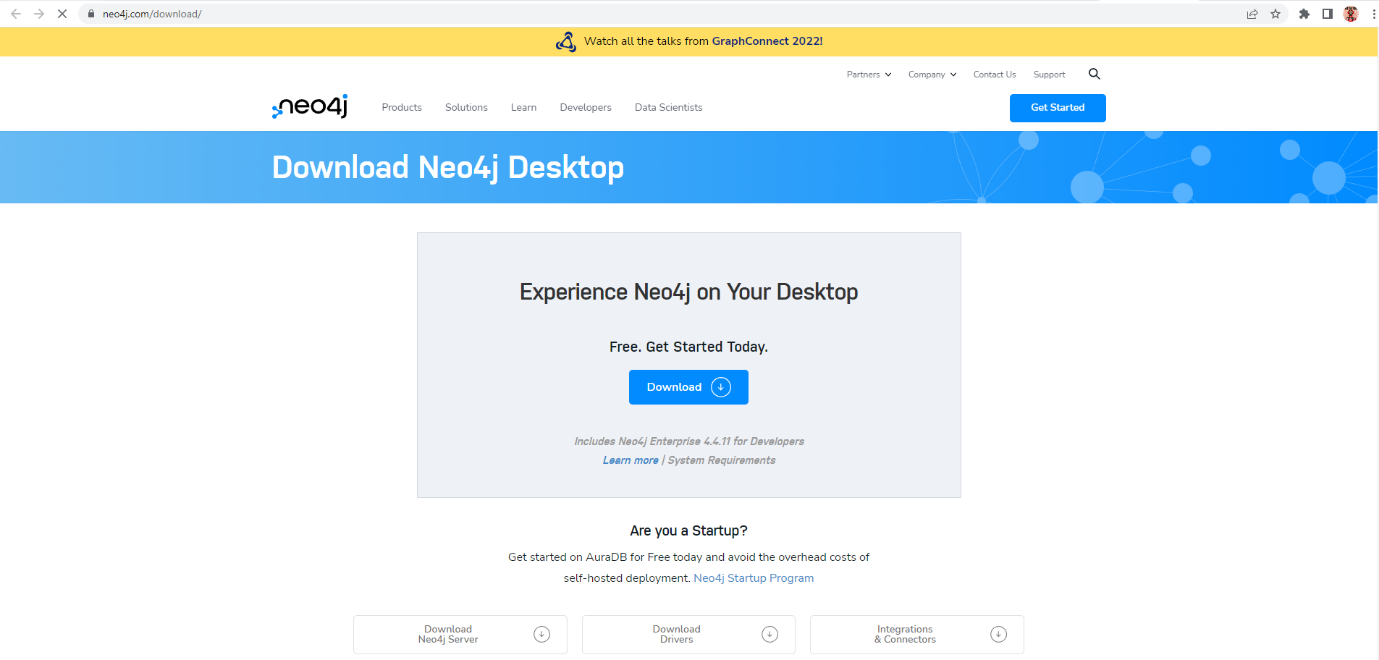
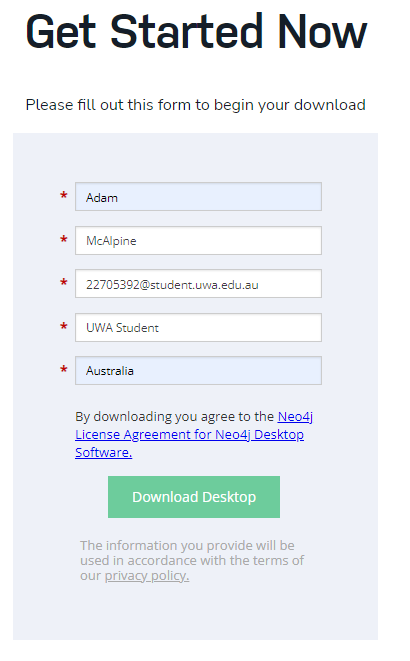
Downloading Neo4j

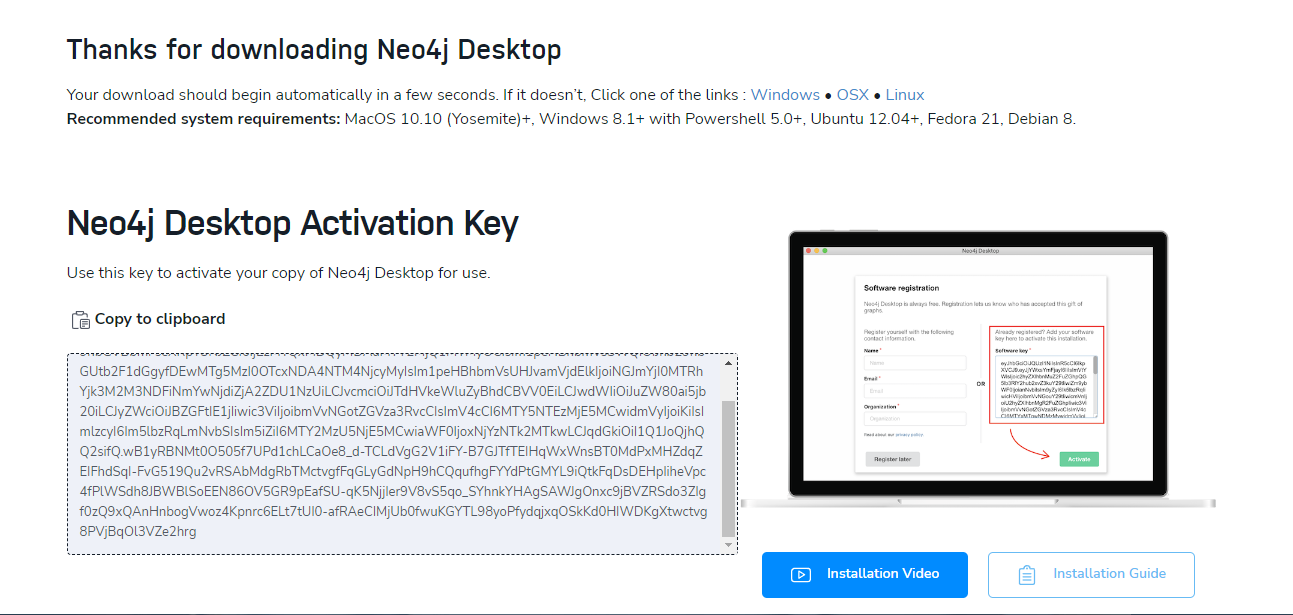
Download neo4j desktop at: <https://neo4j.com/download/> à Press download



Fill in details for license agreement. Then press download



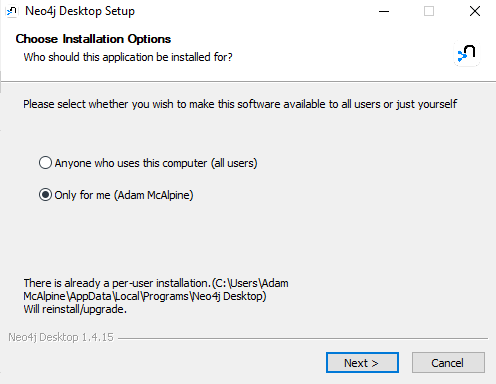
Copy activation key to clipboard, by pressing on this (Note keep this window open in case you end up losing the key somewhere before the next steps):



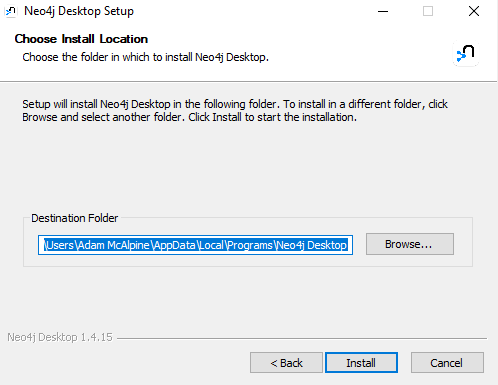
Once it has downloaded open the install program and move to the next page of this guide.

Setting up Neo4j Background

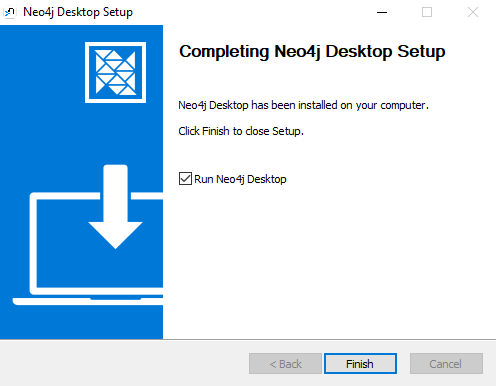
Press Next.



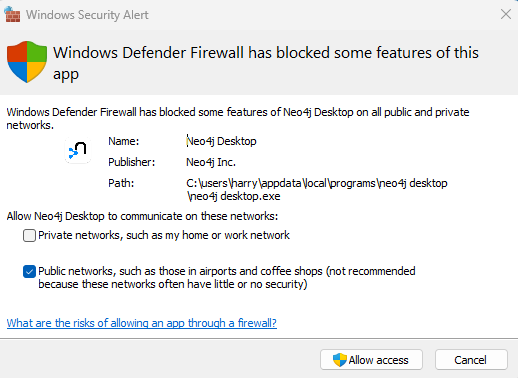
Then Press Install.



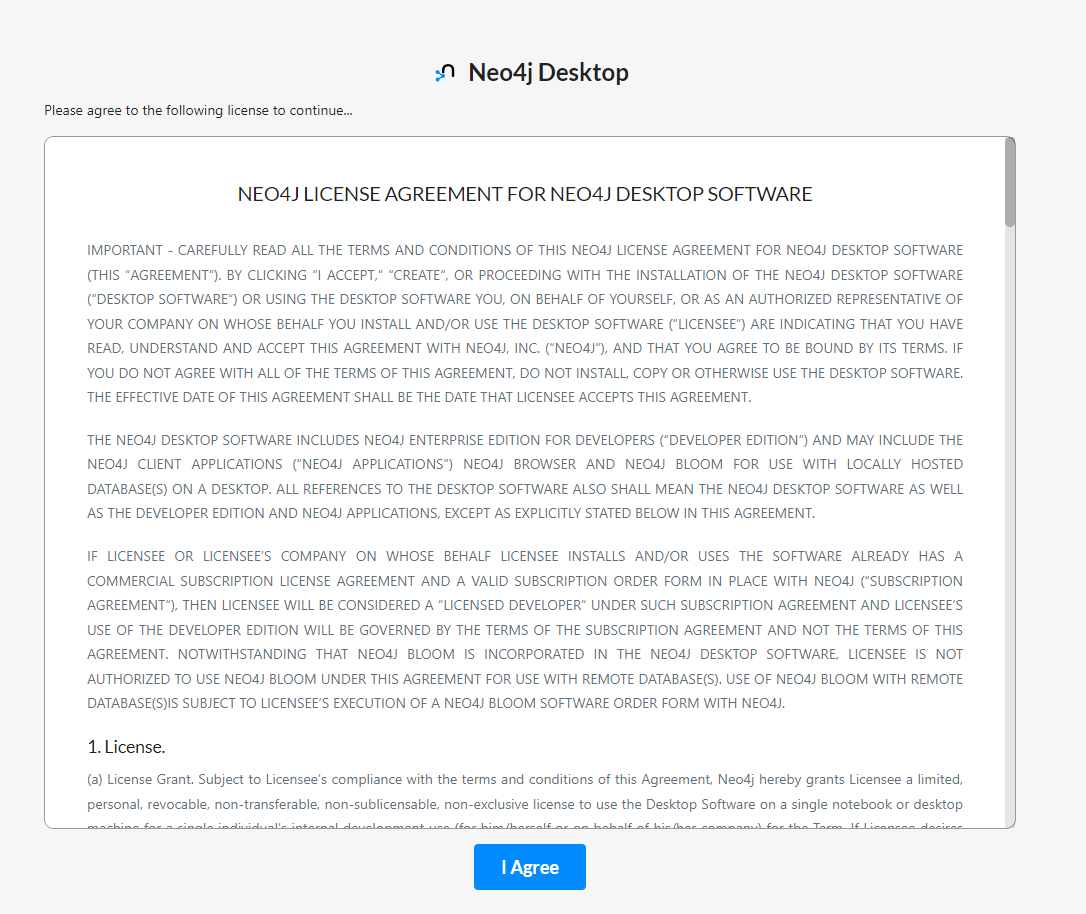
Make sure ‘Run Neo4j Desktop’ is checked, then press Finish



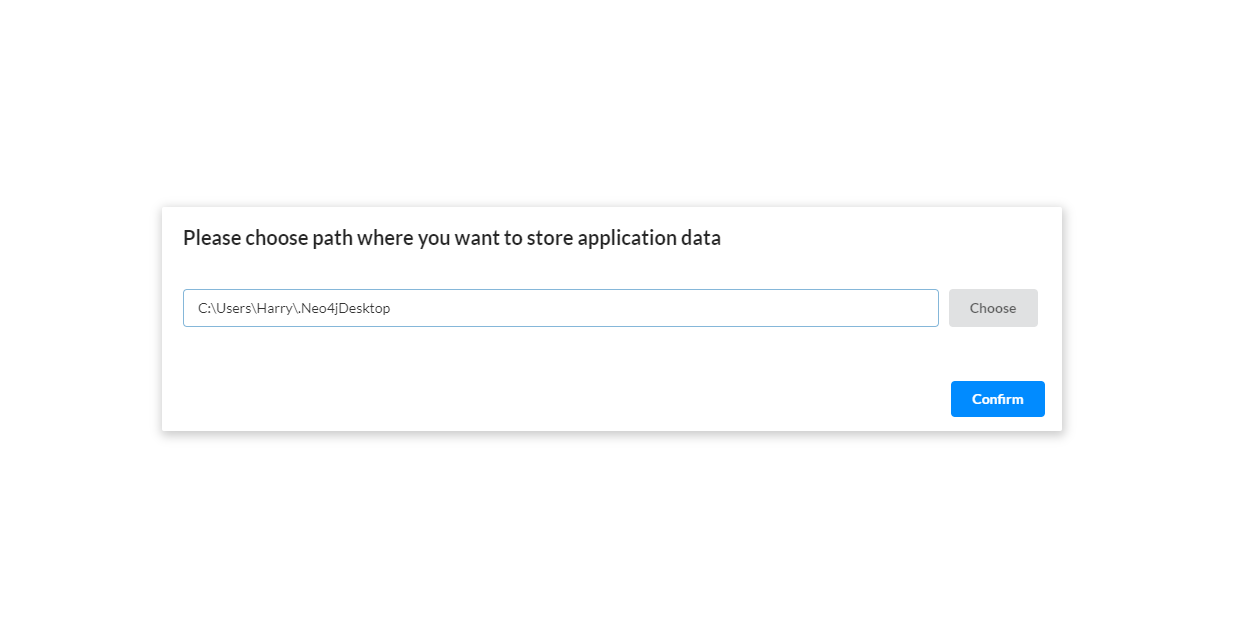
Upon launch you may be greeted with a firewall message clicking allow access will ensure the program runs properly.



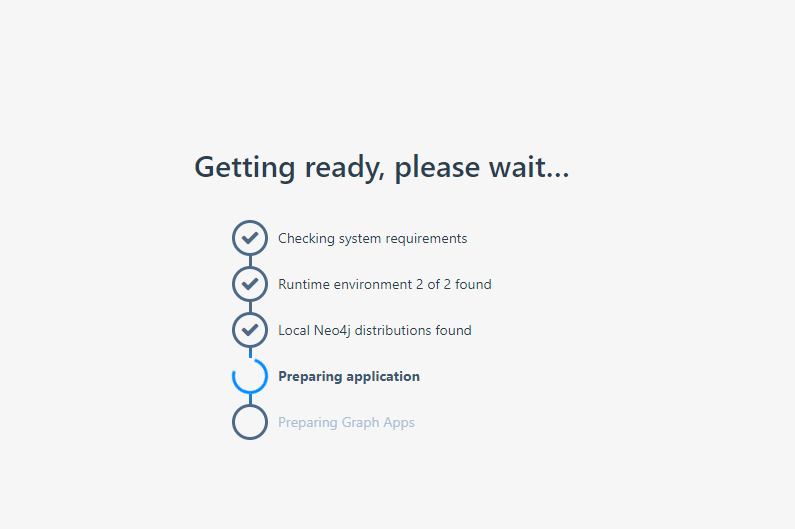
Neo4J will then prompt you to accept its terms and conditions.



This should then prompt you for a path to install the program, the default path should be fine.

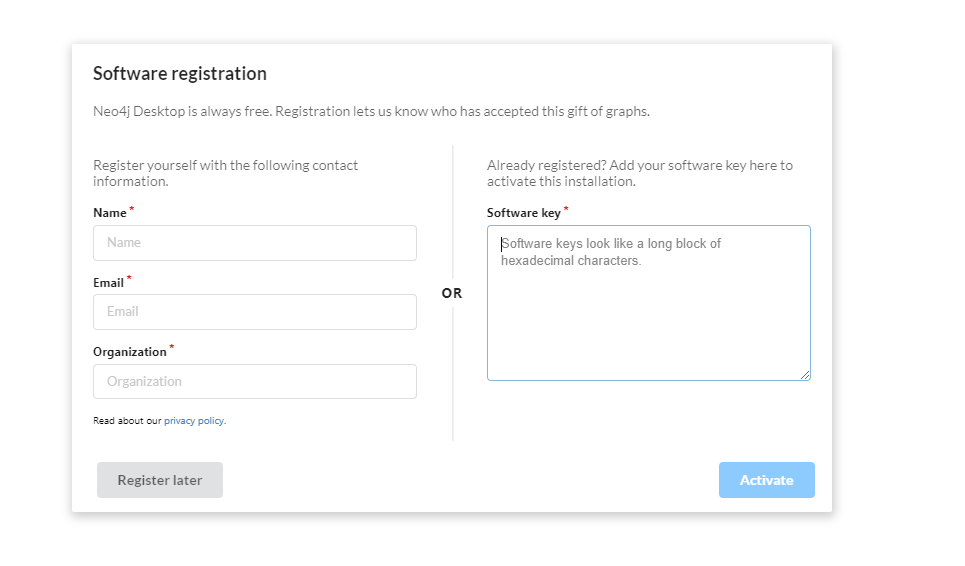


It should then load the application with this screen

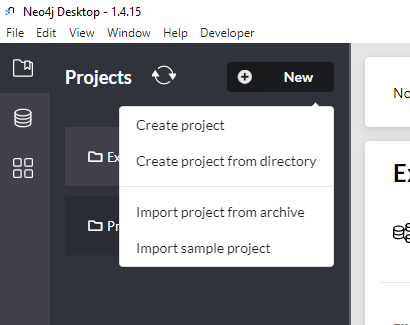
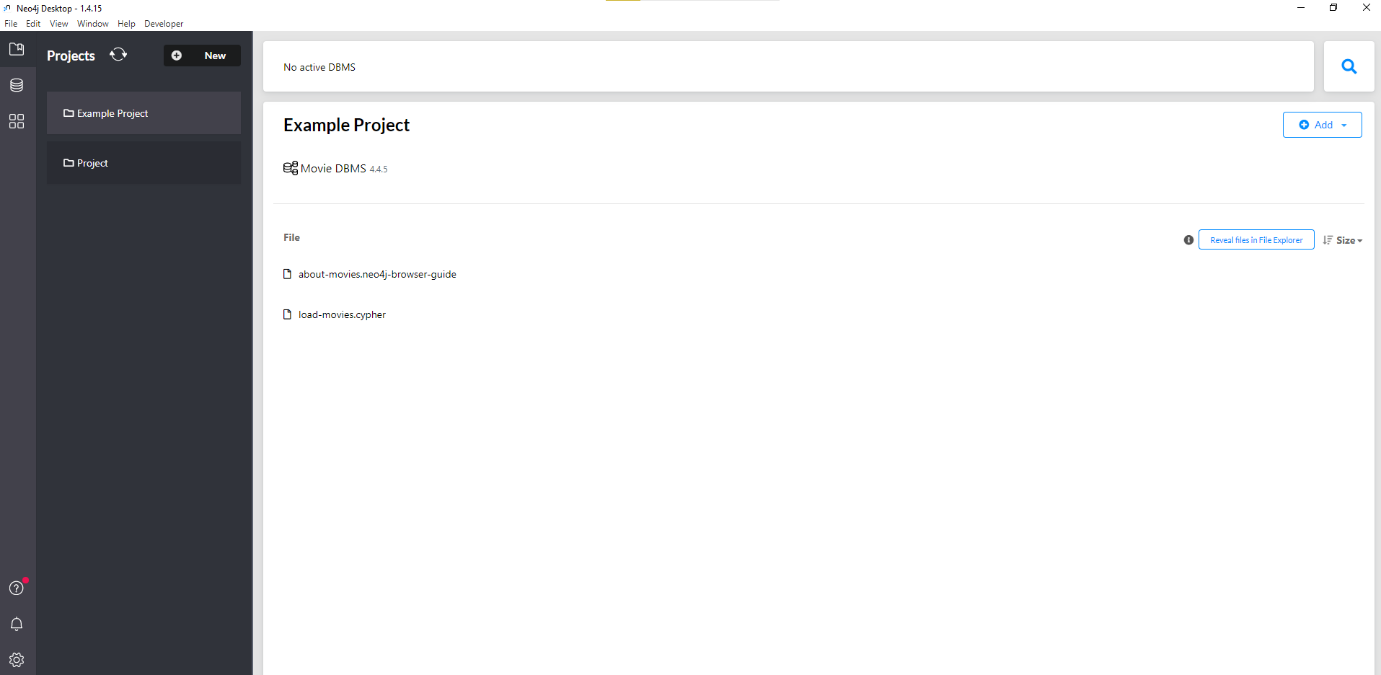


You will then come to a registration stage where we will use the key we copied to the clipboard from the previous step into this box and click activate (Note if pasting the key doesn’t work for some

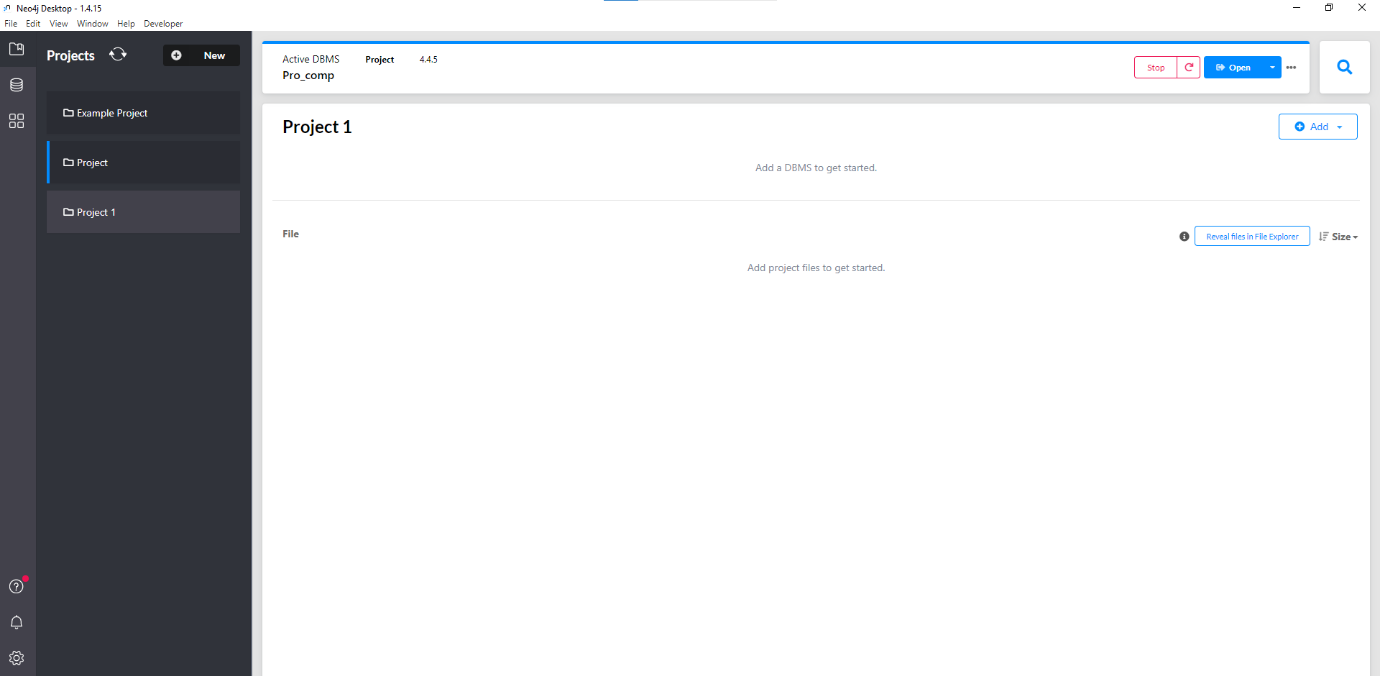
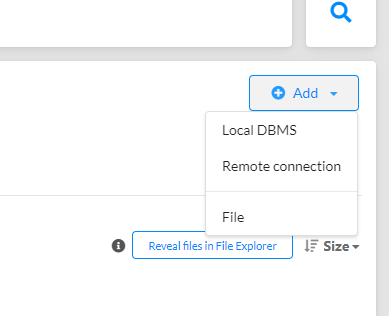
reason navigate back to the webpage we kept open and click copy to clipboard again).



Once the key is entered this should take you to the default loading screen. Press on new in the upper left, then press create project.



This should be the default new project template. Then go to the Add button on the top right, selecting local DBMS.

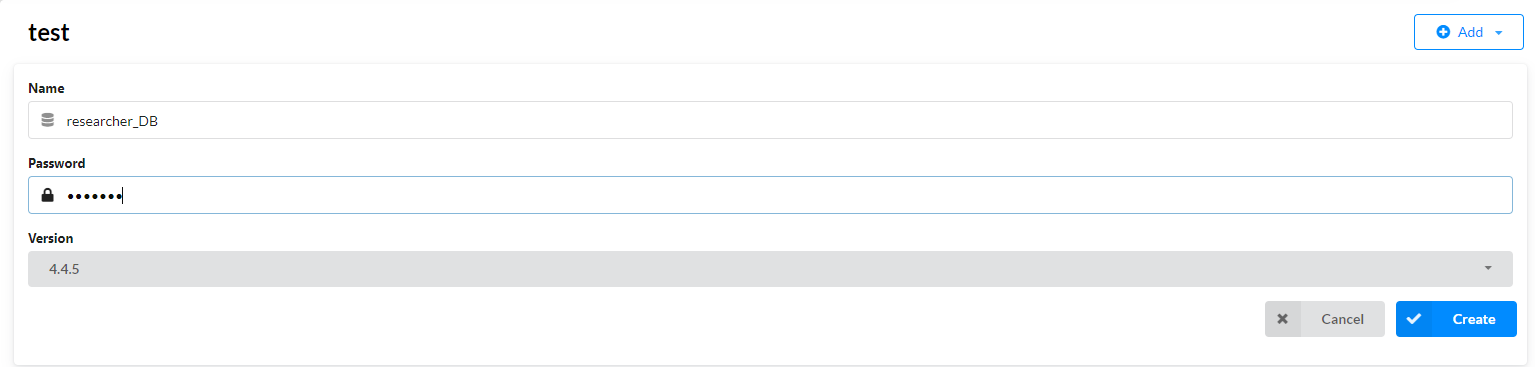
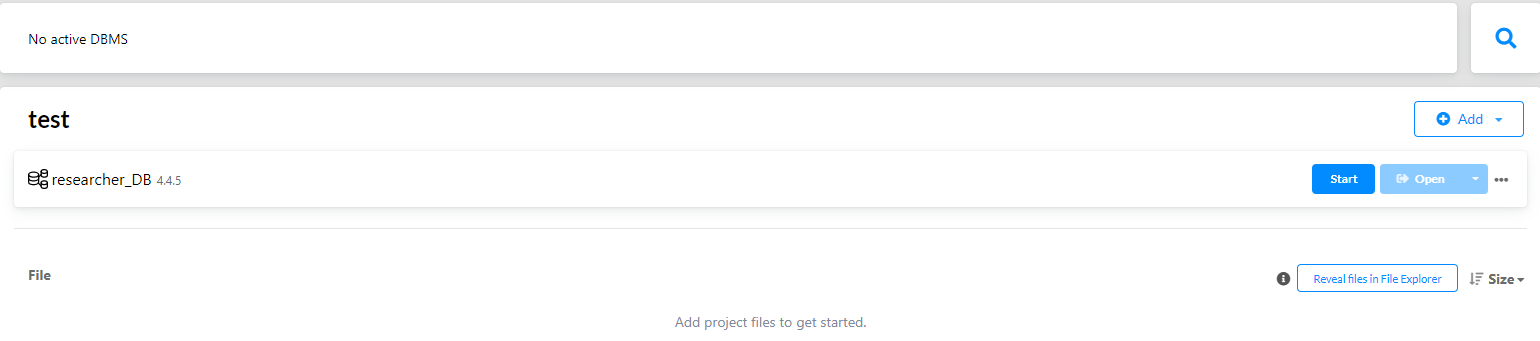


Once you’ve done that, this form should pop up. Fill in the details as specified bellow:

Name: database

Password: group43

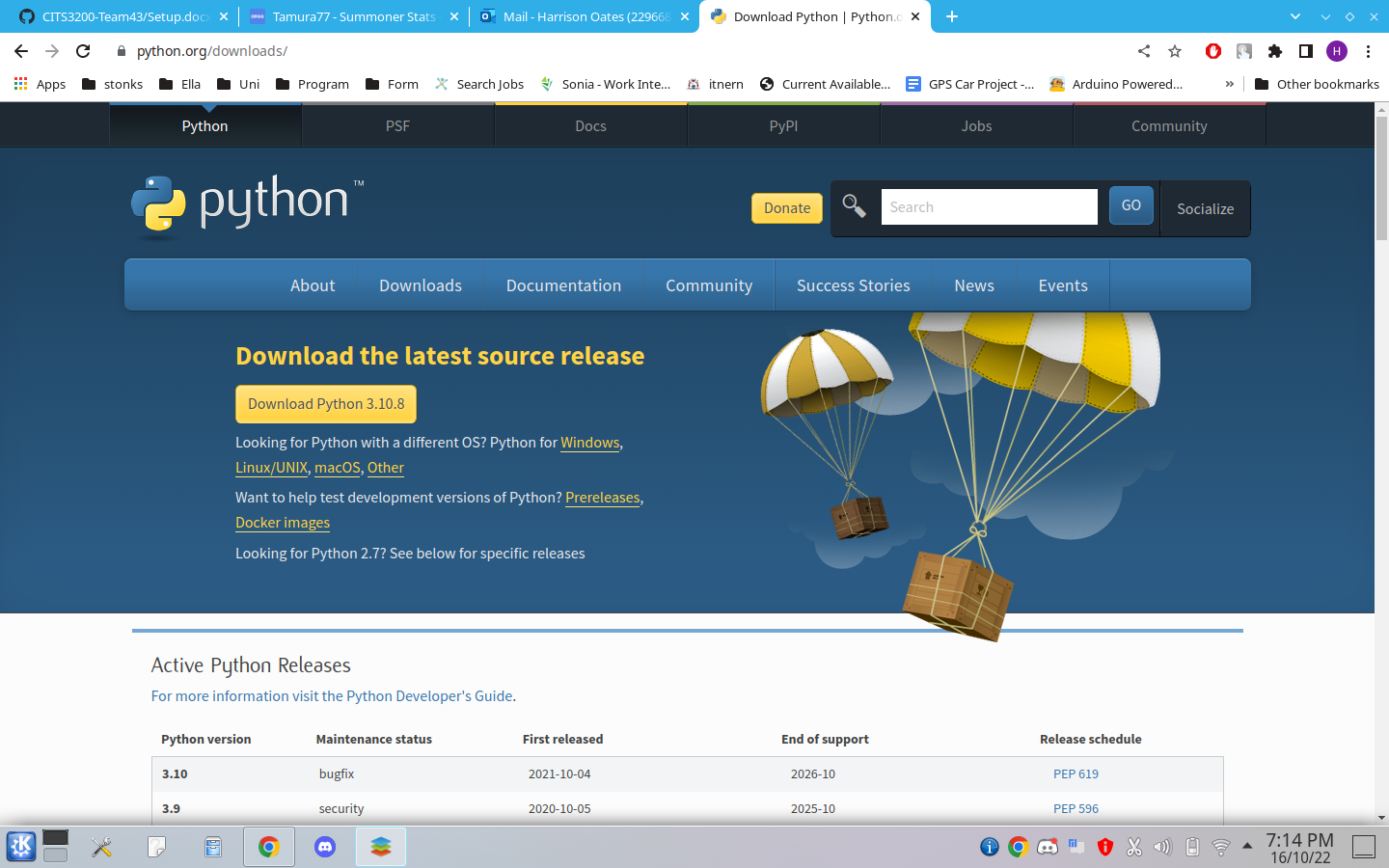
Then press create.



Once created, it’ll appear as seen down below. Then press start.

Downloading Python

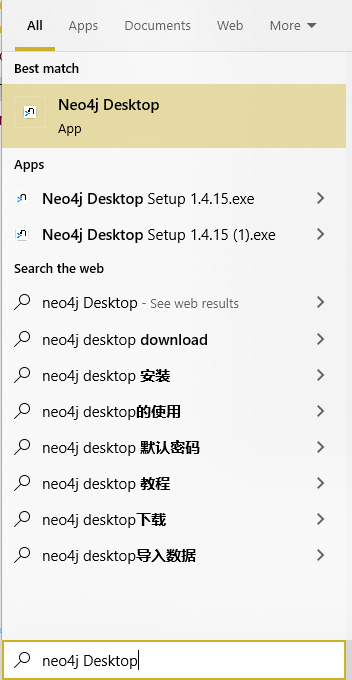
Navigate to the python download page [here](https://www.python.org/downloads/) and select Download python 3.10.8 (or whatever the current version is)



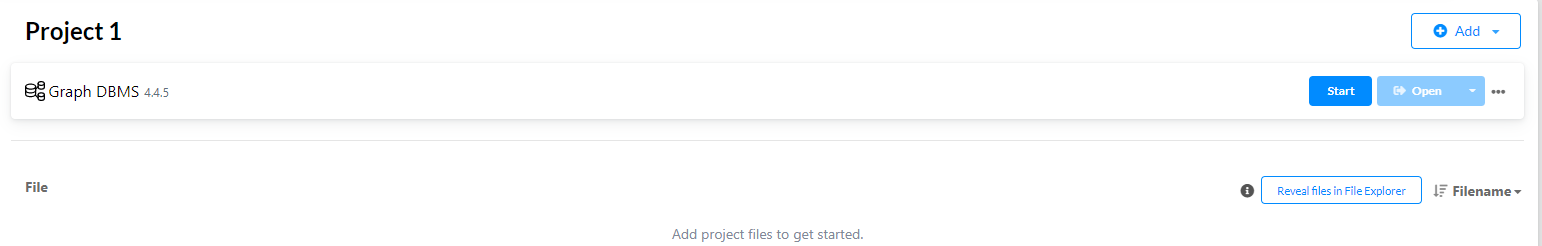
Once downloaded open the installer and it should take you to a window that looks like this, click on install now and ensure that the box at the bottom for Add python to PATH is ticked. This should install python for you and once complete you can close this window

Running the Web App

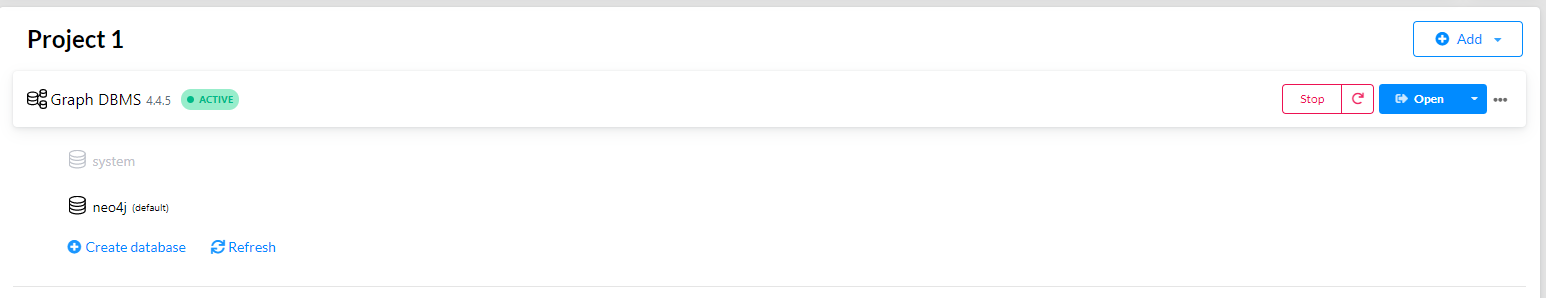
You’ll first need to open neo4j desktop, normally by searching your device for it.



Once opened you’ll need to press the start button.



It might take a bit of time to run, but you’ll know it’s running once the database has an active sign next to it.



Now you can open the web app by double clicking the start\_visualiser bat script and clicking [this](http://127.0.0.1:5000/) link.

User Manual

When you open the Visualiser you should get to a landing page like this. On the top right of the navbar there are three pages you can navigate between. Home the landing page seen when first loading up the Visualiser.

Text

Description automatically generated with medium confidenceA picture containing text

Description automatically generated

Clicking on the researchers button will take you to a page that looks like this. This is where you can edit the list of core researchers and change the API key in the event that it no longer works.

Graphical user interface, application

Description automatically generated

For example entering the Scopus ID 57219019970 which corresponds to Kimberley Burton and ticking the remove researcher box will remove her from the core researcher list. As can be seen below. Chart

Description automatically generatedSimilarly, if you put a Scopus ID in and click on add Researcher that researcher will be added to the core researcher list and can be searched in the network visualiser tool. Clicking on Senior Researcher will mark them as senior and limit the amount of connections they can make ensuring that the size of the database doesn’t balloon into

Text

Description automatically generated with medium confidence

In the event a core researcher publishes new research you can enter their Scopus ID and tick the Update Researcher box and the tool will update to represent those new co authors and connections.

Text

Description automatically generated with medium confidence

If you need a new API key for Scopus you can enter the new API Key into the box below and click submit.

Shape, rectangle

Description automatically generated

Clicking on Tool in the navbar will take you to the network visualiser which looks like this

Graphical user interface, text

Description automatically generated

To use the Network Mapper ensure that the neo4j Database is open as described in the Running the Web App section and then enter a Scopus ID or name into the search bar above as seen below. To navigate the network mapper click on an empty piece of “greyed” out area and drag and the view of the network will pan in whatever direction you move the mouse. To zoom in and out just click anywhere on the greyed area of the network and scroll with the scroll wheel.

Diagram

Description automatically generated

Alternatively searching with the researchers name also provides the same map as seen below. (Note. See the end of the document for a full list of researcher Scopus IDs and names as the names are case sensitive and must be exactly as specified in the list).

Diagram

Description automatically generated

Clicking on a researcher will highlight their connections and open a table with their details as seen in the images below. Clicking and holding on any node will allow you to drag and rearrange their position on the graph.

A picture containing diagram

Description automatically generated

Graphical user interface, application

Description automatically generated

Clicking on publications and then update graph will display the researchers publications as nodes on the graph with no names as seen below which are coloured based on type (Article, Review, Erratum ect).

Diagram

Description automatically generated

Clicking on these nodes displays the details of the publication they worked on as can be seen below

Graphical user interface, text, application

Description automatically generated

Clicking on expand and then search will display this publication node with all of the researchers that worked on it as seen below.

Diagram

Description automatically generated

Alternatively clicking on a linked researcher and clicking expand as seen below will expand the Network with all of that selected researchers connections. A picture containing chart

Description automatically generated

This is the expanded graph from the above selection. Clicking on different nodes we can see that we are now viewing the graph of Anna K. Nowak who was a first degree link to Kimberly Burton.

A picture containing chart

Description automatically generated

Chart, scatter chart

Description automatically generatedZooming in and clicking on one of the nodes we can see second degree links to Kimberly.

We could then click on this second degree and expand again to check how connected this second degree link is as seen below (note this may take a moment).

Chart

Description automatically generated

When searching for Core researchers clicking the Second-Degree Connections will display a graph with all the second degree links to that core researcher as seen below, the above steps can then be taken again to keep expanding this graph. (note searching with second degree connections may take a while)

A picture containing graphical user interface

Description automatically generated

Core Researcher List

Copy and paste Scopus IDs and Names from here to avoid searching with errors. If the names are not exactly as specified in this table the search may not bring up that researcher.

