Gazetteer Creation

Kiki Nur Putra

Introduction

Gazetteer Creator

Plugin Gazetteer Creator

Gazetteer_Creator.exe

Components

Python 3

QGIS

Libraries :

- GeoPandas : manage spatial data
- pandas : manage attribute table
- FPDF : creating and setting pdf file
- datetime : calculate dates
- os : manage file directory
- math : number calculations

Libraries :

- GeoPandas
- pandas
- FPDF
- datetime
- os
- math

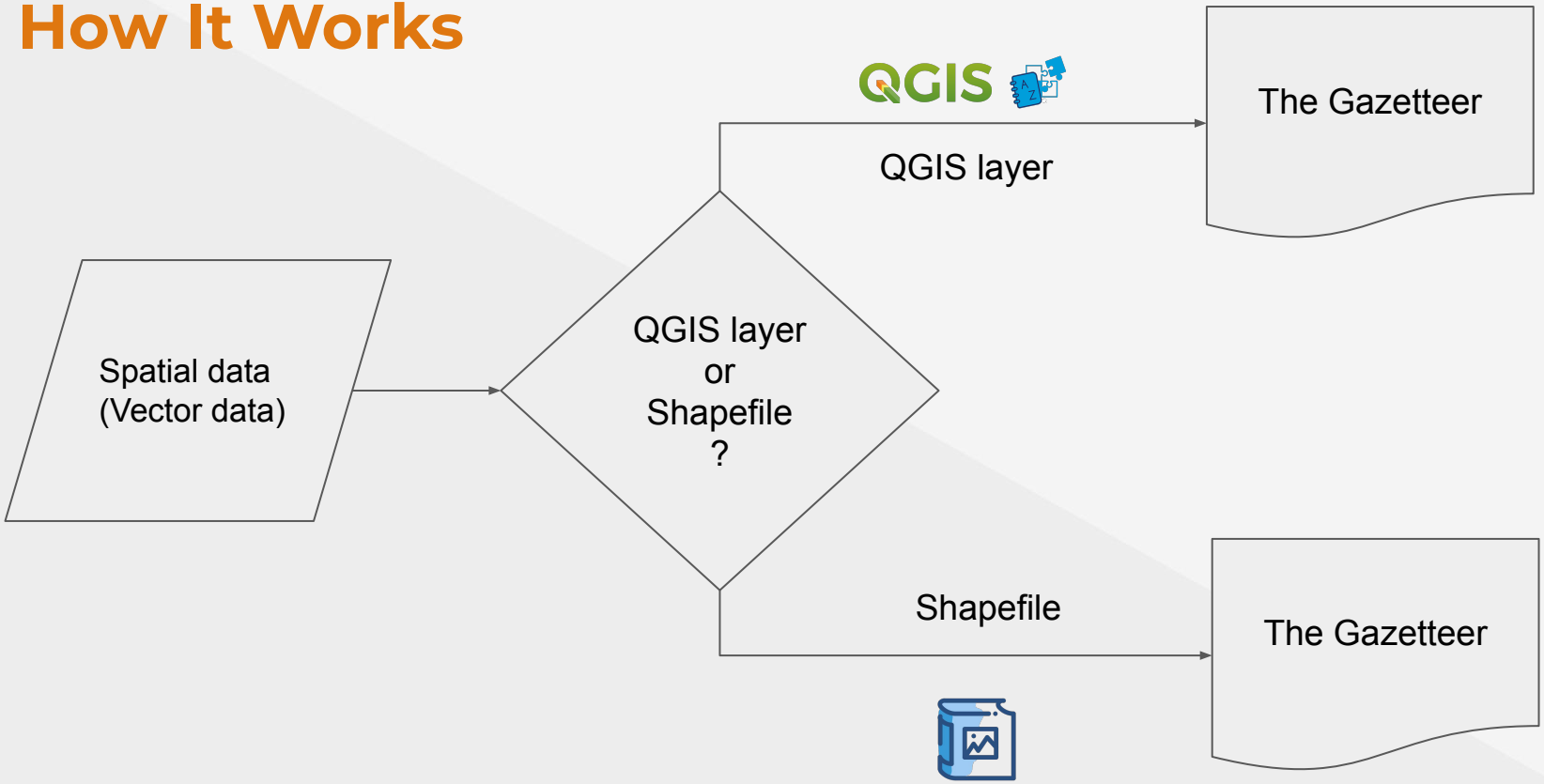
+

PySimpleGUI™

The Differences

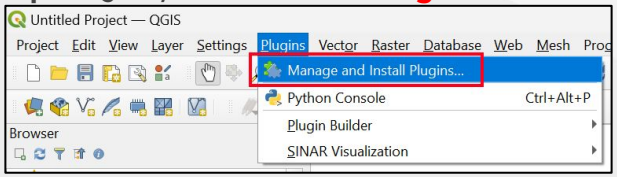
QGIS	Gazetteer_Creator.exe
Compatibility: Part of QGIS	Only for Windows OS
Input data from QGIS layer (shapefile, geojson)	Input only from shapefile
One input per geometry type	No limitation of input data
Fixed columns setting	Customizable columns setting
Personally: it's harder to develop	Personally: it's easier to develop

How It Works

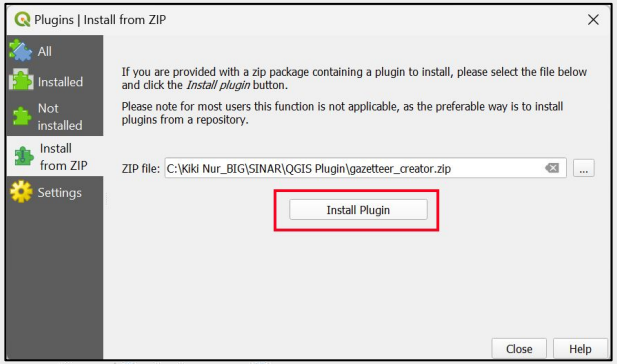

QGIS
The Gazetteer
QGIS layer
Spatial data
(Vector data)
QGIS layer
or
Shapefile
?
Shapefile
The Gazetteer

Installation QGIS

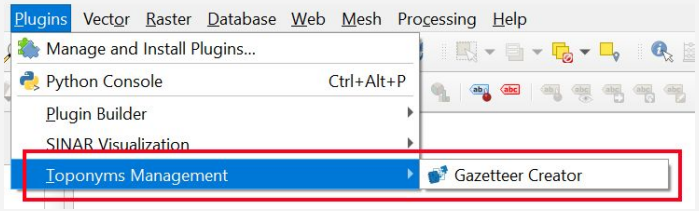
1. Download from **toponim.id/2023/modules**
2. Open QGIS, then select **Manage and Install Plugins**



3. Select Install from ZIP, then browse the zip file, select Install Plugin. ***make sure you have internet connection for the first time.**



Result:



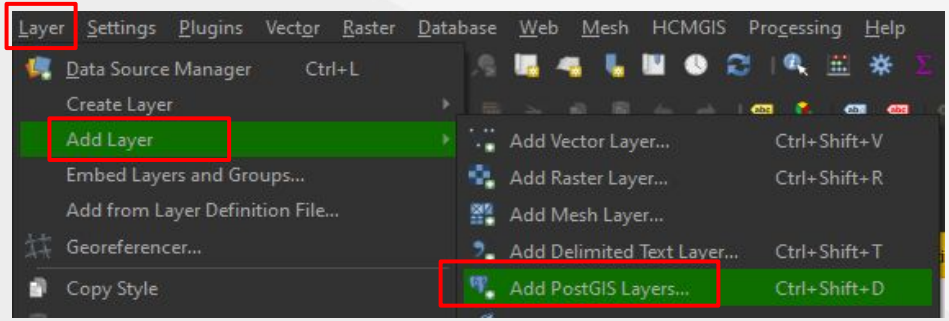
Installation

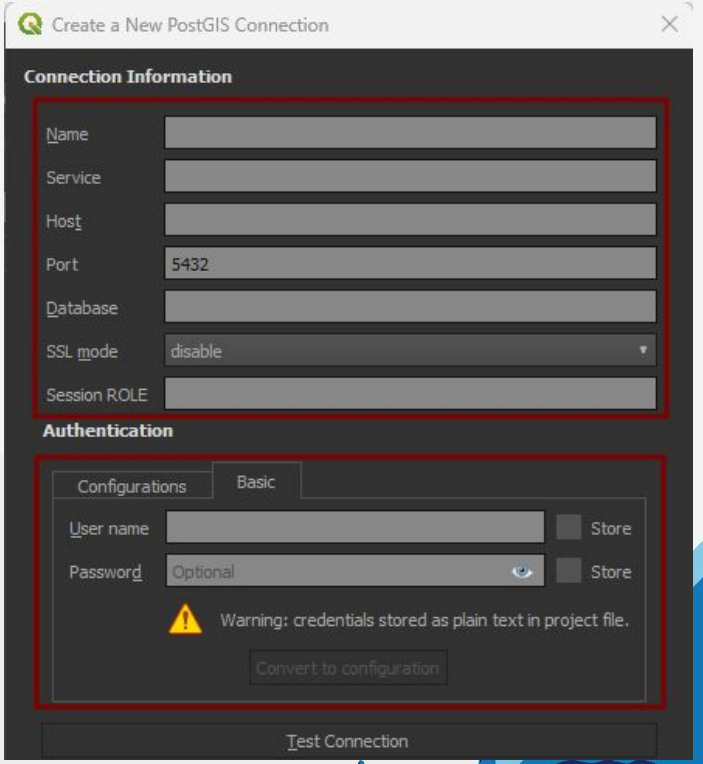
Gazetteer_Creator.exe

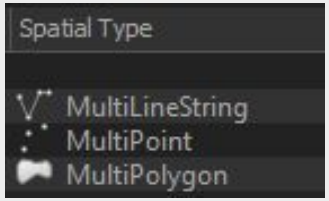
1. Download from **toponim.id/2023/modules**
2. No installation process is required, it can be directly run on the computer (windows OS).
   ***recommended Windows 10 or later**

Gazetteer Creation QGIS

1. Add the data from PostGIS

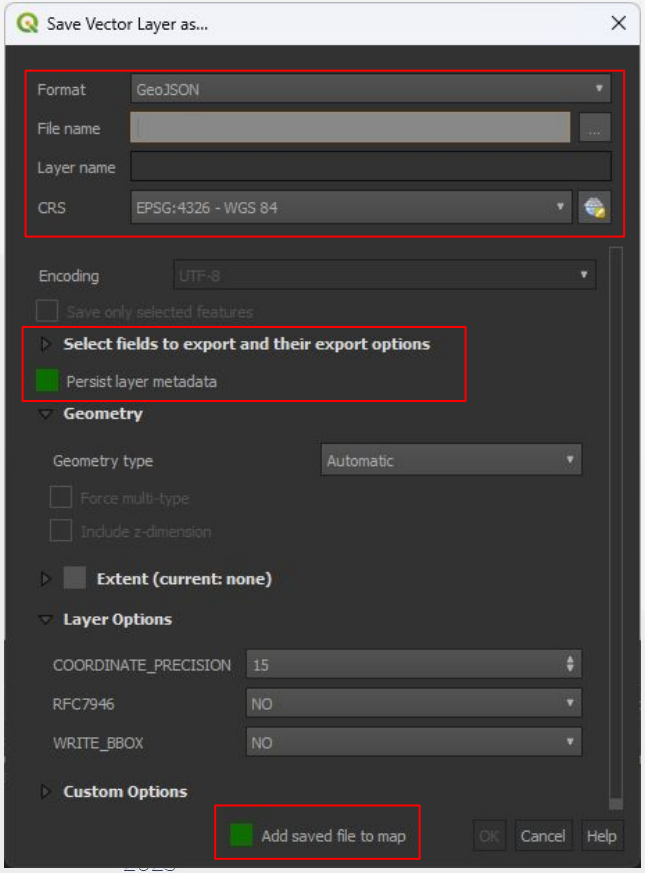






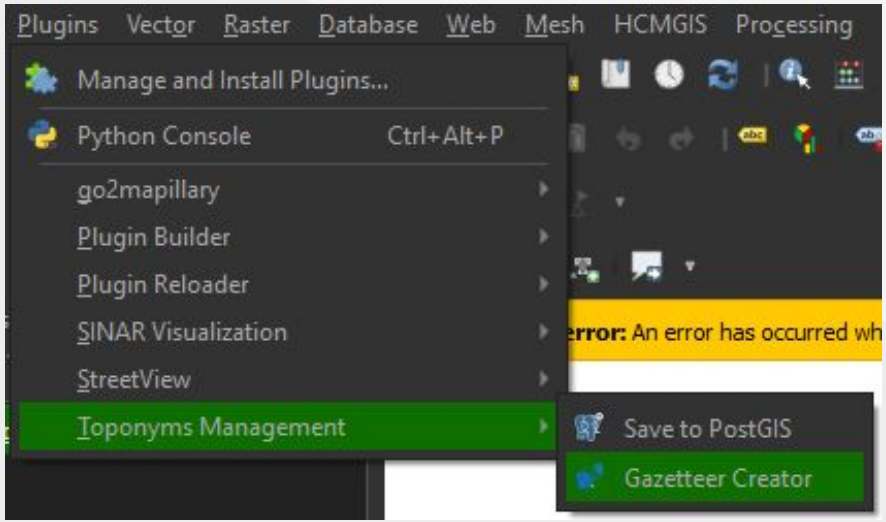
Gazetteer Creation QGIS

2. Export it locally as vector data to avoid disturbing the data in the database



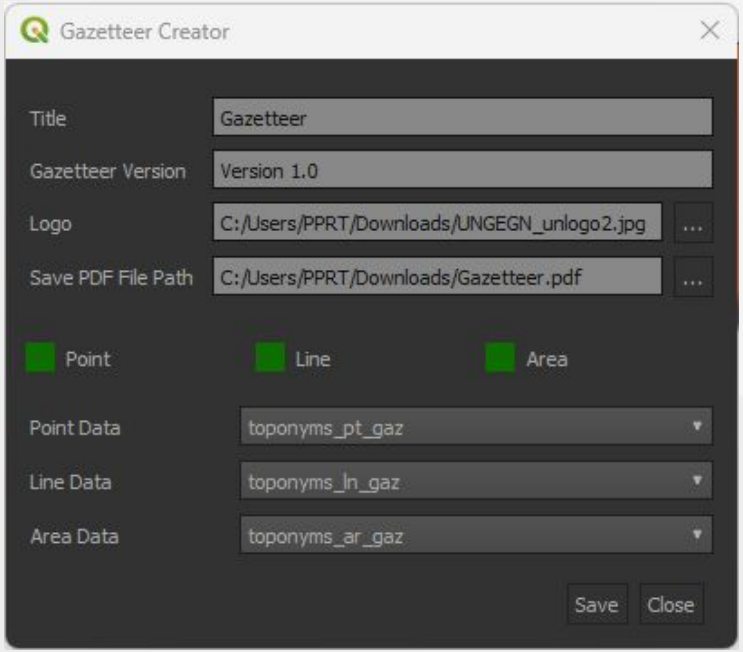
Gazetteer Creation QGIS

3. Open the Gazetteer Creator plugin



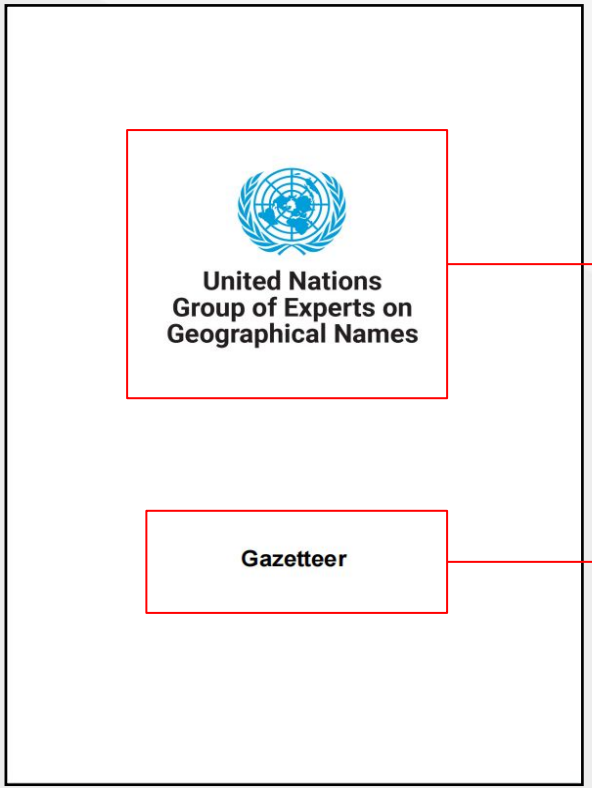
Gazetteer Creation QGIS

4. Fill the form in the Gazetteer Creator plugin dialog



Gazetteer Creation QGIS

Result :



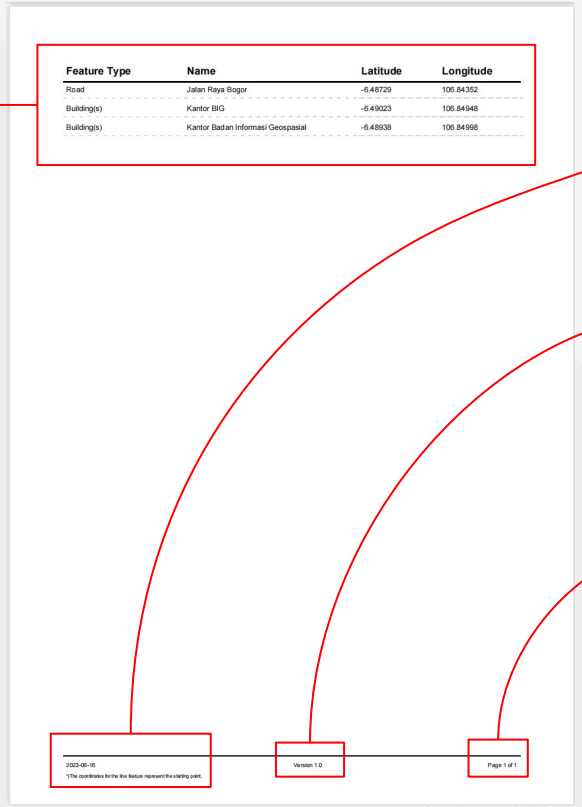
The logo

The title

Gazetteer Creation QGIS

Result :

The content



Feature Type	Name	Latitude	Longitude
Road	Jalan Raya Bogor	-6.48729	106.84352
Building(s)	Kantor BIG	-6.49023	106.84948
Building(s)	Kantor Badan Informasi Geospasial	-6.48938	106.84998

2023-06-16

*)The coordinates for the line feature represent the starting point.

Version 1.0

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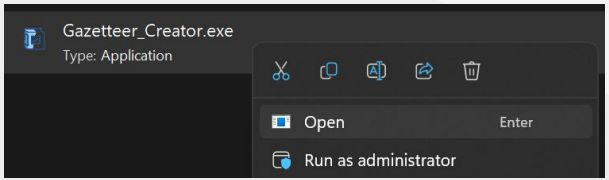
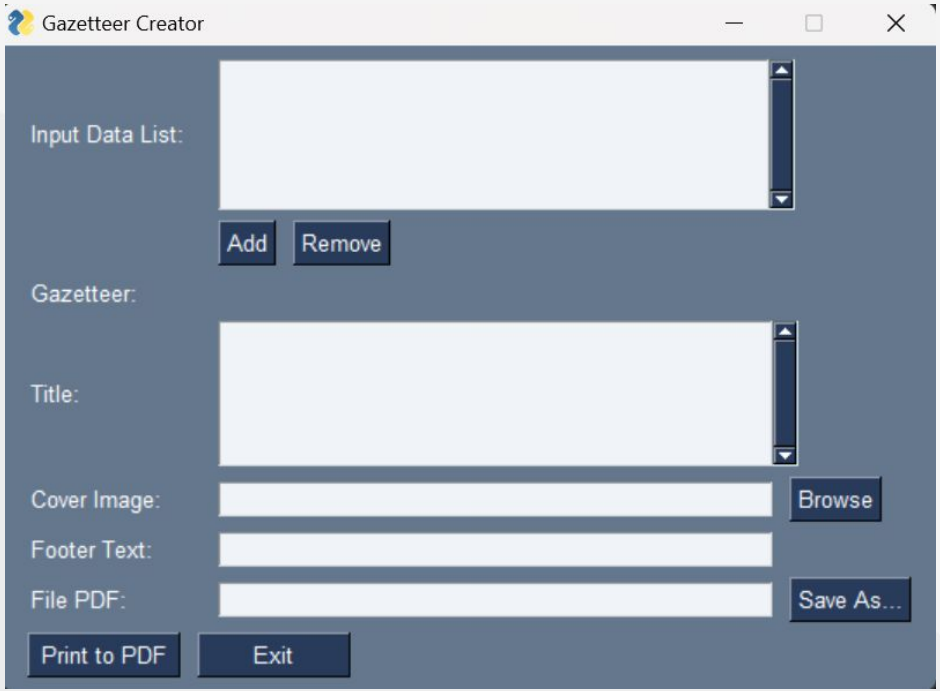
Gazetteer Creation

Gazetteer_Creator.exe

1. Open the program

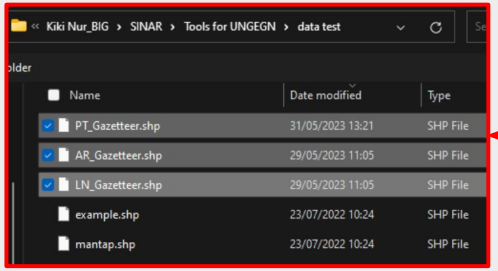


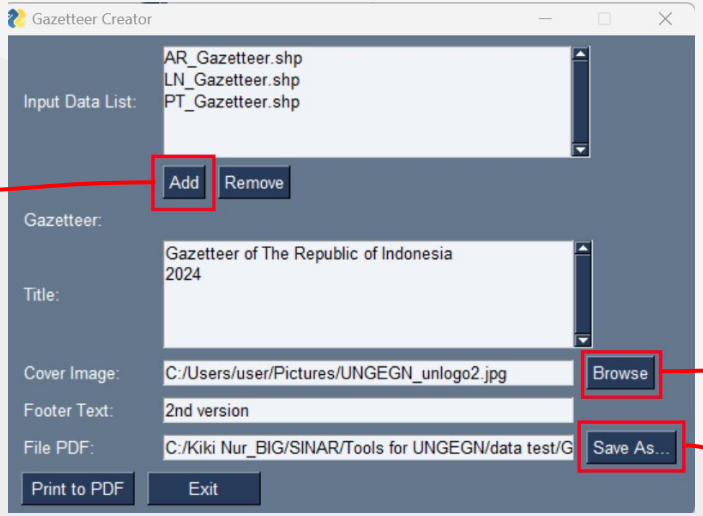


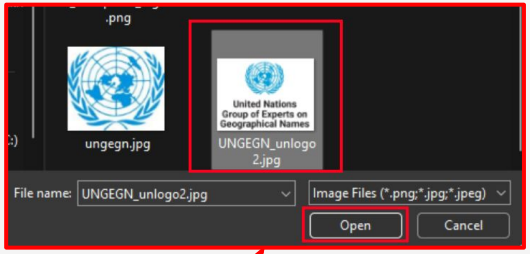
Gazetteer Creation

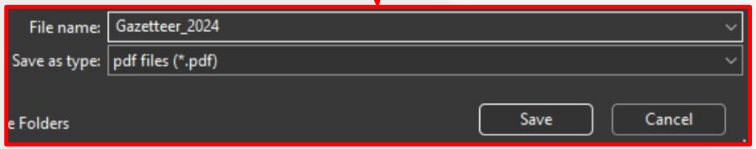
Gazetteer_Creator.exe

2. Fill the form





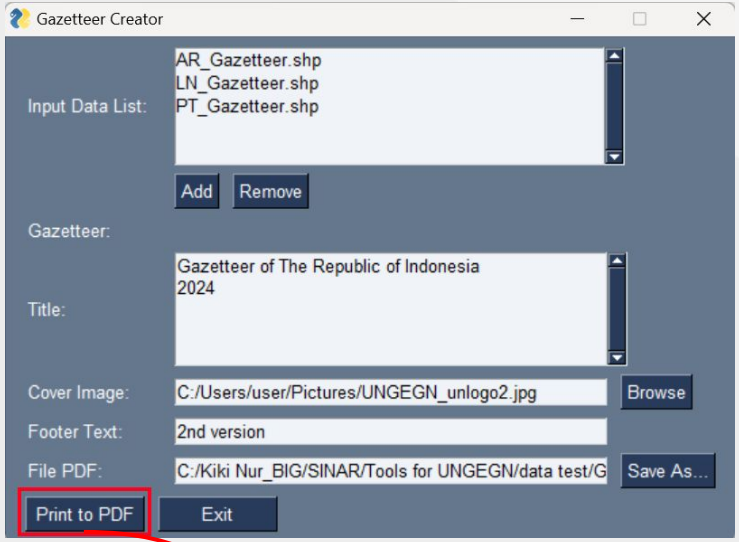


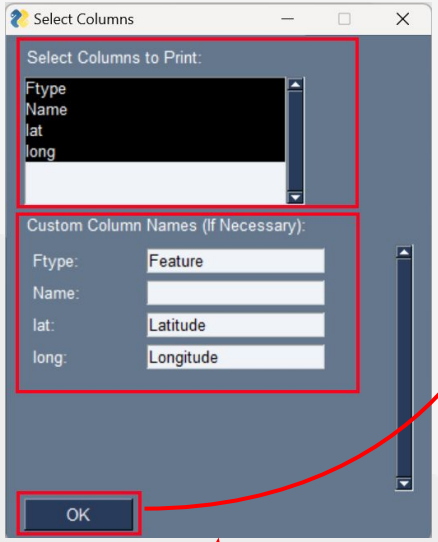


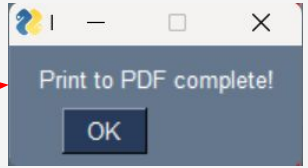
Gazetteer Creation

Gazetteer_Creator.exe

3. Print the Gazetteer







Gazetteer Creation

Gazetteer_Creator.exe

Result :

The logo

The title

Gazetteer Creation

Gazetteer_Creator.exe

Result :

The content

Feature	Name	Latitude	Longitude
Building	Ar-Rahman Mosque	-6.49071	106.84768
Building	Ar-Rahman Mosque	-6.49023	106.84845
Building	Ar-Rahman Mosque	-6.48966	106.84719
Building	Ar-Rahman Mosque	-6.49036	106.84839
Building	Ar-Rahman Mosque	-6.48919	106.84819
Building	Ar-Rahman Mosque	-6.48953	106.84787
Building	Ar-Rahman Mosque	-6.49084	106.84833
Building	Ar-Rahman Mosque	-6.49039	106.84707
Building	Ar-Rahman Mosque	-6.49071	106.84905
Building	Ar-Rahman Mosque	-6.48966	106.84781
Building	Ar-Rahman Mosque	-6.48969	106.84995
Building	Ar-Rahman Mosque	-6.48956	106.85002
Building	Ar-Rahman Mosque	-6.49071	106.84839
Building	Ar-Rahman Mosque	-6.48975	106.84713
Building	Ar-Rahman Mosque	-6.49007	106.84772
Building	Ar-Rahman Mosque	-6.49026	106.84713
Building	Ar-Rahman Mosque	-6.49019	106.84766
Building	Ar-Rahman Mosque	-6.48932	106.84813
Building	Ar-Rahman Mosque	-6.48946	106.84923
Building	Ar-Rahman Mosque	-6.49037	106.84963
Building	Ar-Rahman Mosque	-6.49058	106.84775
Building	Ar-Rahman Mosque	-6.49058	106.84912
Building	Ar-Rahman Mosque	-6.4905	106.84957
Building	Ar-Rahman Mosque	-6.48933	106.84929
Building	Cibinong Village Office	-6.49086	106.84932
Building	Cibinong Village Office	-6.49097	106.84879
Building	Cibinong Village Office	-6.48947	106.84839
Building	Cibinong Village Office	-6.49099	106.84859
Building	Cibinong Village Office	-6.49084	106.84815
Building	Cibinong Village Office	-6.49032	106.84813
Building	Cibinong Village Office	-6.49035	106.84792
Building	Cibinong Village Office	-6.49065	106.84983
Building	Cibinong Village Office	-6.49063	106.85003
Building	Cibinong Village Office	-6.48994	106.84739
Building	Cibinong Village Office	-6.49084	106.84952

2023-06-12
*)the coordinates for the Line feature are the starting point

2nd version

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2023-06-15

*)the coordinates for the Line feature are the starting point

2nd version

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The Differences

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Input data from QGIS layer (shapefile, geojson)	Input only from shapefile
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Fixed columns setting	Customizable columns setting
Personally: it's harder to develop	Personally: it's easier to develop

Tips & Tricks !

1. Column names in spatial data (input) have been adjusted to what you want in the gazetteer.
2. Column for coordinates (lat, long) automatically calculated.
3. For the ".exe" version, select just 4 to 5 columns, because of limitation of paper width.

What's Next?

We can develop the program to be more complex and better, for example:

1. Page setup (paper size, orientation, margins)
2. Width setting for each column
3. Table style improvements


terima kasih
njengkepi parikan
tarima kase
terime kaseh
teghemo kasih
nerima nihan
kurre sumanga'
saohagölö
rutam nuwus
kasuwun
lias ate
tarimo kasih
teghima kasih
ngatur nuhun
sukur dofu
dangke
surak sabeu
ta' kabessa nyo'on
suwun
tarima kasi
makase
teurimong geunaseh
tiba teing
epang gawang
keso'on
sura'
sabah
makaseh
makapulu sama'
mokaseh
e saparauni
tumpu lalo
matur nuwun
tampi asih
bujur
sukur moanto
matur suksma
obrigado
diate tupa
berijin
brejen
odu'olo terima kaseh
kurru sumange
mauliate
waniyam
walidi'a
tumpuno laloku
sinmung
hatur nuhun
tampeasu
minta rela
kasumasa
tinatauan
mator sekelangkong
masurak bagat