

Installation Guide for Toolbox App on the Local PC (Laptop/Desktop)

(Linux & Windows only)

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This installation document was created by Erdal Ayan, Software Developer for the Toolbox development in scope of the DFG project [GND for Cultural Data – GND4C](#) in Germany. The GND4C-Toolbox allows to query for person and building objects from GLAM metadata in the GND and score the response for likeliness of a match. In this document the reader will find the installation process of the FastAPI/Streamlit-based Toolbox app in a local machine (only with the Linux or Windows OS) step by step.

Please strictly follow the described steps without skipping any step and in case of error registration please contact to me via my email (erdal_ayan@yahoo.com)

Linux Installation Guide: (If you are a Windows user, please scroll down.)

Step 1: Install PostgreSQL:

Start your Terminal.

Update package list and install PostgreSQL via following commands:

```
sudo apt update  
sudo apt install postgresql postgresql-contrib
```

PostgreSQL should start automatically. If not, start it via following command:

```
sudo service postgresql start
```

Step 2: Install PGAdmin:

Download the latest version of PGAdmin from the official website:

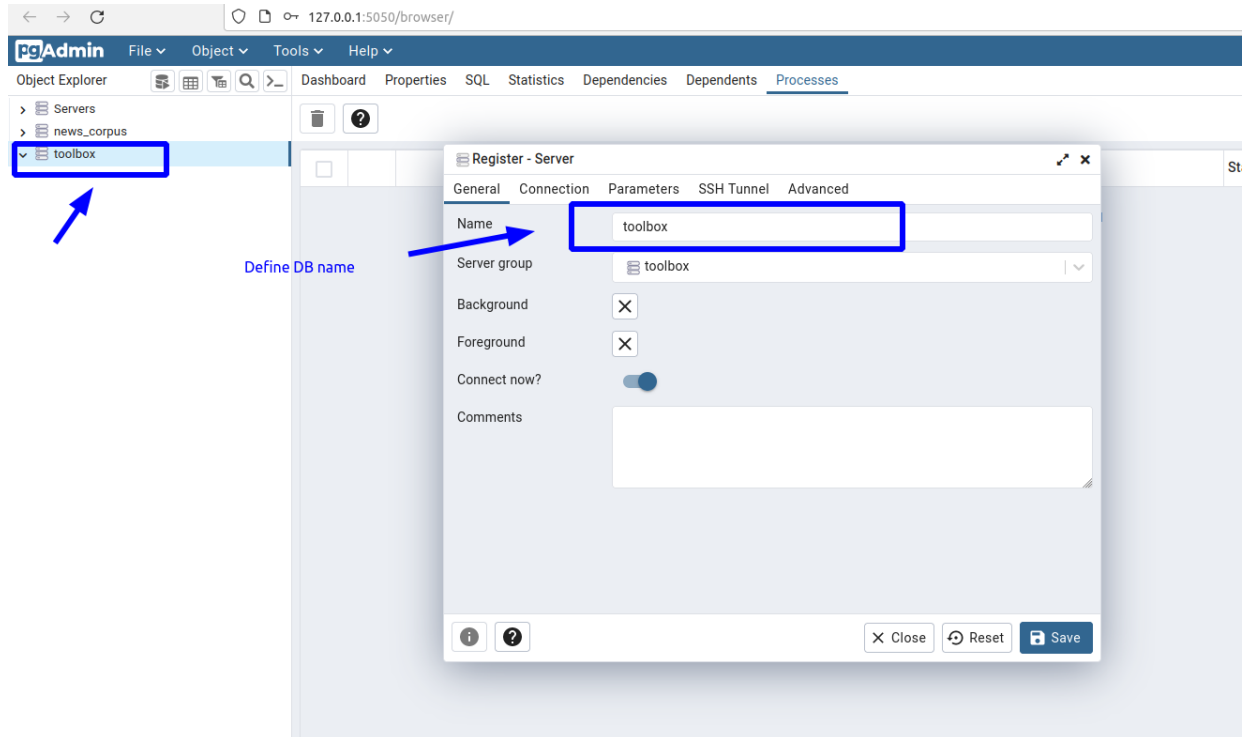
<https://www.pgadmin.org/download/>

Follow the installation instructions here: https://computingforgeeks.com/how-to-install-pgadmin-4-on-ubuntu/?expand_article=1.

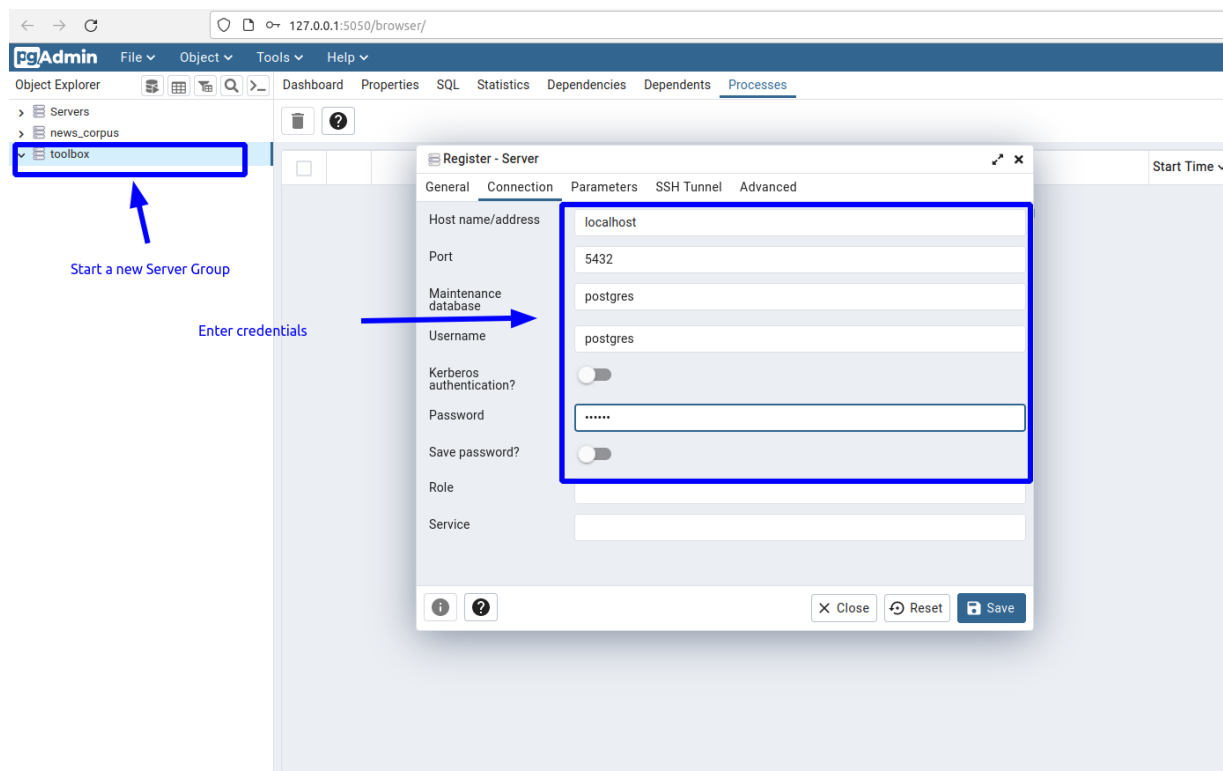
Step 3: Create a PostgreSQL database and user:

Launch your PGAdmin and log in using the PostgreSQL superuser credentials.

Create a new server group (toolbox), user (postgres), password (postgres) and a new database (postgres) using PGAdmin. After this configuration, the settings should look like the screenshots below.



Screenshot 1



Screenshot 2

Step 4: Install Conda:

Download the Conda installer for Linux from the official website:

<https://docs.conda.io/projects/conda/en/latest/user-guide/install/linux.html>

Follow the installation instructions.

Step 5: Install VSCode:

Download the VSCode installer for Linux from the official website:

<https://code.visualstudio.com/docs/setup/linux>

Follow the installation instructions.

Step 6: Create a Conda virtual environment for Streamlit:

Open a Terminal Enter the command:

```
conda create --name streamlit python=3.9
```

Activate the environment in your Terminal:

```
conda activate streamlit
```

Step 7: Install Streamlit and psycopg2 within the virtual environment:

Install Streamlit and psycopg2 using pip:

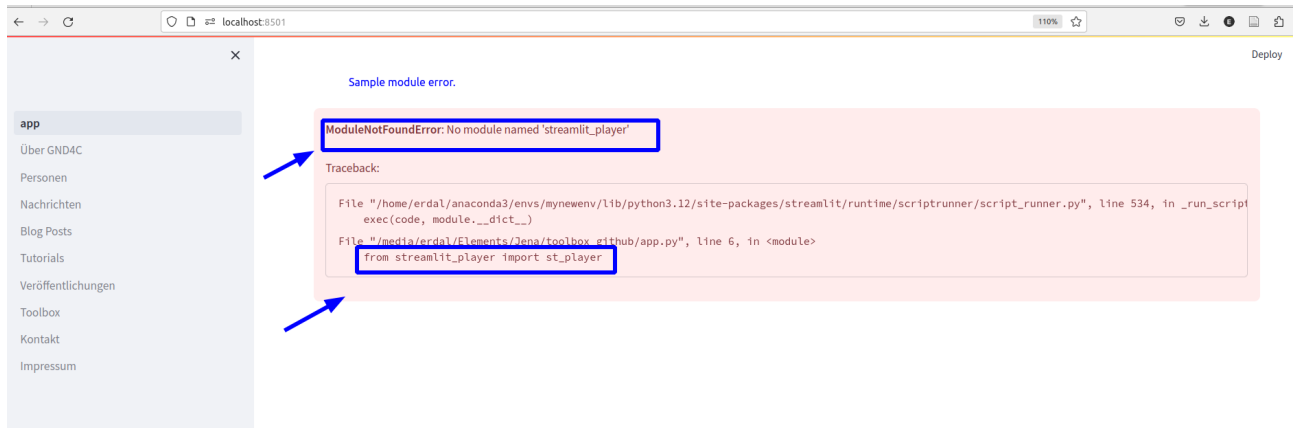
Open a terminal and enter the command:

```
pip install streamlit psycopg2
```

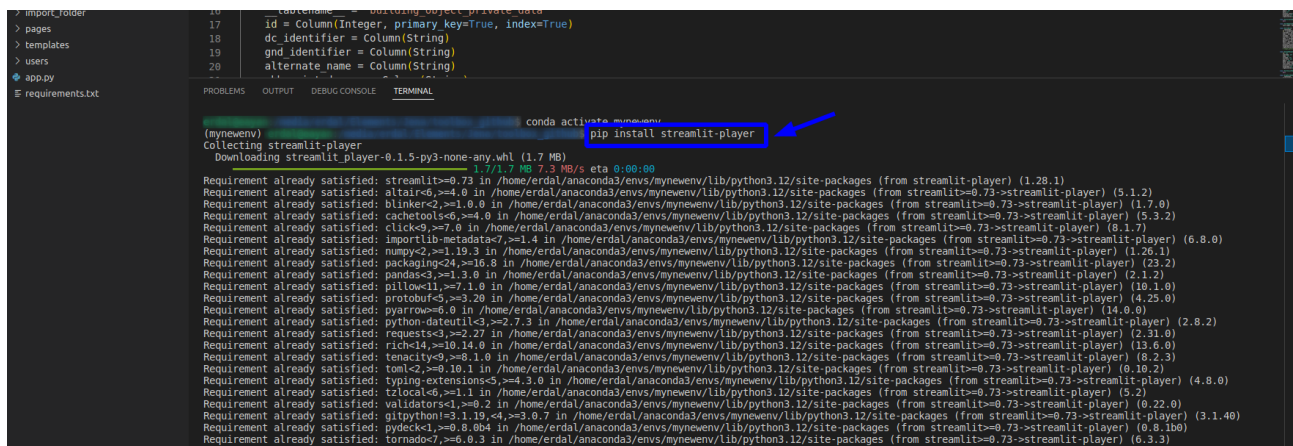
Also install other requirements via the following command:

```
pip install -r requirements.txt
```

In case there are still errors with the uninstalled Python libraries/modules as in Screenshot 3 below, please attempt to install the module manually by following the instructions¹ in screenshot 4.



Screenshot 3: Sample Module Error Registration



Screenshot 4: Sample solution for Module error registration

Step 8: Run FastApi Backend:

If you have not switched off your VSCode you do not have to restart your Terminal, otherwise start your VSCode and open the folder of the app in your VSCode. Start a “New Terminal”. Enter the following commands in your Terminal:

```
conda activate streamlit
```

```
uvicorn main:app --reload
```

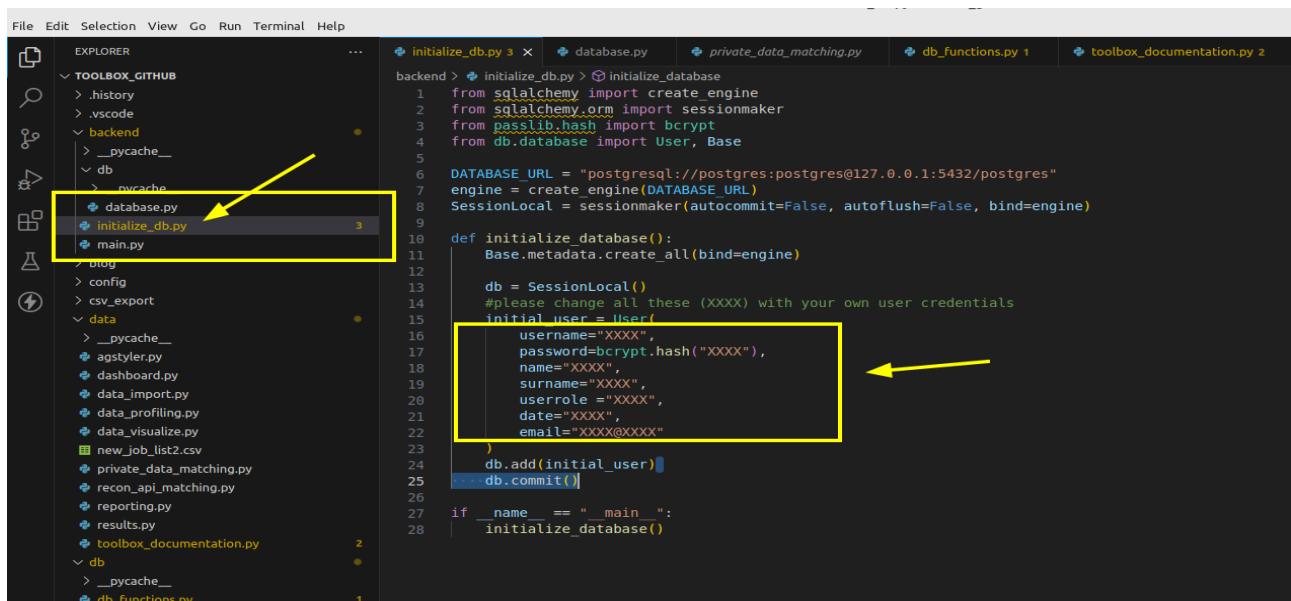
¹ Please pay attention: Each module may require different installation command (pip install [name-of-library]) so please first check the installation command with the PyPi site of the library (look for an example here: <https://pypi.org/project/streamlit-player/>)

Step 9: Create a User in the Database:

Start your VSCode and open the folder of the app in your VSCode. Start a “New Terminal”. Enter the following commands in your Terminal:

```
cd backend
```

#Update the db connection and user credentials in the file “initialize_db.py” and “save” the file as in the screenshot below



Screenshot 5: Updating “initialize_db.py”

#Run the following command in your Terminal

```
python initialize_db.py
```

Step 10: Run Toolbox (Streamlit) app:

Start your VSCode and open the folder of the app in your VSCode. Start a “New Terminal”. Enter the following commands in your Terminal:

```
conda activate streamlit
```

```
streamlit run app.py
```

Step 11: Import Your Dataset:

When you manage to start your app and if everything works fine, you can import your dataset into the Toolbox environment/Postgres database in order to create querying and matching events. Please first use the user-credentials you created above and log into the Toolbox environment and follow the steps defined below.

Attention: If you do not import any valid data set as shown in the instructions, the app will not work properly and give you any results but rather error registrations only.

If you have your dataset as .json, please follow the steps to import .json dataset

app
Über GND4C
Personen
Nachrichten
Blog Posts
Tutorials

Username
eayan
Password
Login
Logout

Features Sub-Menu
☐ Toolbox
☐ Matching
☒ Data Import
☐ Ergebnisse
☐ Reporting
☐ Personal Liste
☐ Data Profiling
☐ Data Visualisierung
☐ Blogpost
☐ Benutzer Verwaltung

Data Import

Private Data Import Csv Data Import

Um die Formatierungsanweisungen zu lesen, besuchen Sie bitte [GitHub](#).

Download Person Data

Download Bauwerke Data

Data Type
☒ Person ☐ Bauwerke

Save as
☒ Private Data ☐ Public Data

Choose a file

Drag and drop file here
Limit 200MB per file

Browse files

This site is under construction

Step 1: Check our standardized .json Format.

Step 2: Download sample .json file

Step 3: Choose the object type

Step 4: Choose if you want to keep your data as private (only you will see the dataset) or public (every user will see your dataset)

Step 5: Choose your .json file to upload

app

Über GND4C

Personen

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Features Sub-Menu

☐ Toolbox

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☒ Data Import

☐ Ergebnisse

☐ Reporting

☐ Personal Liste

☐ Data Profiling

☐ Data Visualisierung

☐ Blogpost

☐ Benutzer Verwaltung

Eingeführt von: eayan

Erstellt am: 19/12/2023 15:55:43

Default Title: 19/12/2023 15:55:43

Geben Sie ein alternative Titel ein *

test_dataset_ea

Geben Sie hier Ihre Kommentar ein

| | index | dc_id | forename | surname | personal_name | name_addition | prefix | counting | gender | birth_date | death_date | dc_identifier | non_preferred_name |
|--|-------|-------|----------|----------------------------------|------------------------|---------------|--------|----------|--------|------------|------------|---------------|--------------------|
| | 0 | 0 | Q100 | Franz von Paula Edler von | Berger auf Siebenbrunn | None | None | None | None | 1752-01-01 | 1799-01-01 | Q100 | None None |
| | 1 | 1 | Q1001 | Johann Nepomuk Christian von | Schaden | None | None | None | None | 1757-01-01 | None | Q1001 | None None |
| | 2 | 2 | Q1004 | Joseph Leonhard | Schaffner | None | None | None | None | 1756-01-01 | None | Q1004 | None None |
| | 3 | 3 | Q1006 | Clemens August d J Freiherr | Schall zu Bell | None | None | None | None | 1758-01-01 | 1814-01-01 | Q1006 | None None |
| | 4 | 4 | Q101 | Friedrich Heinrich Christoph | Bergmann | None | None | None | None | 1755-04-05 | 1825-02-05 | Q101 | None None |
| | 5 | 5 | Q1013 | Georg Friedrich | Schellhas | None | None | None | None | 1734-01-01 | 1805-01-01 | Q1013 | None None |
| | 6 | 6 | Q1014 | NN | Schelling | None | None | None | None | None | None | Q1014 | None None |
| | 7 | 7 | Q1016 | Christoph Friedrich Chrysostomus | Schenk | None | None | None | None | 1753-01-01 | 1816-01-01 | Q1016 | None None |
| | 8 | 8 | Q1018 | Philipp Ernst | Scheppler | None | None | None | None | 1757-01-01 | 1805-01-01 | Q1018 | None None |
| | 9 | 9 | Q1020 | Jacob von | Scheurle | None | None | None | None | None | None | Q1020 | None None |

Zum Herunterladen drücken

Save Database

Step 6: Give a title to your dataset

Step 7: Check your dataset

Step 8: Save your dataset in the database

If you have your dataset as .csv, please follow the steps to import .csv dataset

The screenshot shows a web application interface for data import. On the left is a sidebar menu with options like 'app', 'Über GND4C', 'Personen', 'Nachrichten', 'Blog Posts', 'Tutorials', 'Username' (eayan), 'Password' (masked), 'Login', 'Logout', and a 'Features Sub-Menu' with radio buttons for 'Toolbox', 'Matching', 'Data Import' (selected), 'Ergebnisse', 'Reporting', 'Personal Liste', 'Data Profiling', 'Data Visualisierung', 'Blogpost', and 'Benutzer Verwaltung'. The main content area is titled 'Data Import' and has two tabs: 'Private Data Import' and 'Csv Data Import' (active). Below the tabs, there are three instructional boxes with blue arrows pointing to specific form elements:

- Step 1: Download the sample .csvs file and check colum labels.** Points to 'Download Person Data' and 'Download Bauwerke Data' buttons.
- Step 2: Choose the object type** Points to the 'Data Type' section with radio buttons for 'Person' (selected) and 'Bauwerke'.
- Step 3: Choose if you want to keep your data private (only you will see your own dataset) or public (every user will see your dataset).** Points to the 'Save as' section with radio buttons for 'Private Data' (selected) and 'Public Data'.

Below these steps, there is a text input field labeled 'Import your .csv file here.' and a 'Choose a file' section with a 'Drag and drop file here' instruction and a 'Limit 200MB per file' note. A blue arrow points from the text 'Step 4: Choose your .csv file to upload' to a 'Browse files' button. At the bottom, a yellow banner states 'This site is under construction'.

app
Über GND4C
Personen
Nachrichten
Blog Posts
Tutorials
Veröffentlichungen

Toolbox

Username
eayan

Password

Login

Logout

Features Sub-Menu

- ☐ Toolbox
- ☐ Matching
- ☒ Data Import
- ☐ Ergebnisse
- ☐ Reporting
- ☐ Personal Liste
- ☐ Data Profiling
- ☐ Data Visualisierung
- ☐ Blogpost
- ☐ Benutzer Verwaltung

Dataset definieren

Eingeführt von: eayan

Erstellt am: 19/12/2023 16:01:58

Default Title: 19/12/2023 16:01:58

Geben Sie ein alternative Titel ein *

sample_dataset_ea

Enter your comment here

Step 5: Give a title to your dataset

Step 6: Check your dataset

| | dc_id | forename | surname | personal_name | name_addition | prefix | counting | gender | birth_date | death_date | non_preferred_name_surname | birth_place | death_place | period_of_activity_start | period_of_activity_end | profession |
|---|-------|---------------------------------------|------------|---------------|---------------|--------|----------|--------|------------|------------|----------------------------|---------------------|---------------|--------------------------|------------------------|---------------------------|
| 0 | Q1033 | Augustin Freiherr von und zu Schleuse | Schleuse | None | None | None | None | None | None | None | von der Schleiß | Not Described | Not Described | None | None | Senior des Fürststifts Ke |
| 1 | Q105 | Gottfried Christoph | Bernigau | None | None | None | None | None | 1760-01-01 | None | None None | MühlhausenThüringen | Not Described | None | None | None |
| 2 | Q1050 | Friedrich | Schmidt | None | None | None | None | None | 1757-07-12 | 1812-01-01 | None None | Lorch | Not Described | None | None | Amtsschreiber |
| 3 | Q1066 | Carl Adolph von | Schönberg | None | None | None | None | None | 1746-01-01 | None | None None | Bautzen | Not Described | None | None | Domherr, Dompropst |
| 4 | Q1068 | Johann Nepomuk Freiherr von | Schönprunn | None | None | None | None | None | None | None | None None | Not Described | Not Described | None | None | Hauptmann |
| 5 | Q1084 | Johann Friedrich Wilhelm | Schultz | None | None | None | None | None | None | None | None None | Aachen | Not Described | None | None | Hofrat, Statthalter |
| 6 | Q1085 | Johann Heinrich | Schultz | None | None | None | None | None | 1740-12-24 | None | None None | Hamburg | Not Described | None | None | Kaufmann, Tabakfabrik |
| 7 | Q1089 | NN | Schwab | None | None | None | None | None | None | None | None None | Not Described | Not Described | None | None | Advokat, Regierungsreg |
| 8 | Q109 | Franz Ignaz | Beutter | None | None | None | None | None | None | 1798-01-01 | None None | Not Described | Konstanz | None | None | Stadtrat, Student |
| 9 | Q1090 | None | Schwabe | None | None | None | None | None | None | None | None None | Not Described | Not Described | None | None | Oberleutnant |

Save Database

Step 7: Save your dataset in the database

Step 12: Define Your OpenStreet Map URL Credentials:

If you attempt to query for buildings (Bauwerke) data against OpenStreet Map via a service like Geofabrik, you need to enter your URL with your own credentials.

The screenshot shows a web browser at localhost:8501/Toolbox. The left sidebar contains a menu with 'app', 'Über GND4C', 'Personen', 'Nachrichten', 'Blog Posts', a 'Username' field with 'eayan', a 'Password' field with masked characters, 'Login', 'Logout', and a 'Features Sub-Menu' with options: 'Toolbox', 'Matching' (selected), 'Data Import', 'Ergebnisse', and 'Reporting'. The main content area is titled 'Matching' and has two tabs: 'Matching für Personen' and 'Matching für Bauwerke' (active). Below the tabs, there are two sections. The first section, 'Wählen Sie bitte eine Datenquelle', has radio buttons for 'Private Data' (selected) and 'Public Data'. The second section, 'Select your source of data', has radio buttons for 'OSM & Lobid' (selected) and 'Wikidata'. A blue arrow points from the text 'Enter URL here.' to a large text input field labeled 'Please enter URL'.

Windows Installation Guide:

Step 1: Install PostgreSQL:

Download the PostgreSQL installer for Windows from the official website:

<https://www.postgresql.org/download/windows/>

Follow the installation instructions.

Step 2: Install PGAdmin:

Install PGAdmin:

Download the latest version of PGAdmin from the official website:

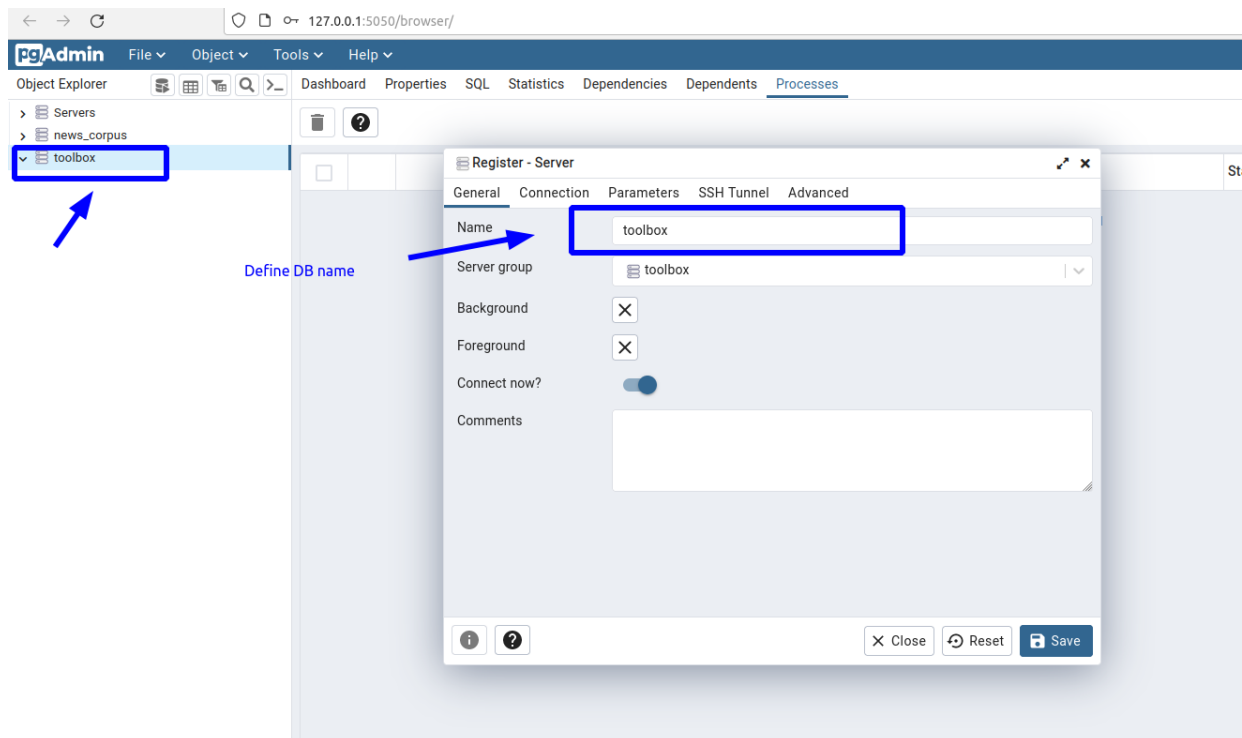
<https://www.pgadmin.org/download/>

Follow the installation instructions.

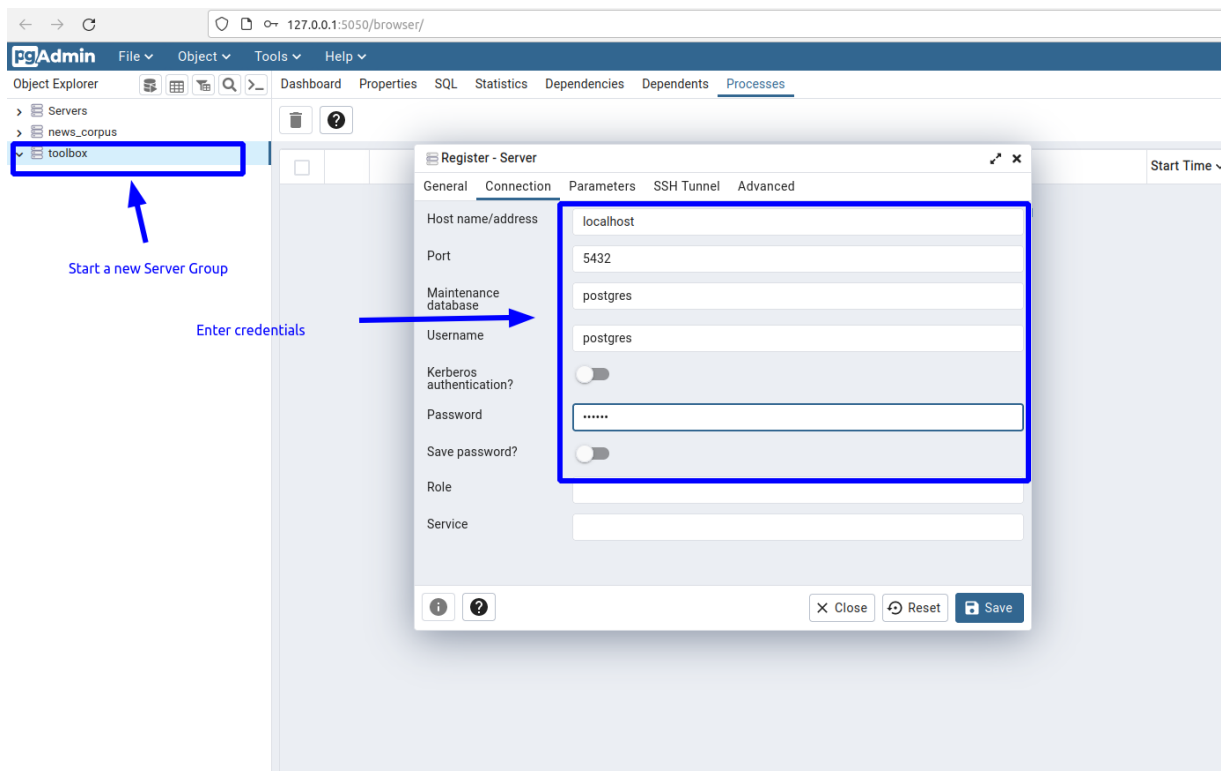
Step 3: Create a PostgreSQL database and user:

Launch your PGAdmin and log in using the PostgreSQL superuser credentials.

Create a new server group (toolbox), user (postgres), password (postgres) and a new database (postgres) using PGAdmin. After this configuration, the settings should look like the following screenshots below.



Screenshot 1



Screenshot 2

Step 4: Install Conda:

Download the Conda installer for Windows from the official website:

<https://docs.conda.io/projects/conda/en/latest/user-guide/install/windows.html>

Follow the installation instructions.

Step 5: Install VSCode:

Download the VSCode installer for Windows from the official website:

<https://code.visualstudio.com/download>

Follow the installation instructions.

Step 6: Create a Conda virtual environment for Streamlit in VSCode:

Start your VSCode.

Open a Terminal and enter the command:

```
conda create --name streamlit python=3.9
```

Activate the environment:

```
conda activate streamlit
```

Step 7: Install Streamlit and psycopg2 within the virtual environment:

Install Streamlit and psycopg2 using pip:

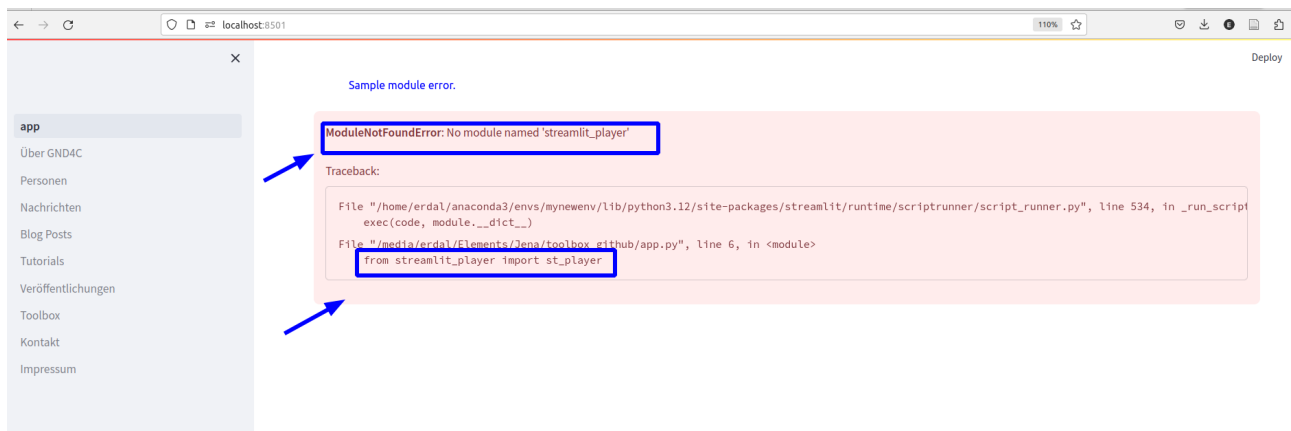
Open a terminal and enter the command:

```
pip install streamlit psycopg2
```

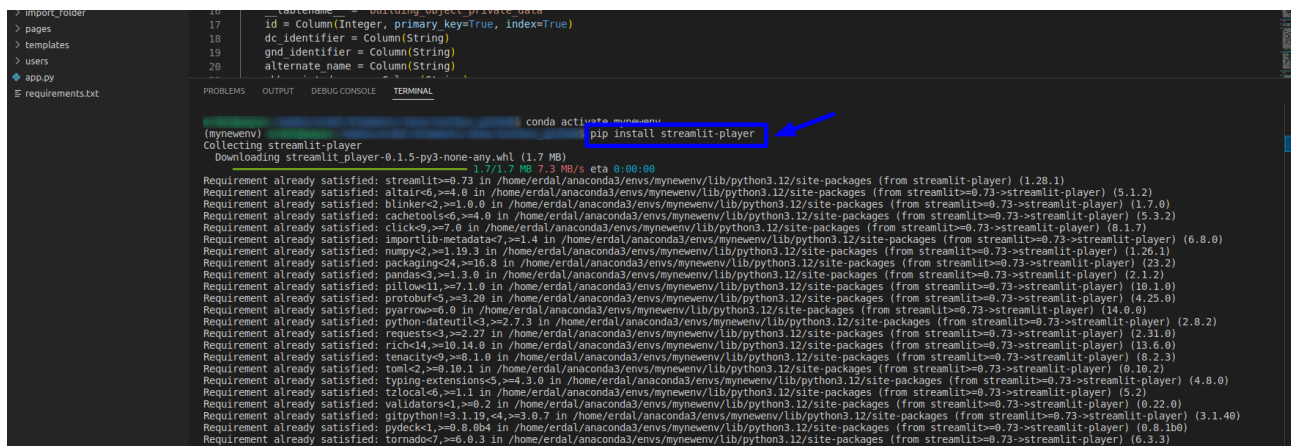
Also install other requirements via the following command:

```
pip install -r requirements.txt
```

In case there are still errors with the uninstalled Python libraries/modules as in screenshot 3 below, please attempt to install the module manually by following the instructions² in screenshot 4 below.



Screenshot 3: Sample Module Error Registration



Screenshot 4: Sample solution for Module error registration

Step 8: Run FastApi Backend:

If you have not switched off your VSCode you do not have to restart your Terminal, otherwise start your VSCode and open the folder of the app in your VSCode. Start a “New Terminal”. Enter the following commands in your terminal:

```
conda activate streamlit
```

```
uvicorn main:app --reload
```

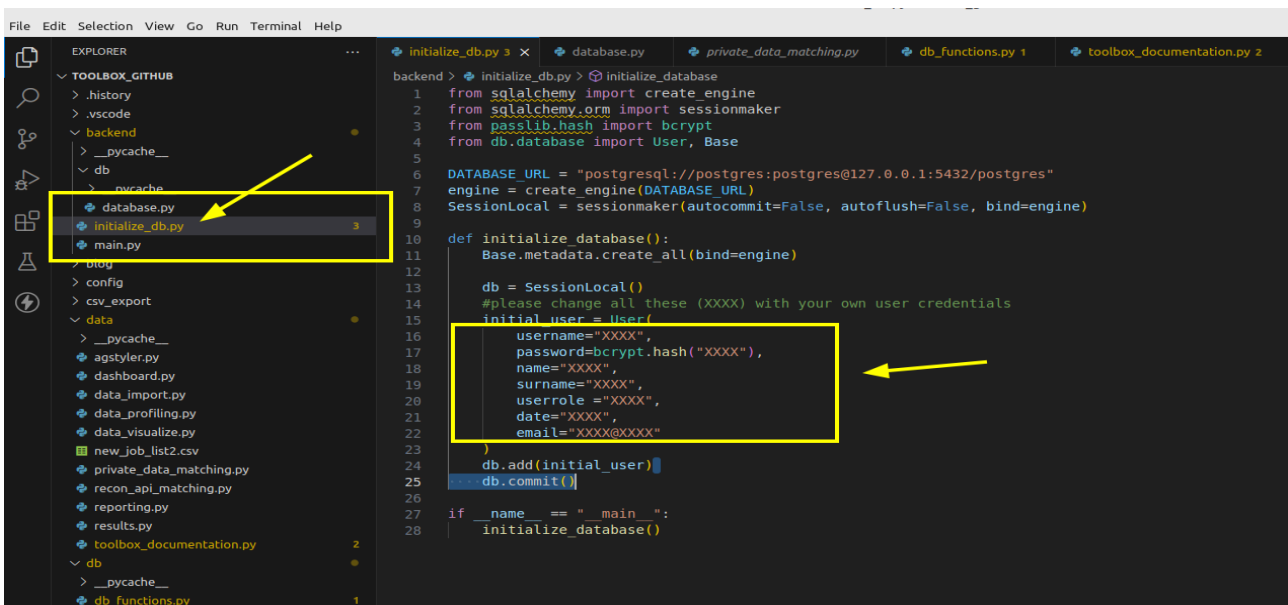
Step 9: Create a User in the Database:

- 2 Please pay attention: Each module may require different installation command (pip install [name-of-library]) so please first check the installation command with the PyPi site of the library (look for an example here: <https://pypi.org/project/streamlit-player/>)

Start your VSCode and open the folder of the app in your VSCode. Start a “New Terminal”. Enter the following commands in your terminal:

```
cd backend
```

#Update the db connection and user credentials in the file “initialize_db.py” and “save” the file as in the screen shot below



Screen shot 5: Updating “initialize_db.py”

#Run the following command in your Terminal

```
python initialize_db.py
```

Step 10: Run Toolbox (Streamlit) app:

Start your VSCode and open the folder of the app in your VSCode. Start a “New Terminal”. Enter the following commands in your terminal:

```
conda activate streamlit
```

```
streamlit run app.py
```

Step 11: Import Your Dataset:

When you manage to start your app and if everything works fine, you can import your dataset into the Toolbox environment/Postgres database in order to create querying and matching events. Please first use the user-credentials you created above and log in to the Toolbox environment and follow the steps defined below.

Attention: If you do not import any valid data set as shown in the instructions, the app will not work properly and give you any results but rather error registrations only.

If you have your dataset as .json, please follow the steps to import .json dataset

The screenshot shows a web browser at <https://gnd4c.thulb.uni-jena.de/Toolbox>. The left sidebar contains a menu with items: app, Über GND4C, Personen, Nachrichten, Blog Posts, Tutorials, Username (eayan), Password (masked), Login, Logout, and a Features Sub-Menu with options: Toolbox, Matching, Data Import (selected), Ergebnisse, Reporting, Personal Liste, Data Profiling, Data Visualisierung, Blogpost, and Benutzer Verwaltung.

The main content area is titled "Data Import" and has two tabs: "Private Data Import" (active) and "Csv Data Import".

Five steps are highlighted with blue arrows and boxes:

- Step 1: Check our standardized .json Format.** Points to a [GitHub](#) link.
- Step 2: Download sample .json file** Points to the "Download Person Data" button.
- Step 3: Choose the object type** Points to the "Data Type" section with radio buttons for "Person" (selected) and "Bauwerke".
- Step 4: Choose if you want to keep your data as private (only you will see the dataset) or public (every user will see your dataset)** Points to the "Save as" section with radio buttons for "Private Data" (selected) and "Public Data".
- Step 5: Choose your .json file to upload** Points to the "Browse files" button in the "Choose a file" section.

The "Choose a file" section also includes a "Drag and drop file here" area with a "Limit 200MB per file" note. A yellow banner at the bottom states "This site is under construction".

←

→

↺

🔒

https://gnd4c.thulb.uni-jena.de/Toolbox

🔖

☆

📧

📄

📱

📁

🔗

×

app

Über GND4C

Personen

Nachrichten

Blog Posts

Tutorials

Username

eayan

Password

👁

Login

Logout

Features Sub-Menu

☐ Toolbox

☐ Matching

☒ Data Import

☐ Ergebnisse

☐ Reporting

☐ Personal Liste

☐ Data Profiling

☐ Data Visualisierung

☐ Blogpost

☐ Benutzer Verwaltung

Eingeführt von: eayan

Erstellt am: 19/12/2023 15:55:43

Default Title: 19/12/2023 15:55:43

Geben Sie ein alternative Titel ein *

test_dataset_ea

Geben Sie hier Ihre Kommentar ein

Step 6: Give a title to your dataset

Step 7: Check your dataset

| | index | dc_id | forename | surname | personal_name | name_addition | prefix | counting | gender | birth_date | death_date | dc_identifier | non_preferred_name |
|---|-------|-------|----------------------------------|------------------------|---------------|---------------|--------|----------|--------|------------|------------|---------------|--------------------|
| 0 | 0 | Q100 | Franz von Paula Edler von | Berger auf Siebenbrunn | None | None | None | None | None | 1752-01-01 | 1799-01-01 | Q100 | None None |
| 1 | 1 | Q1001 | Johann Nepomuk Christian von | Schaden | None | None | None | None | None | 1757-01-01 | None | Q1001 | None None |
| 2 | 2 | Q1004 | Joseph Leonhard | Schaffner | None | None | None | None | None | 1756-01-01 | None | Q1004 | None None |
| 3 | 3 | Q1006 | Clemens August d J Freiherr | Schall zu Bell | None | None | None | None | None | 1758-01-01 | 1814-01-01 | Q1006 | None None |
| 4 | 4 | Q101 | Friedrich Heinrich Christoph | Bergmann | None | None | None | None | None | 1755-04-05 | 1825-02-05 | Q101 | None None |
| 5 | 5 | Q1013 | Georg Friedrich | Schellhas | None | None | None | None | None | 1734-01-01 | 1805-01-01 | Q1013 | None None |
| 6 | 6 | Q1014 | NN | Schelling | None | None | None | None | None | None | None | Q1014 | None None |
| 7 | 7 | Q1016 | Christoph Friedrich Chrysostomus | Schenk | None | None | None | None | None | 1753-01-01 | 1816-01-01 | Q1016 | None None |
| 8 | 8 | Q1018 | Philipp Ernst | Scheppler | None | None | None | None | None | 1757-01-01 | 1805-01-01 | Q1018 | None None |
| 9 | 9 | Q1020 | Jacob von | Scheurle | None | None | None | None | None | None | None | Q1020 | None None |

Zum Herunterladen drücken

Save Database

Step 8: Save your dataset in the database

If you have your dataset as .csv, please follow the steps to import .csv dataset

The screenshot shows a web application interface for data import. On the left is a sidebar with navigation links: 'app', 'Über GND4C', 'Personen', 'Nachrichten', 'Blog Posts', 'Tutorials', a 'Username' field with 'eayan', a 'Password' field with masked characters, 'Login', 'Logout', and a 'Features Sub-Menu' with radio buttons for 'Toolbox', 'Matching', 'Data Import' (selected), 'Ergebnisse', 'Reporting', 'Personal Liste', 'Data Profiling', 'Data Visualisierung', 'Blogpost', and 'Benutzer Verwaltung'. The main content area is titled 'Data Import' and has two tabs: 'Private Data Import' and 'Csv Data Import' (active). Below the tabs are two instructional paragraphs in light blue boxes. The first paragraph is followed by a box labeled 'Download Person Data' with an arrow pointing to it from the text 'Step 1: Download the sample .cvs file and check colum labels.' The second paragraph is followed by a box labeled 'Download Bauwerke Data' with an arrow pointing to it from the same step text. Below these is a 'Data Type' section with radio buttons for 'Person' (selected) and 'Bauwerke', with an arrow pointing to it from 'Step 2: Choose the object type'. Below that is a 'Save as' section with radio buttons for 'Private Data' (selected) and 'Public Data', with an arrow pointing to it from 'Step 3: Choose if you want to keep your data private (only you will see your own dataset) or public (every user will see your dataset)'. Below this is a light blue box with the text 'Import your .csv file here.' and a 'Choose a file' section. The 'Choose a file' section has a box with a cloud icon and the text 'Drag and drop file here' and 'Limit 200MB per file'. To the right of this is a box labeled 'Browse files' with an arrow pointing to it from the text 'Step 4: Choose your .csv file to upload'. At the bottom of the main content area is a yellow box with the text 'This site is under construction'.

app
Über GND4C
Personen
Nachrichten
Blog Posts
Tutorials

Username
eayan

Password
.....

Login
Logout

Features Sub-Menu
☐ Toolbox
☐ Matching
☒ Data Import
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☐ Reporting
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Data Import

Private Data Import **Csv Data Import**

Sie können die CSV-Beispieldaten für Person Data herunterladen und Ihre eigenen privaten Daten entsprechend organisieren.

Download Person Data

Step 1: Download the sample .cvs file and check colum labels.

Sie können die CSV-Beispieldaten für Bauwerke Data herunterladen und Ihre eigenen privaten Daten entsprechend organisieren.

Download Bauwerke Data

Data Type
☒ Person ☐ Bauwerke

Step 2: Choose the object type

Save as
☒ Private Data ☐ Public Data

Step 3: Choose if you want to keep your data private (only you will see your own dataset) or public (every user will see your dataset).

Import your .csv file here.

Choose a file

Drag and drop file here
Limit 200MB per file

Step 4: Choose your .csv file to upload

Browse files

This site is under construction

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Dataset definieren
Eingeführt von: eayan
Erstellt am: 19/12/2023 16:01:58
Default Title: 19/12/2023 16:01:58
Geben Sie ein alternative Titel ein *
sample_dataset_ea
Enter your comment here

Step 5: Give a title to your dataset
Step 6: Check your dataset

| | dc_id | forename | surname | personal_name | name_addition | prefix | counting | gender | birth_date | death_date | non_preferred_name_surname | birth_place | death_place | period_of_activity_start | period_of_activity_end | profession |
|---|-------|---------------------------------------|------------|---------------|---------------|--------|----------|--------|------------|------------|----------------------------|---------------------|---------------|--------------------------|------------------------|---------------------------|
| 0 | Q1033 | Augustin Freiherr von und zu Schleuse | Schleuse | None | None | None | None | None | None | None | von der Schleiß | Not Described | Not Described | None | None | Senior des Fürststifts Ke |
| 1 | Q105 | Gottfried Christoph | Bernigau | None | None | None | None | None | 1760-01-01 | None | None None | MühlhausenThüringen | Not Described | None | None | None |
| 2 | Q1050 | Friedrich | Schmidt | None | None | None | None | None | 1757-07-12 | 1812-01-01 | None None | Lorch | Not Described | None | None | Amtsschreiber |
| 3 | Q1066 | Carl Adolph von | Schönberg | None | None | None | None | None | 1746-01-01 | None | None None | Bautzen | Not Described | None | None | Domherr, Dompropst |
| 4 | Q1068 | Johann Nepomuk Freiherr von | Schönprunn | None | None | None | None | None | None | None | None None | Not Described | Not Described | None | None | Hauptmann |
| 5 | Q1084 | Johann Friedrich Wilhelm | Schultz | None | None | None | None | None | None | None | None None | Aachen | Not Described | None | None | Hofrat, Statthalter |
| 6 | Q1085 | Johann Heinrich | Schultz | None | None | None | None | None | 1740-12-24 | None | None None | Hamburg | Not Described | None | None | Kaufmann, Tabakfabrik |
| 7 | Q1089 | NN | Schwab | None | None | None | None | None | None | None | None None | Not Described | Not Described | None | None | Advokat, Regierungsreg |
| 8 | Q109 | Franz Ignaz | Beutter | None | None | None | None | None | None | 1798-01-01 | None None | Not Described | Konstanz | None | None | Stadtrat, Student |
| 9 | Q1090 | None | Schwabe | None | None | None | None | None | None | None | None None | Not Described | Not Described | None | None | Oberleutnant |

Save Database
Step 7: Save your dataset in the database

Step 12: Define Your OpenStreet Map URL Credentials:

If you attempt to query for buildings (Bauwerke) data against OpenStreet Map via a service like Geofabrik you need to enter your URL with your own credentials.

The screenshot shows a web browser window at localhost:8501/Toolbox. The interface is divided into a left sidebar and a main content area. The sidebar contains a menu with options: app, Über GND4C, Personen, Nachrichten, Blog Posts, Username (eayan), Password (masked), Login, Logout, and a Features Sub-Menu with radio buttons for Toolbox, Matching (selected), Data Import, Ergebnisse, and Reporting. The main content area is titled 'Matching' and has two tabs: 'Matching für Personen' and 'Matching für Bauwerke' (selected). Under the 'Matching für Bauwerke' tab, there are two sections. The first section, 'Wählen Sie bitte eine Datenquelle', has radio buttons for 'Private Data' (selected) and 'Public Data'. Below this is the text 'Select your source of data'. The second section, 'Wählen Sie bitte eine Zieldatenquelle', has radio buttons for 'OSM & Lobid' (selected) and 'Wikidata'. A blue arrow points from the text 'Enter URL here.' to a large text input field labeled 'Please enter URL'.