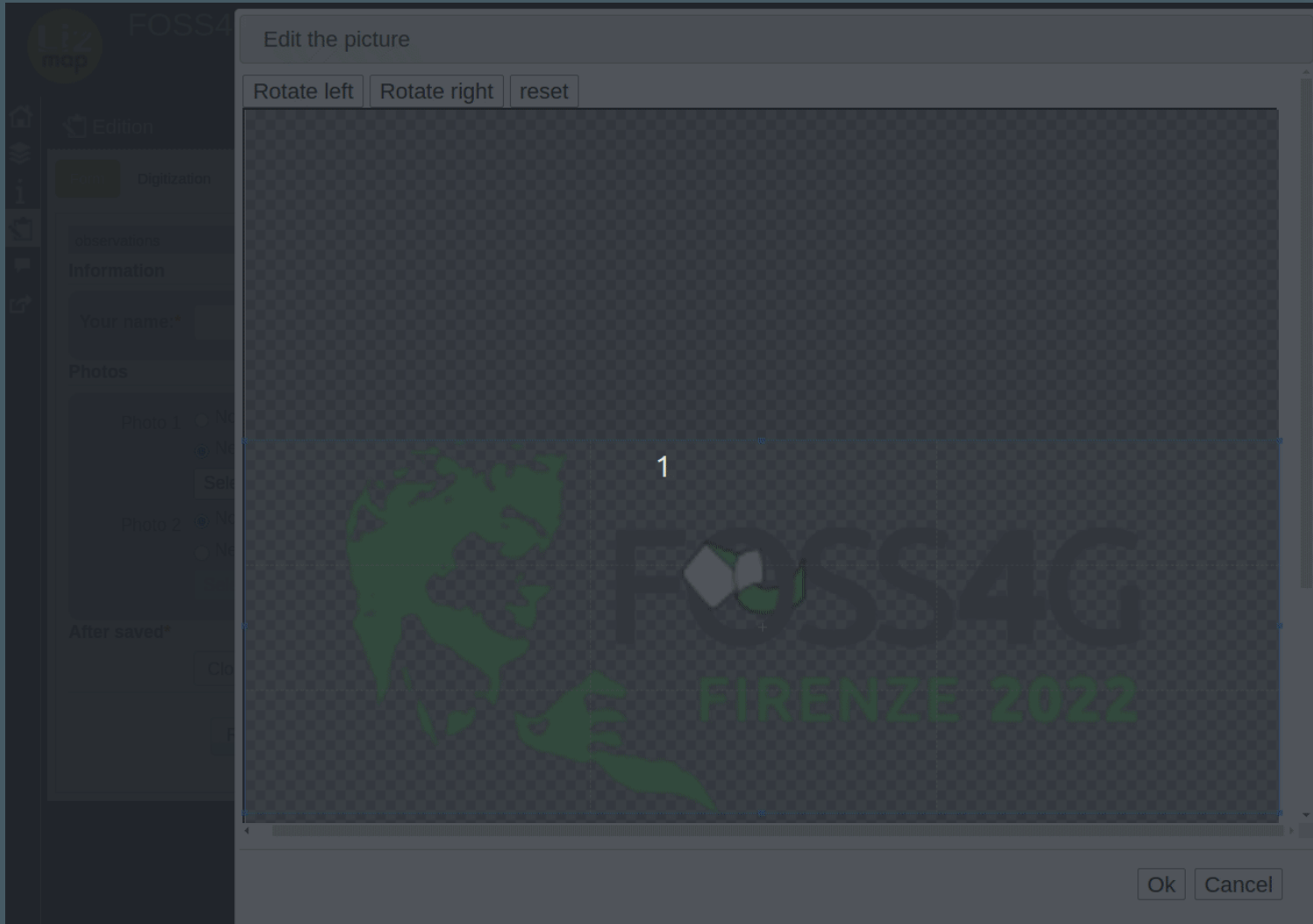
# Uploade de photos

- Utilisez l'outil **Pièce jointe** et le paramètre **Filtre** pour définir les extensions autorisées





- Modifier les images directement dans Lizmap



# Contraintes avec expression

Layer Properties — observations — Attributes Form

Drag and Drop Designer

Show Form on Add Feature (global settings)

**Available Widgets**

- Fields
  - 123 id
  - abc description
  - abc photo1
  - abc photo2
  - abc id\_animal
  - date\_obs
  - login
  - t/f has\_details
- Relations
  - rel
- Actions
- Other Widgets
  - QML Widget
  - HTML Widget

**Form Layout**

- Information
  - description
  - has\_details
  - id\_animal
- Details
- Photos

**Widget Display**

☒ Show label

**General**

Alias: Description

Comment

☒ Editable ☐ Reuse last entered value ☐ Label on top

**Widget Type**

Text Edit

☒ Multiline

☐ HTML

**Constraints**

☐ Not null ☐ Enforce not null constraint

☐ Unique ☐ Enforce unique constraint

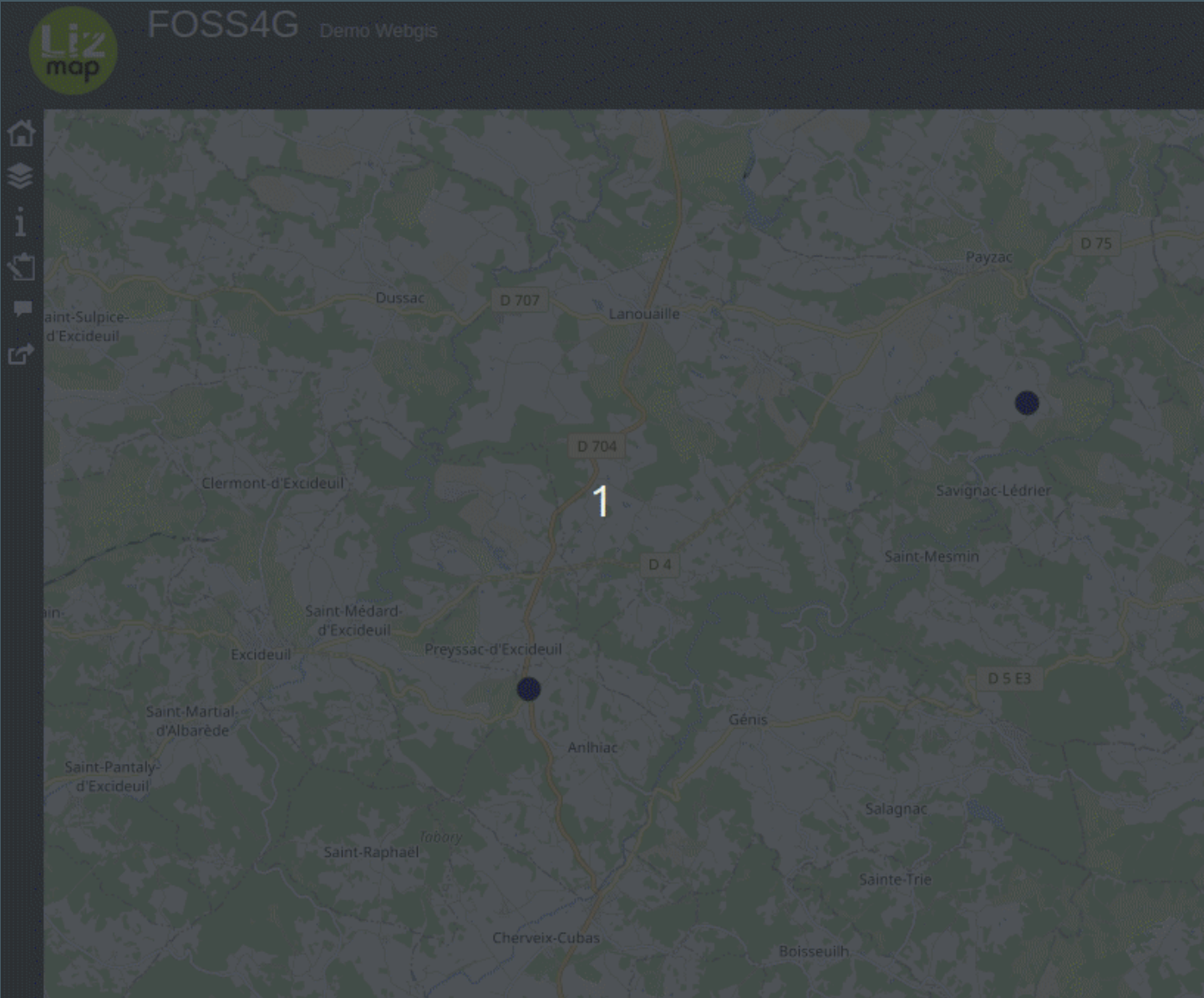
Expression: `length( "description" ) >= 30`

Expression description: Description must have at least 30 characters

Apply

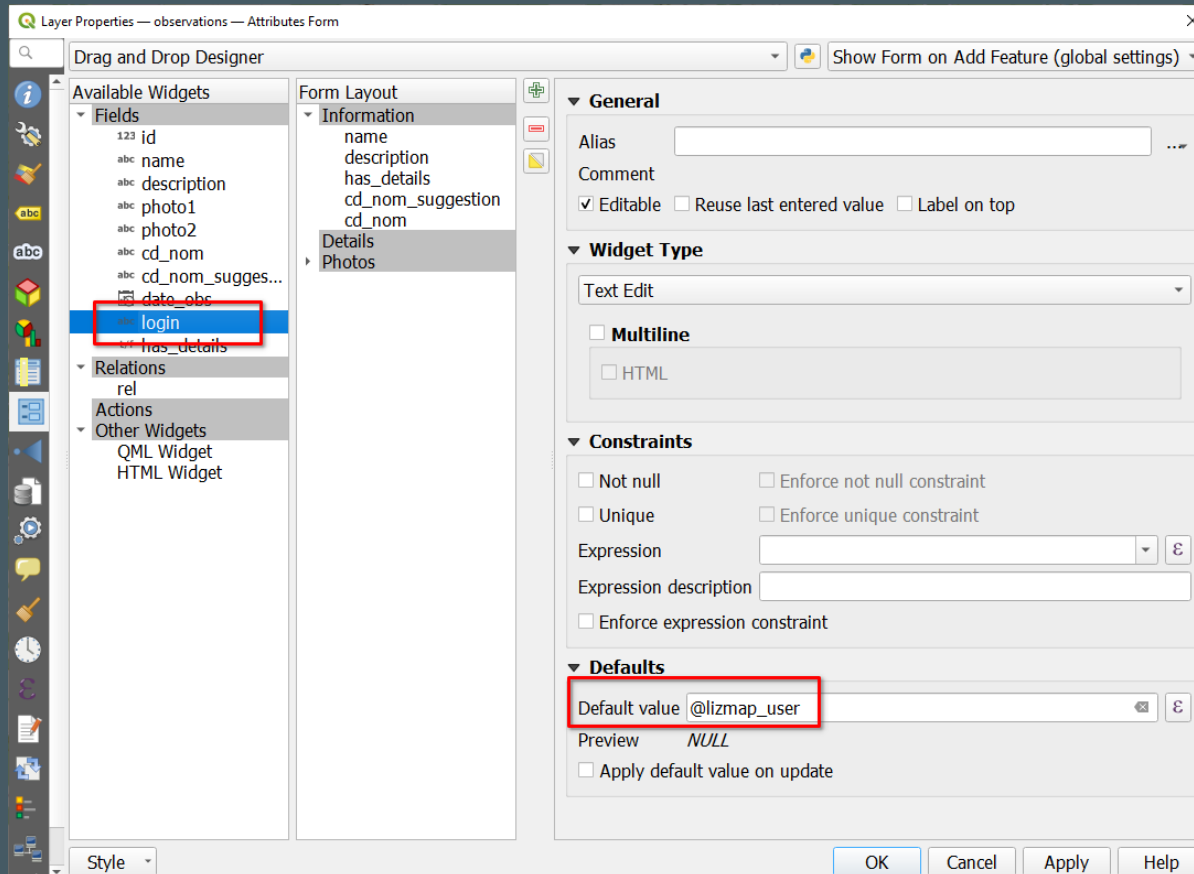
Cancel

OK



# Enregistrer le login et les groupes de l'utilisateur

- Avec les variables d'expression : `@lizmap_user` et `@lizmap_user_groups`



# Valeur relationnelle

Layer Properties — observations — Attributes Form

Drag and Drop Designer

Show Form on Add Feature (global settings)

**Available Widgets**

- Fields
  - 123 id
  - abc name
  - abc description
  - abc photo1
  - abc photo2
  - abc id\_animal
  - abc id\_animal\_su...
  - date\_obs
  - abc login
  - t/f has\_details
- Relations
  - rel
- Actions
- Other Widgets
  - QML Widget
  - HTML Widget

**Form Layout**

- Information
  - name
  - description
  - has\_details
  - id\_animal
- Details
- Photos

**Widget Display**

☒ Show label

**General**

Alias Scientific name

Comment

☒ Editable ☐ Reuse last entered value ☐ Label on top

**Widget Type**

Value Relation

Select layer, key column and value column

Layer amphibians\_reptiles

Key column abc id\_animal

Value column abc Scientific\_name

Description column 123

☐ Allow NULL value

☒ Order by value

☐ Allow multiple selections

Number of columns 1

☐ Use completer

Help Style Apply Cancel OK



# Édition

**Formulaire** Digitalisation

observations

**Information** Photos

**Your name:**\*

Description

☐ Add details?

Scientific name   
(suggestion)

Scientific name

**Après enregistrement\***

# Cas d'utilisation : suggestion basée sur l'enregistrement précédent

```
SELECT * FROM (  
  (  
    SELECT DISTINCT ON (login)  
      1 AS id,  
      obs.id_animal,  
      amph.scientific_name,  
      login  
    FROM foss4g.observations obs  
    LEFT JOIN foss4g.amphibians_reptiles amph  
    ON obs.id_animal = amph.id_animal  
    ORDER BY login, date_obs DESC  
  )  
  UNION ALL  
  (  
    SELECT row_number() over (ORDER BY scientific_name) + 1 AS id,  
      id_animal,  
      scientific_name,  
      NULL AS login  
    FROM foss4g.amphibians_reptiles  
  )  
) sub_query ORDER BY id
```

suggestion\_list — Features Total: 70, Filtered: 70, Selected: 0

	id	login	id_animal	scientific_name
1	1	alice	139	Triturus cristatus
2	1	bob	77600	Lacerta agilis
3	1	demo	79278	Zootoca vivipara
4	2	NULL	77580	Algyroides fitzingeri
5	3	NULL	197	Alytes obstetricans
6	4	NULL	77490	Anguis fragilis
7	5	NULL	77614	Archaeolacerta bedriagae
8	6	NULL	212	Bombina variegata
9	7	NULL	259	Bufo bufo
10	8	NULL	267	Bufo calamita
11	9	NULL	275	Bufo viridis
12	10	NULL	444427	Calotriton asper
13	11	NULL	77330	Caretta caretta
14	12	NULL	77871	Chalcides striatus
15	13	NULL	77338	Chelonia mydas
16	14	NULL	77955	Coronella austriaca
17	15	NULL	77963	Coronella girondica
18	16	NULL	77367	Dermochelys coriacea

Show All Features

Layer Properties — observations — Attributes Form

Drag and Drop Designer Show Form on Add Feature (global settings)

**Available Widgets**

- Fields
  - 123 id
  - abc name
  - abc description
  - abc photo1
  - abc photo2
  - abc id\_animal
  - abc id\_animal\_su...
  - abc date\_obs
  - abc login
  - t/f has\_details
- Relations
  - rel
- Actions
- Other Widgets
  - QML Widget
  - HTML Widget

**Form Layout**

- Information
  - name
  - description
  - has details
  - id\_animal
- Details
- Photos

**Widget Display**

☒ Show label

**General**

Alias

Comment

☒ Editable ☐ Reuse last entered value ☐ Label on top

**Widget Type**

Value Relation

Select layer, key column and value column

Layer

Key column

Value column

Description column

☐ Allow NULL value

☐ Order by value

☐ Allow multiple selections

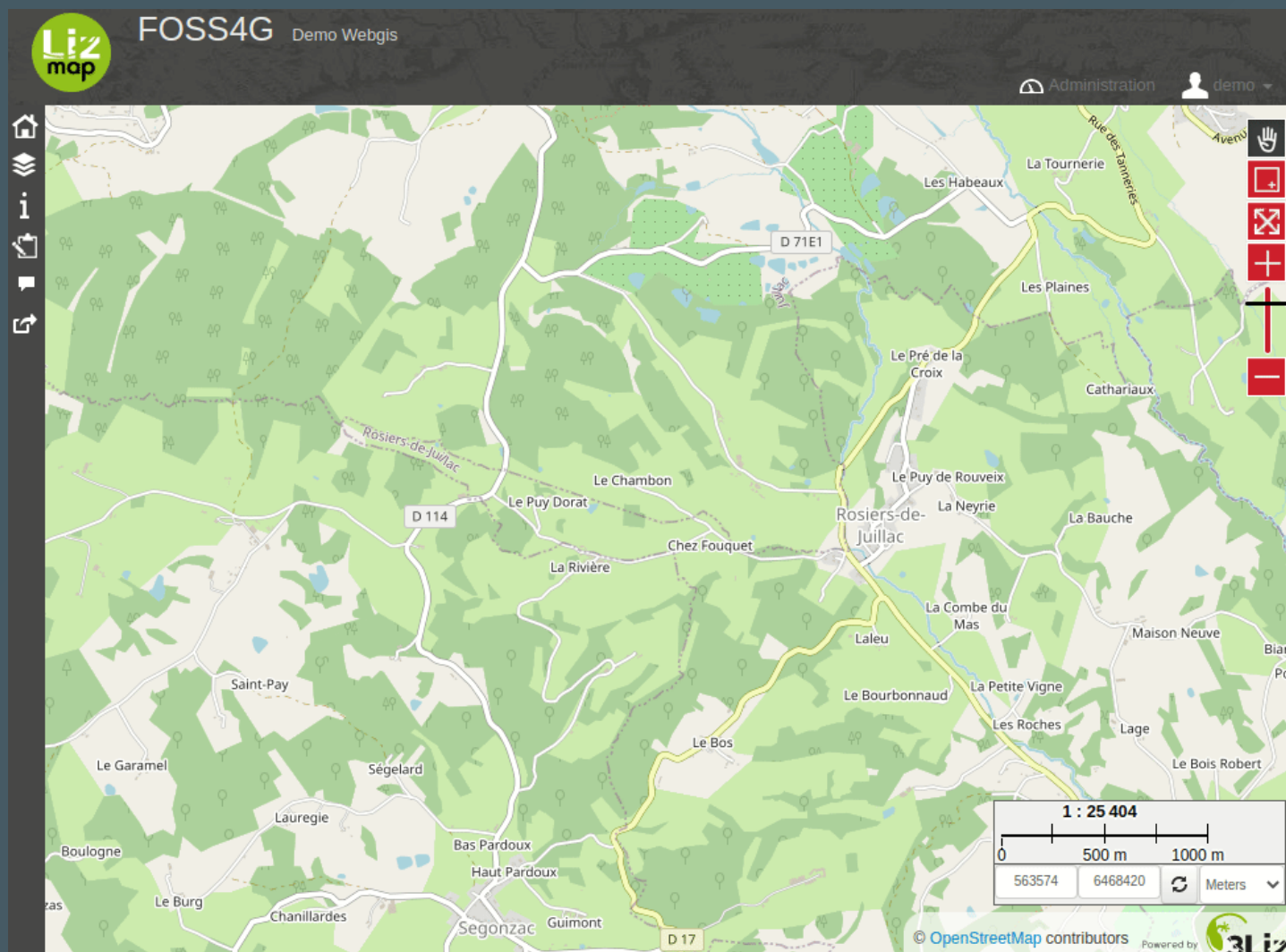
Number of columns

☐ Use completer

Filter expression

Help Style Apply Cancel OK

# Resultat



# Autres filtres

- Filtrage géographique

```
intersects($geometry, @current_geometry)
```

```
intersects($geometry, buffer(@current_geometry, 100))
```

- Liste en cascade

```
"code_reg" = current_value('code_reg')
```

```
"code_dep" = current_value('code_dep')
```

# Merci pour votre attention



- 3Liz: <https://3liz.com>
- Twitter 
  - René-Luc DHONT: <https://twitter.com/relucblog>
  - 3Liz: [https://twitter.com/3LIZ\\_news](https://twitter.com/3LIZ_news)
- LinkedIn
  - René-Luc DHONT: <https://www.linkedin.com/in/rldhont>
  - 3Liz: <https://www.linkedin.com/company/3liz/>
- Lizmap: <https://lizmap.com>