# USAGE GUIDE FOR PeNDeS

## Installation for PeNDeS:

Use google for Help to install the below prerequisite software for PeNDeS:

1) install node

2) install mongo db

3) install git

4) install python

## B. Install the following node modules:

npm install -g webgme-cli

mkdir CS6388-01-PeNDeS

Git clone the repository

https://github.com/nithinkumar030/CS6388-01-PeNDeS

cd CS6388-01-PeNDeS

Install the following node modules:

npm install

npm install --save lodash

npm install --save jointjs

python -m pip install webgme-bindings

npm install webgme-bindings --save

Try this for vscode errors during bindings --save

npm install --global windows-build-tools --vs2015

npm config set msvs\_version 2015

Finally start the WebGME server:

node ./app.js

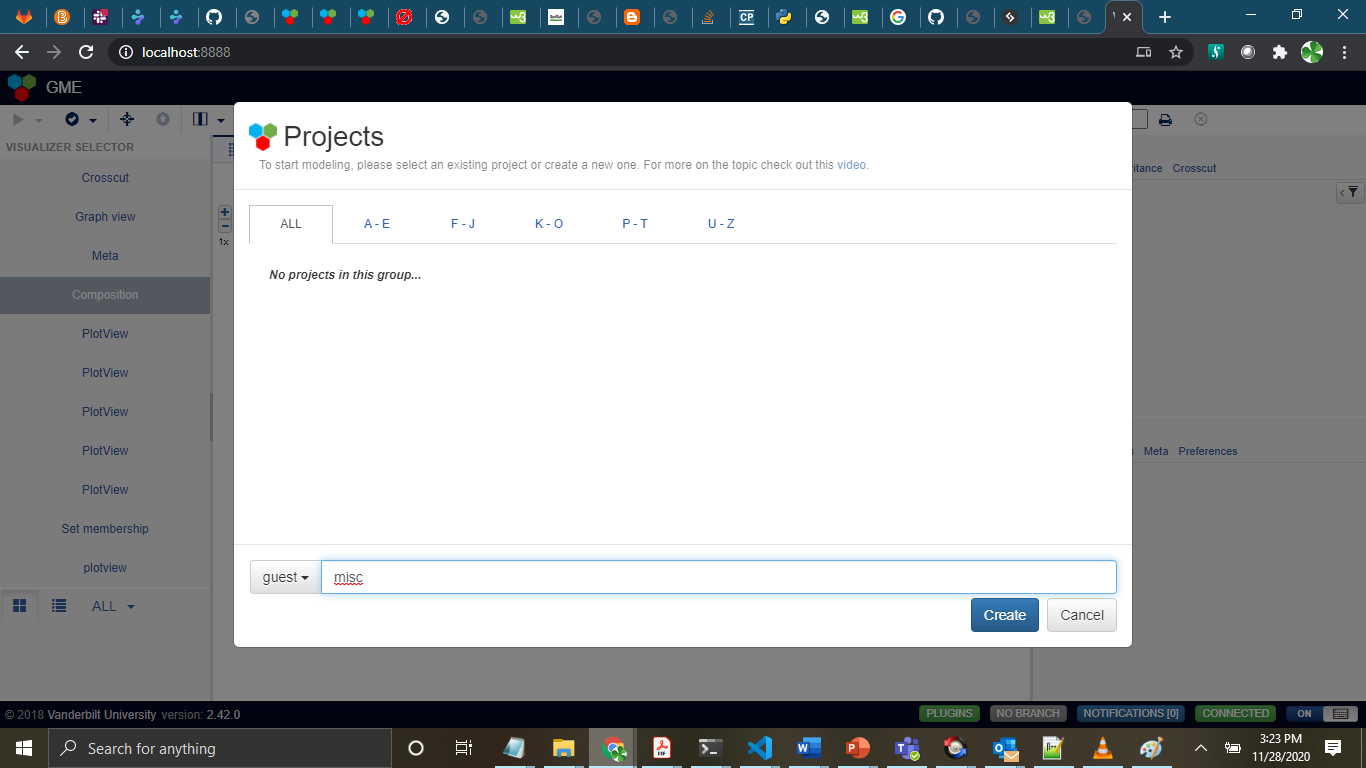
Use a browser and open using below link to open the design studio:

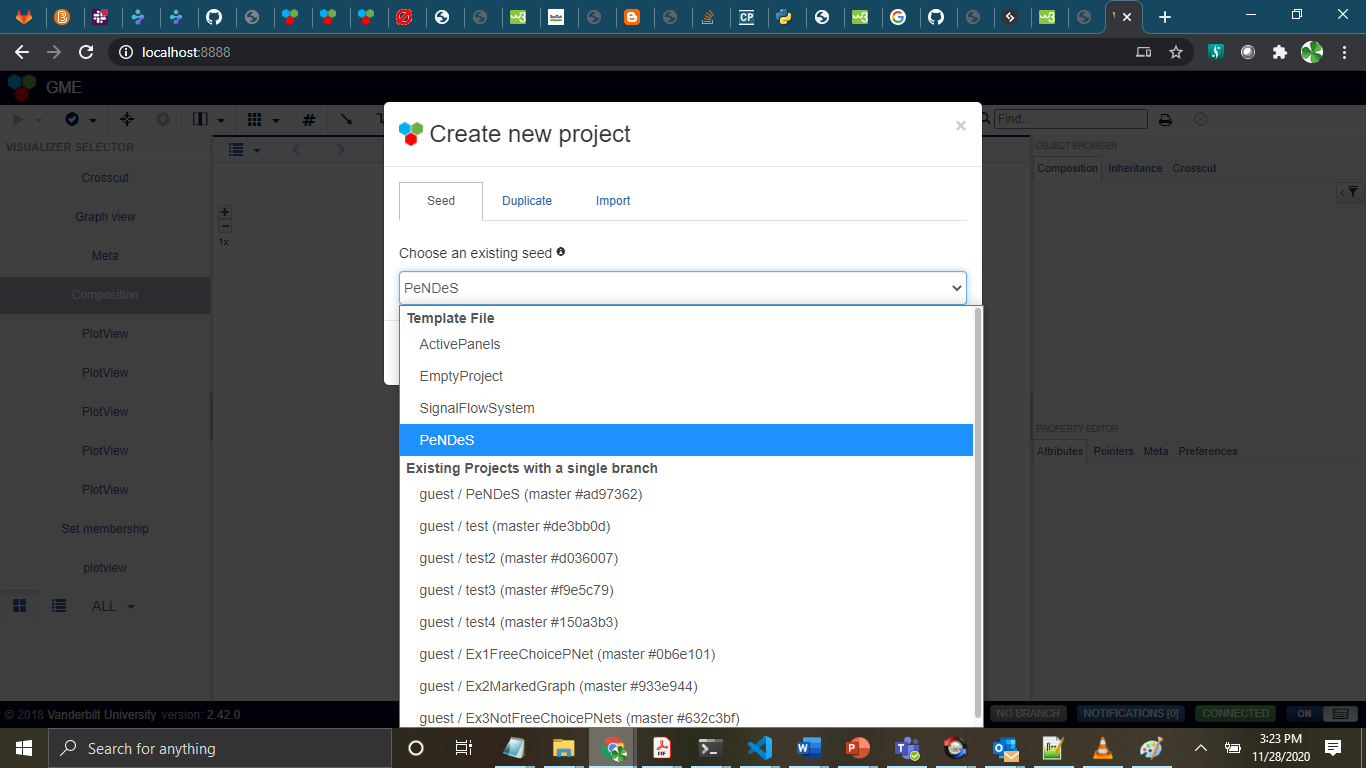
http://localhost:8888/

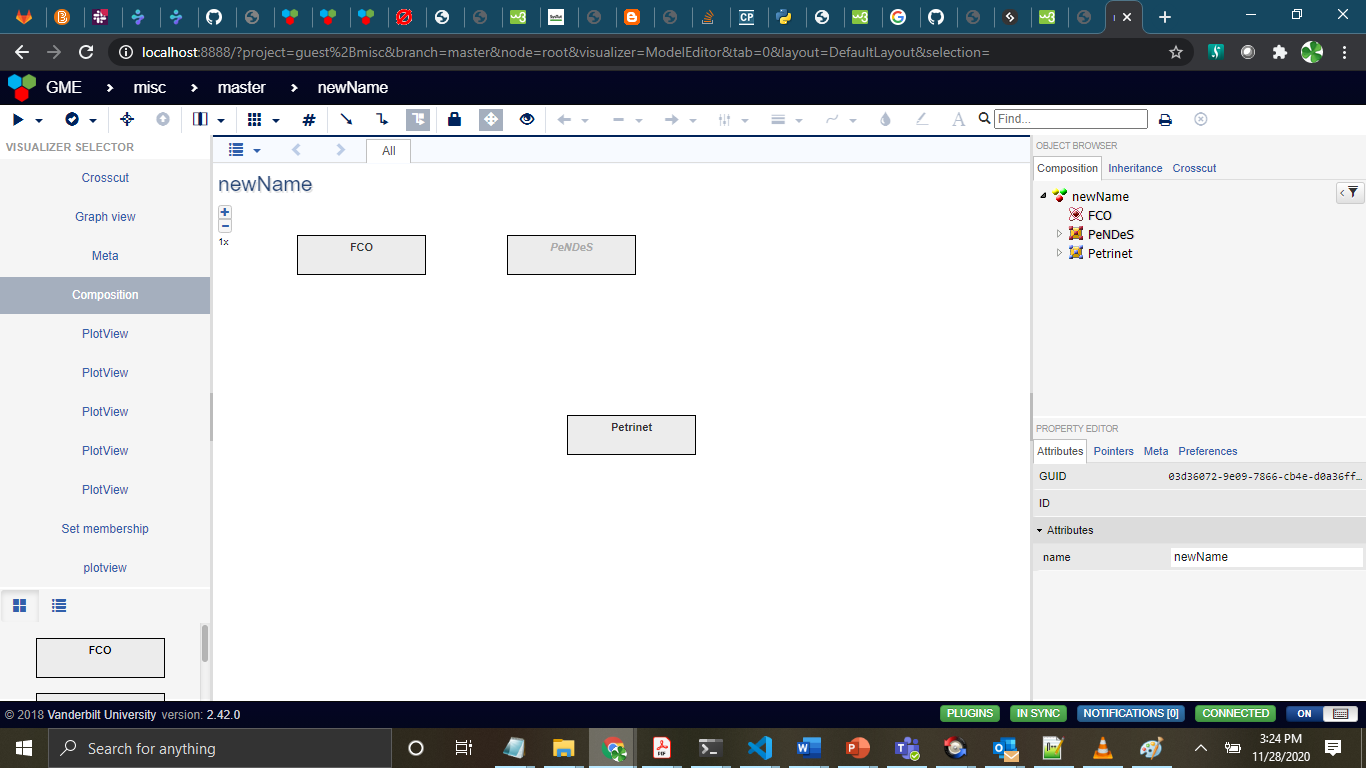
# C. Design studio Usage:

Click on the GME icon and open the project meu

You can create a new project : Type the name and use the PeNDes as seed.



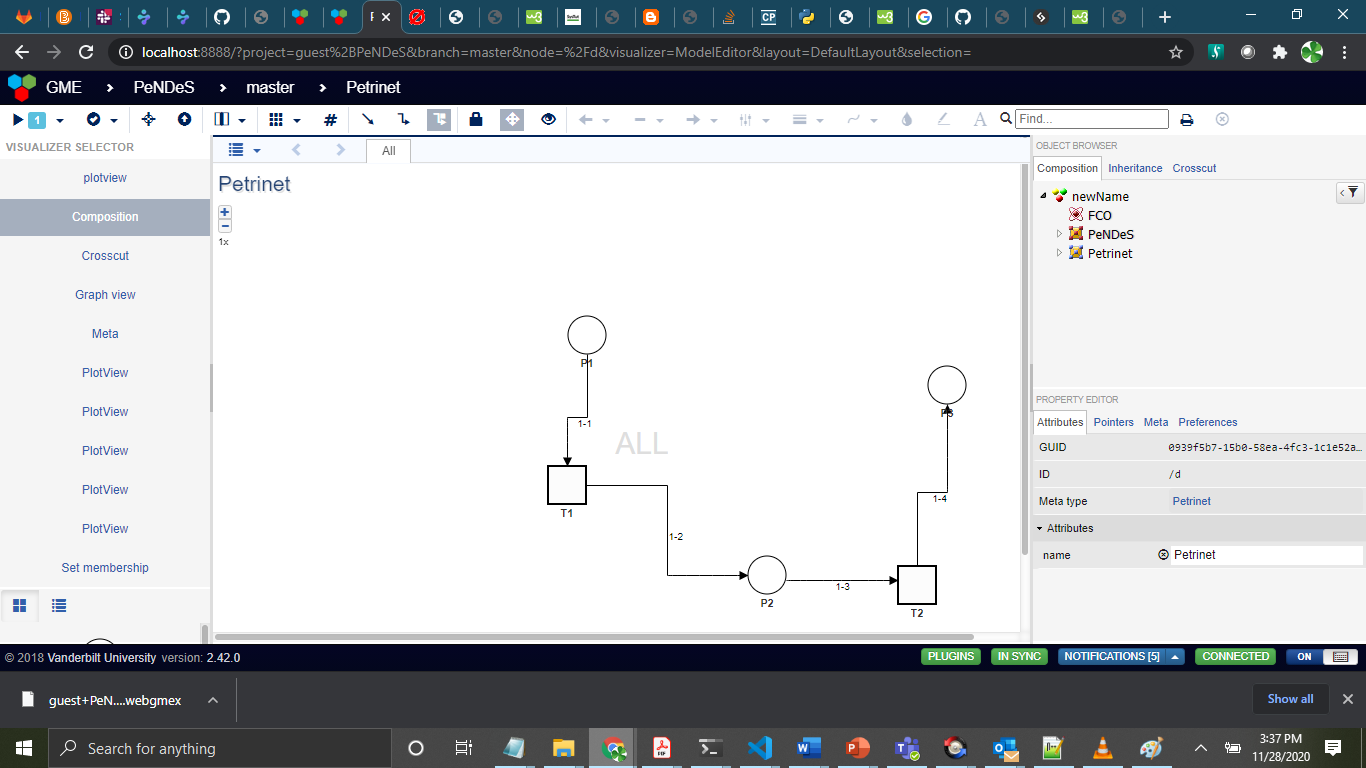


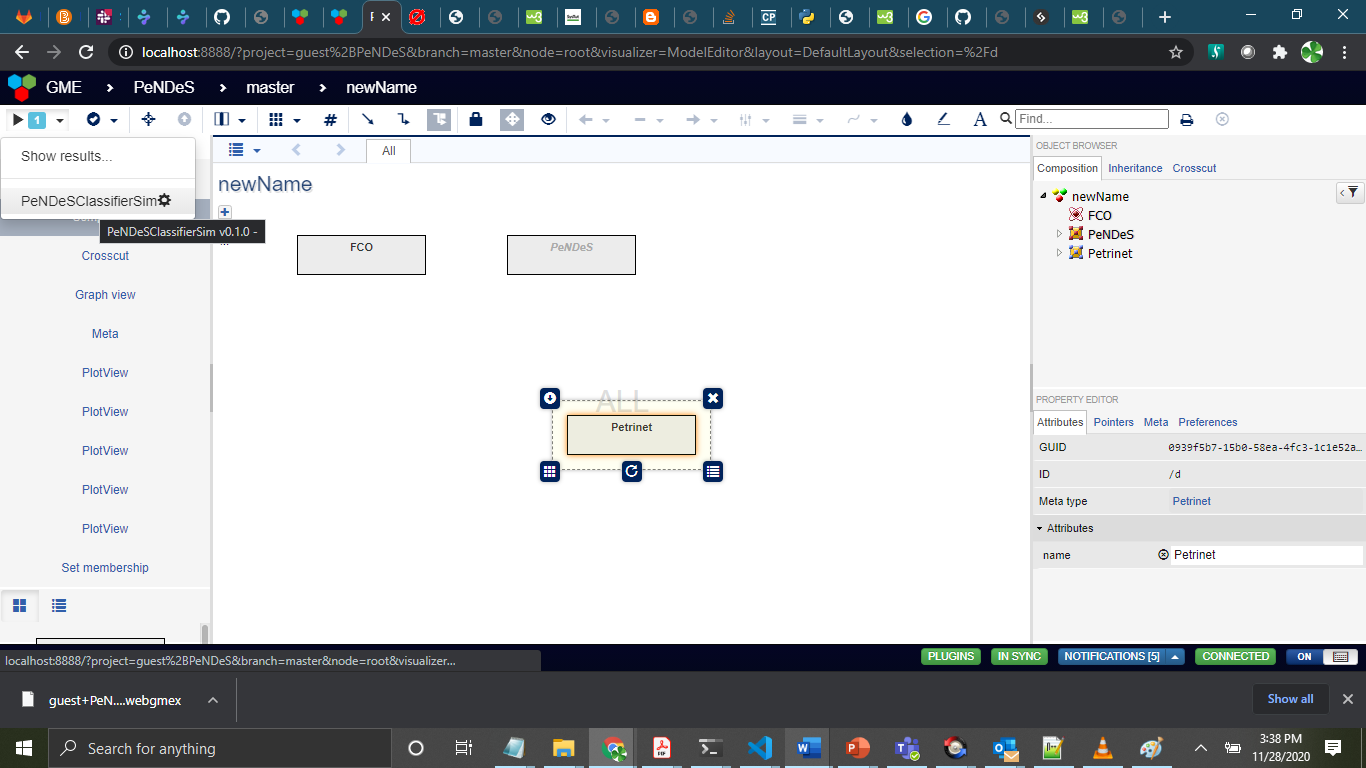


Landing page: Click on the Petrinet icon and

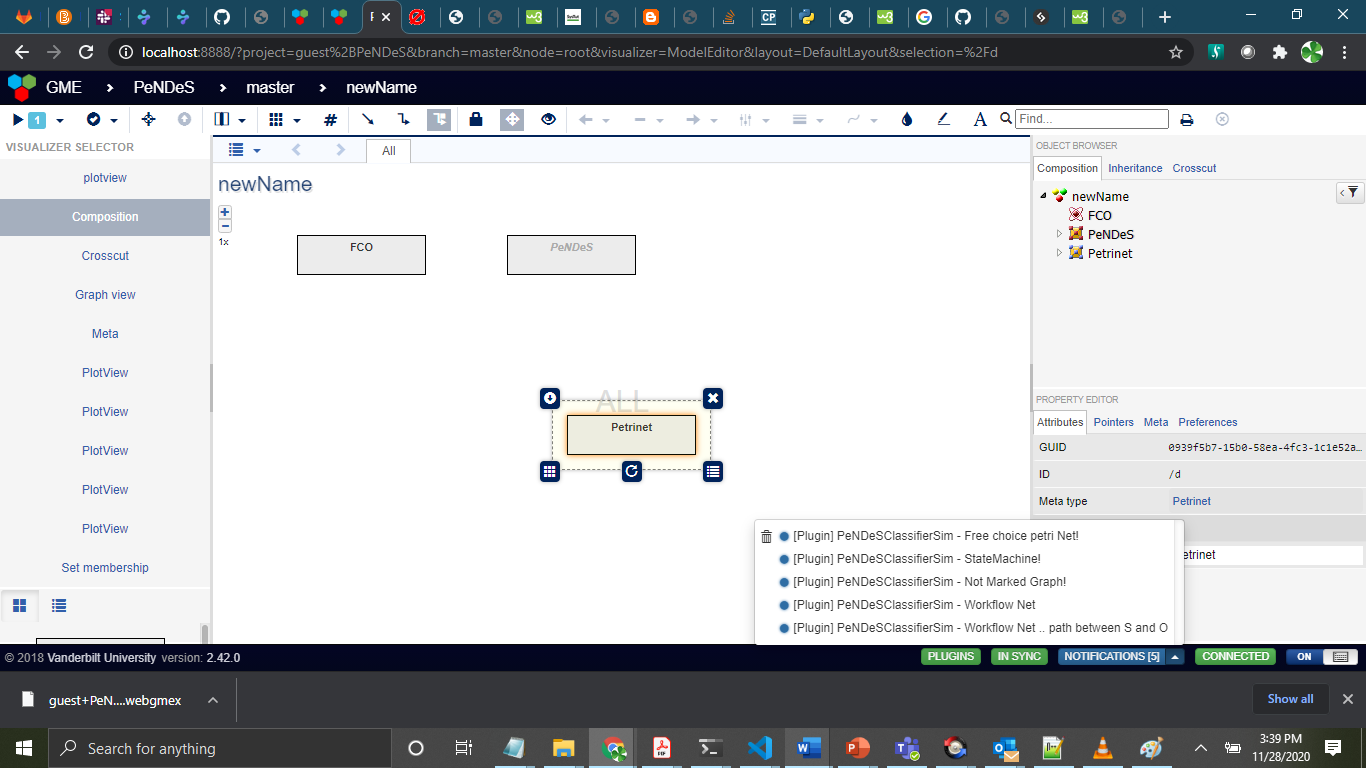
This is the default petrinet editor. You can customize editing the nodes with different names

Edit the default Petri Nets to create your custom one

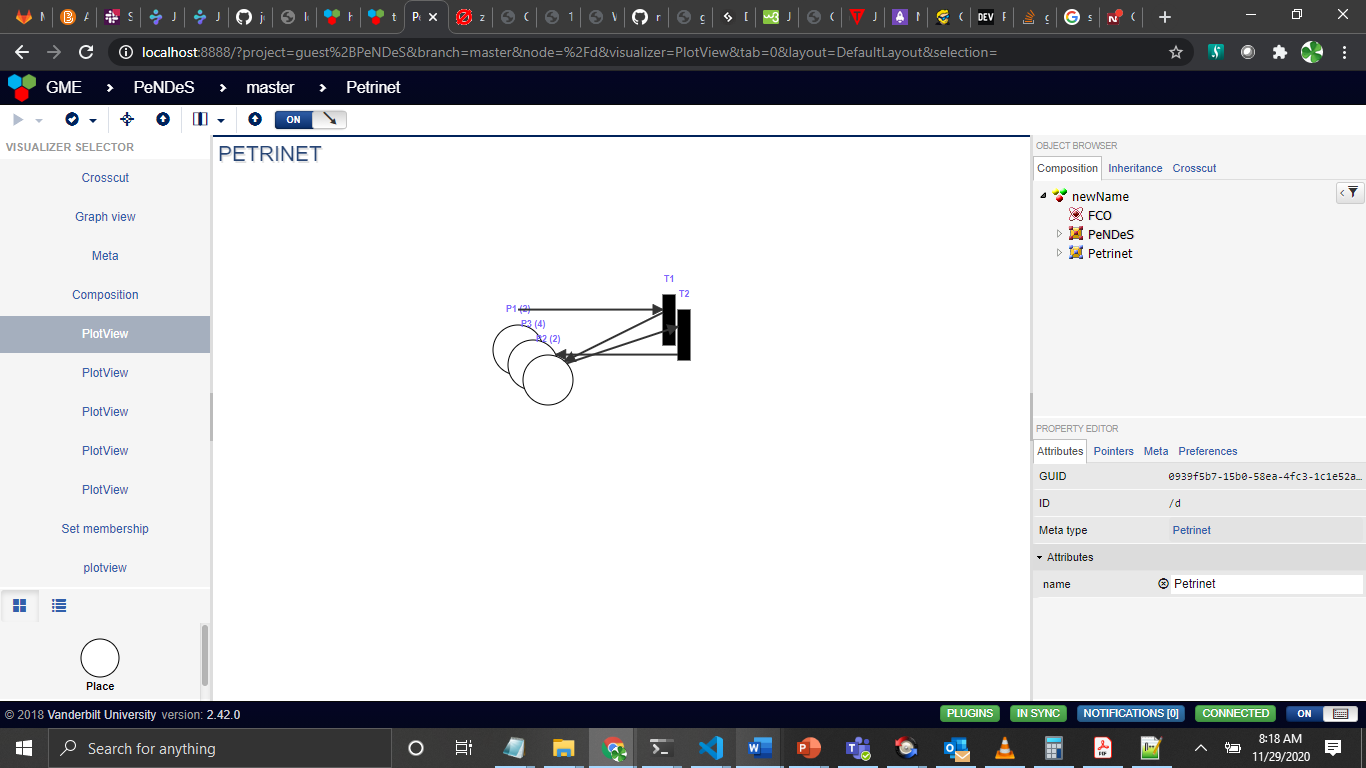


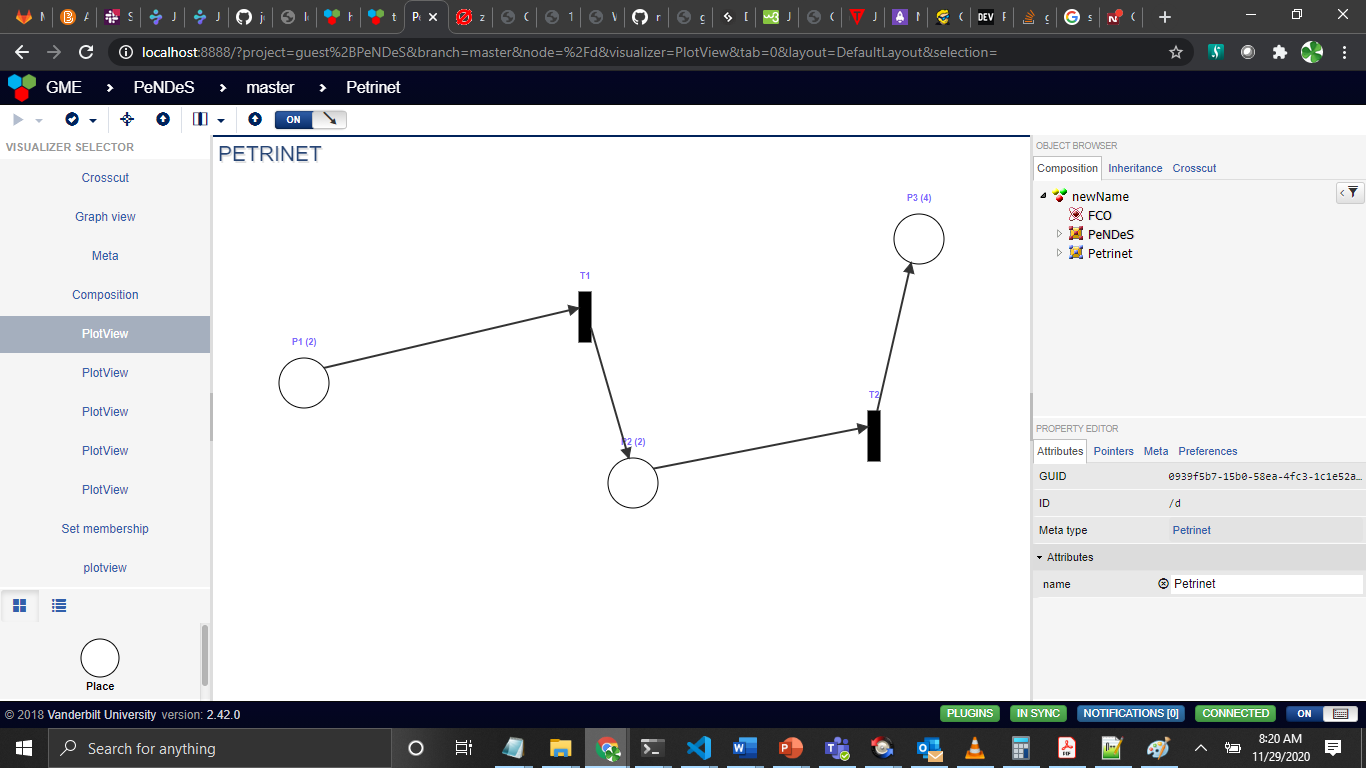


Run the petri net classifier to understand the type it belongs



Result of the petri net classification as notifications

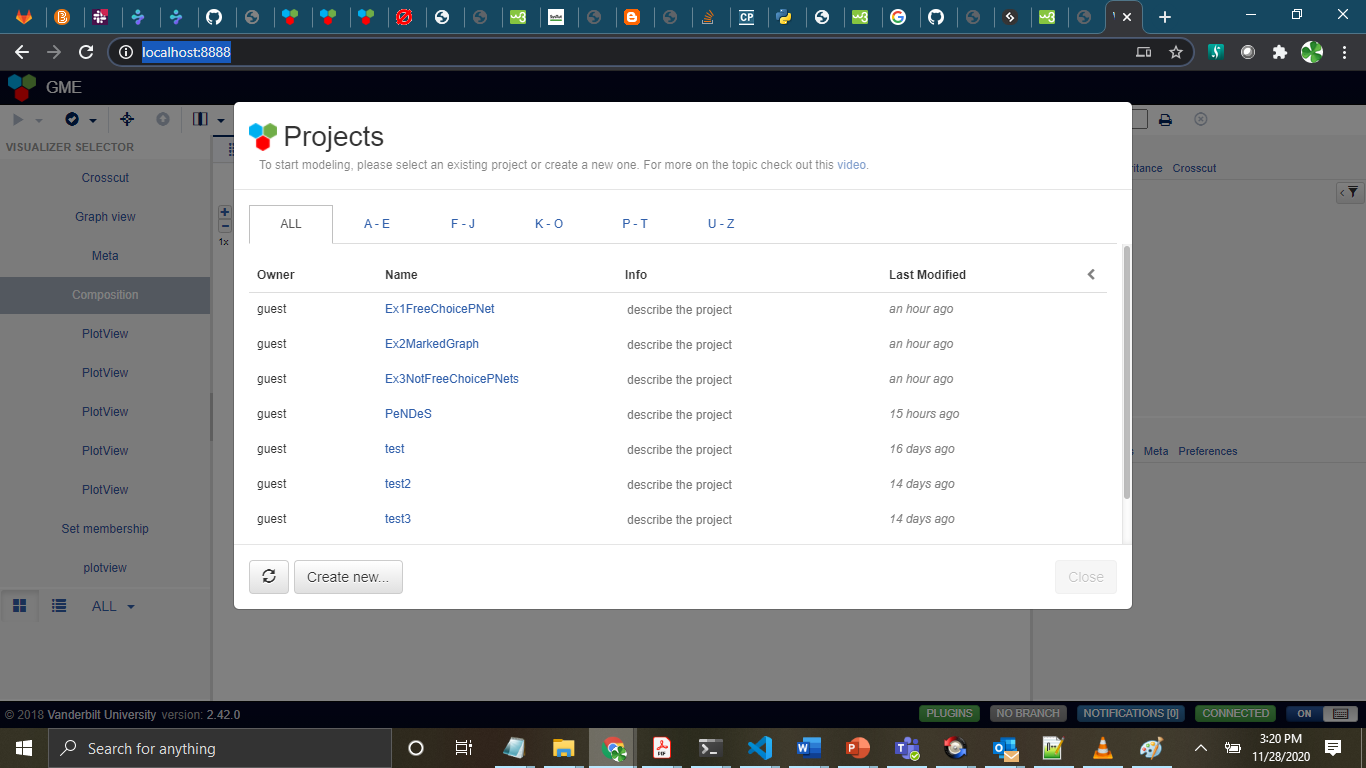


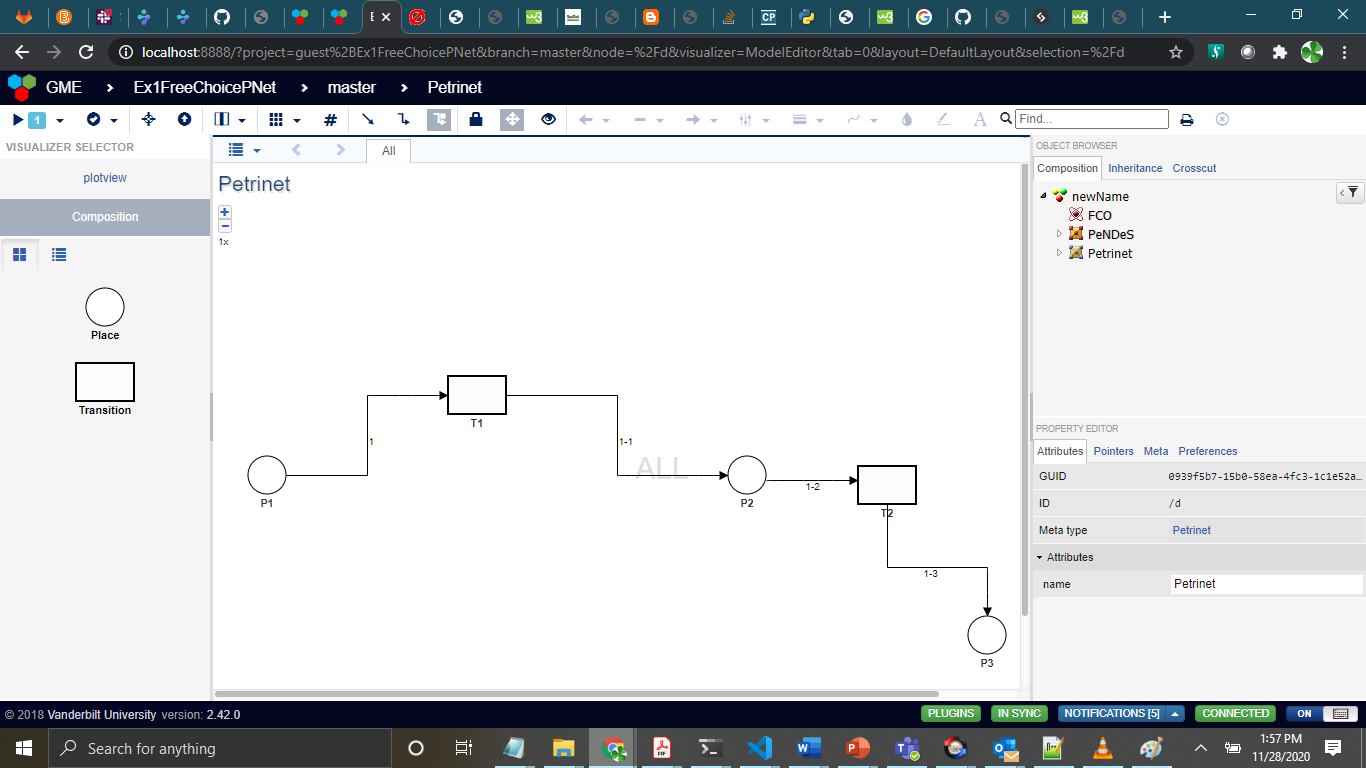


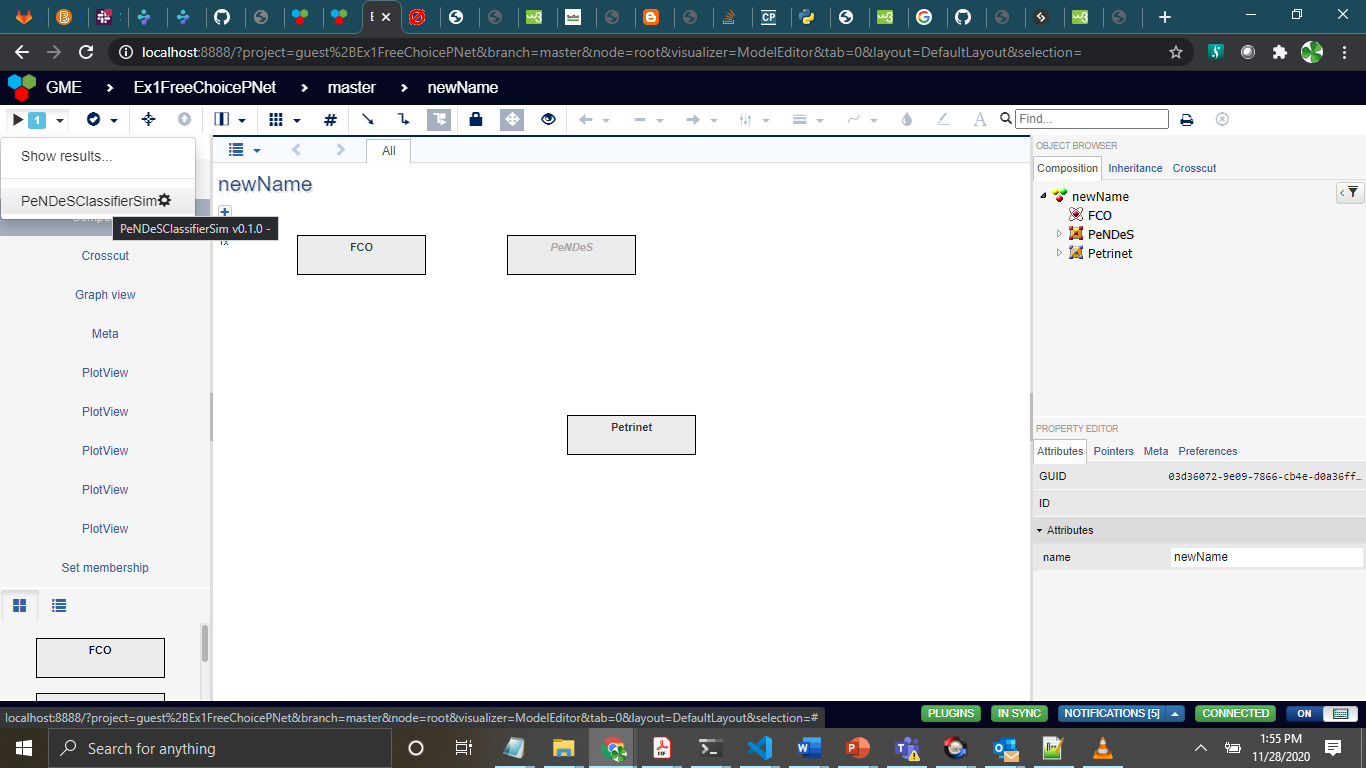
**Note: You can interact with the petri net contents by dragging the elements so that view becomes more realistic petri net according to user convenience. The parenthesis value in Places denotes markings.**

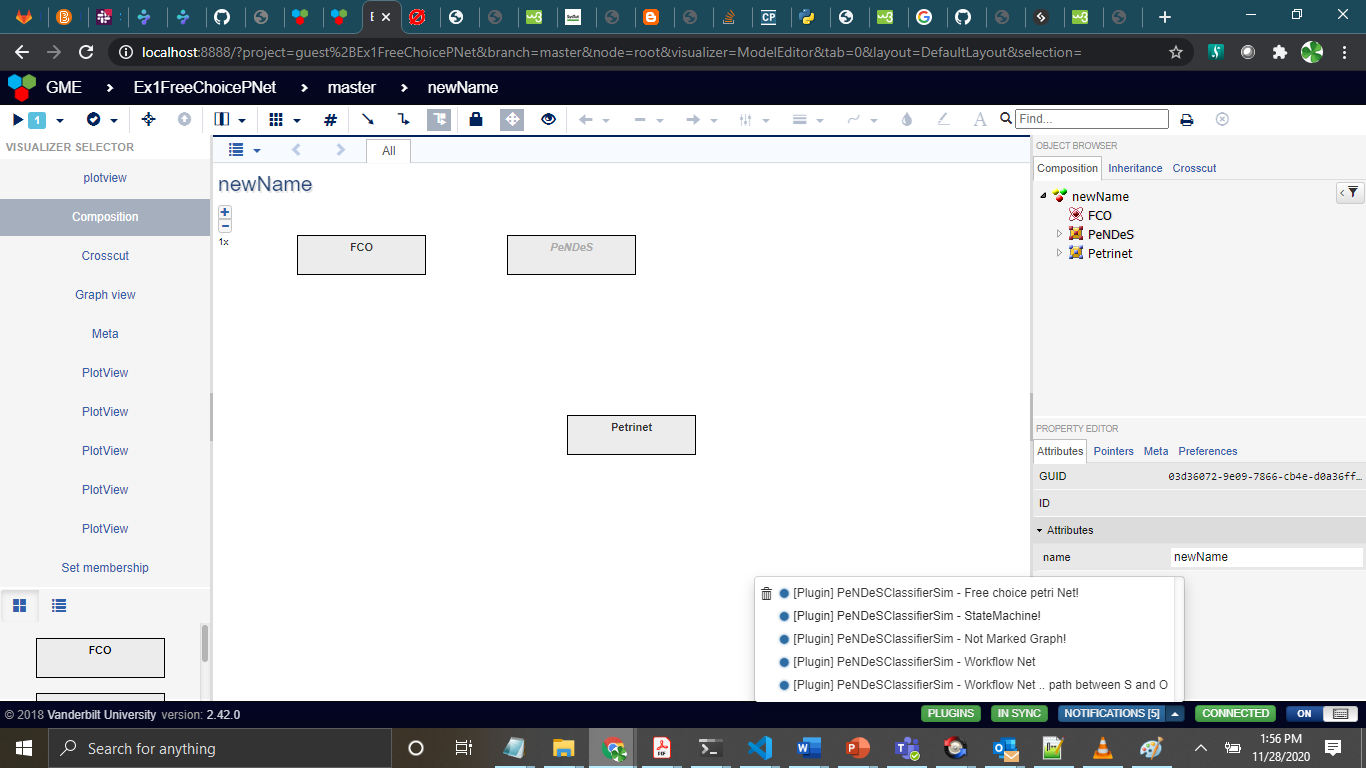
## Next : There are some examples of petri net types and its usage explantions :

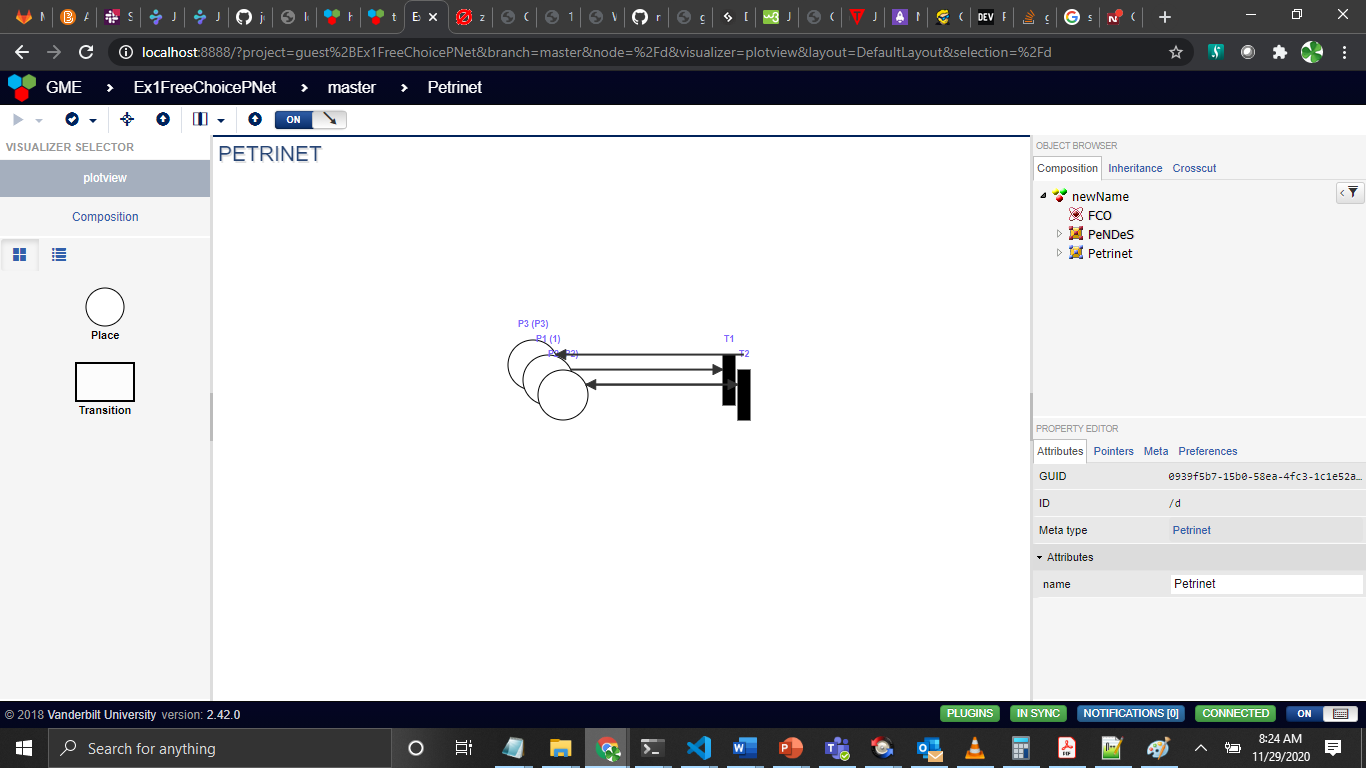
1. FreeChoice Petrinet

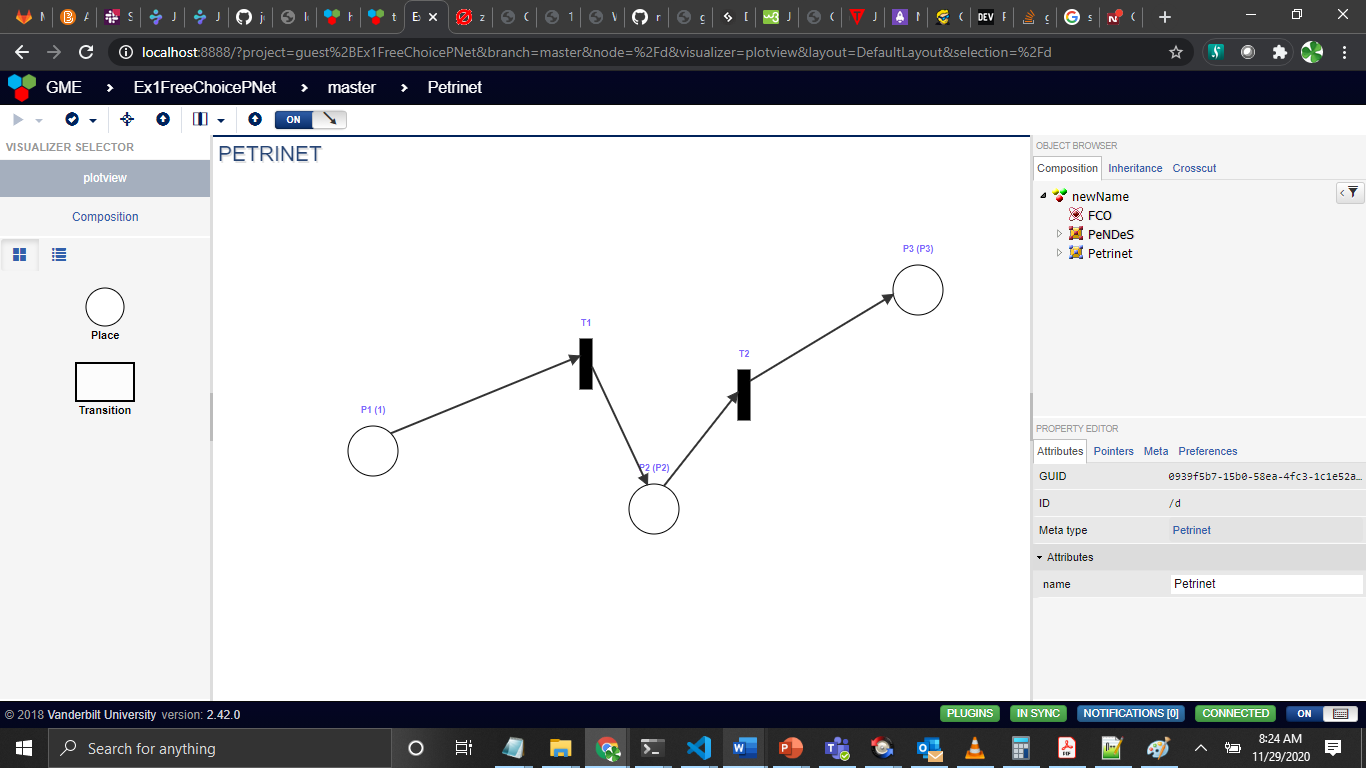






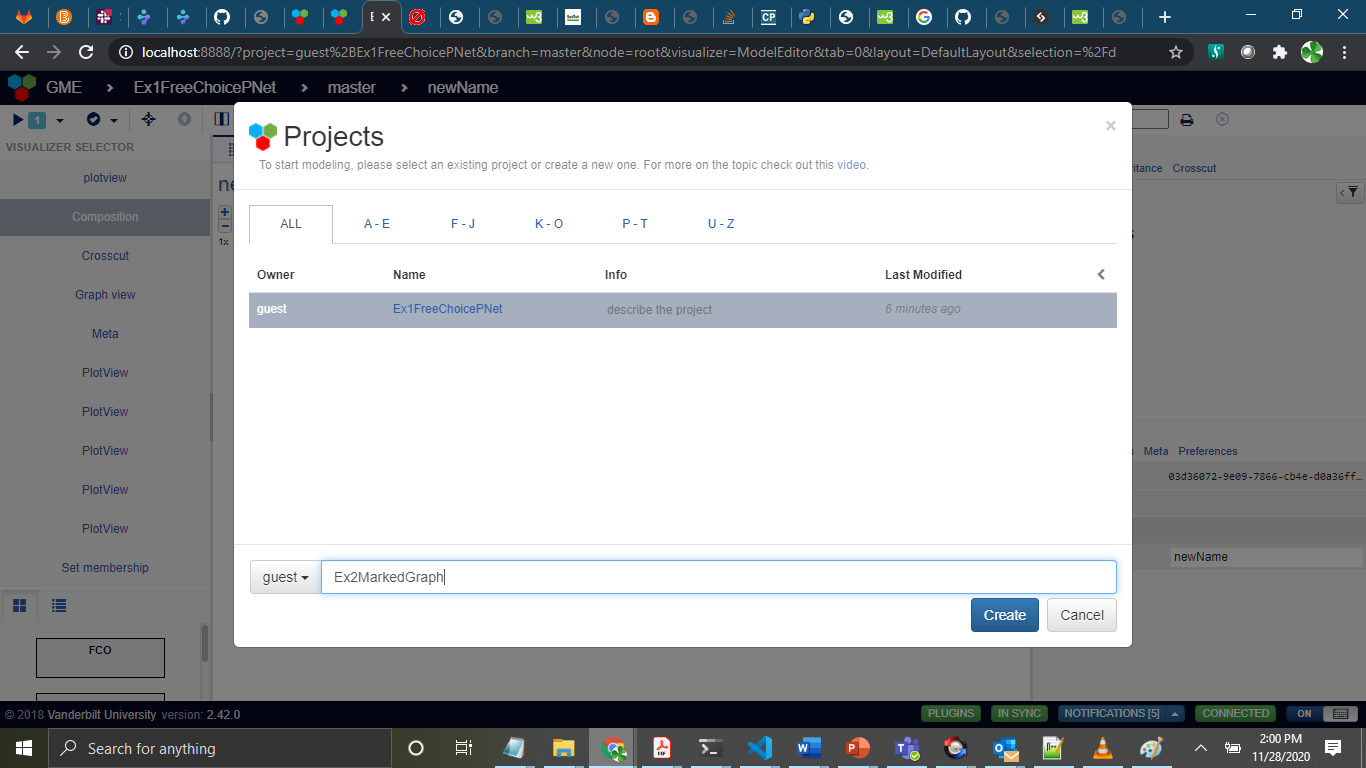


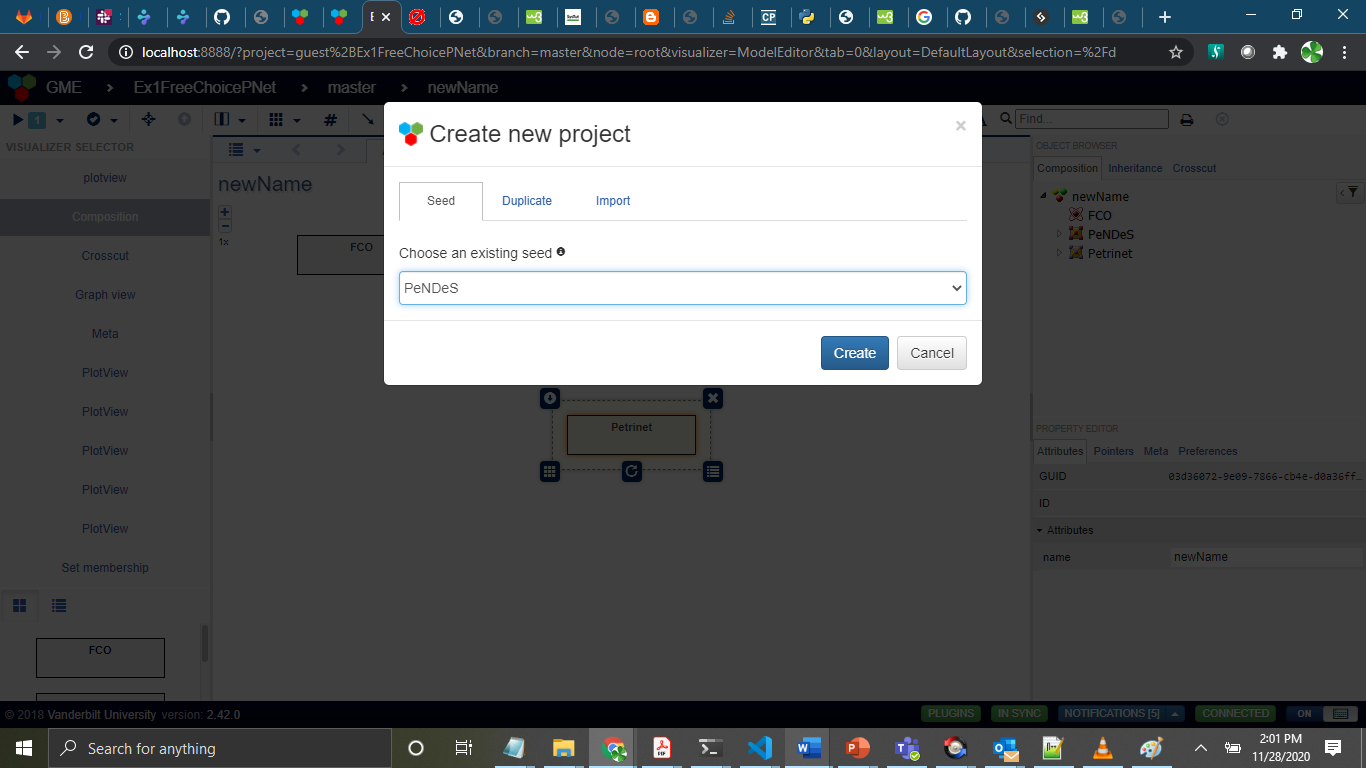


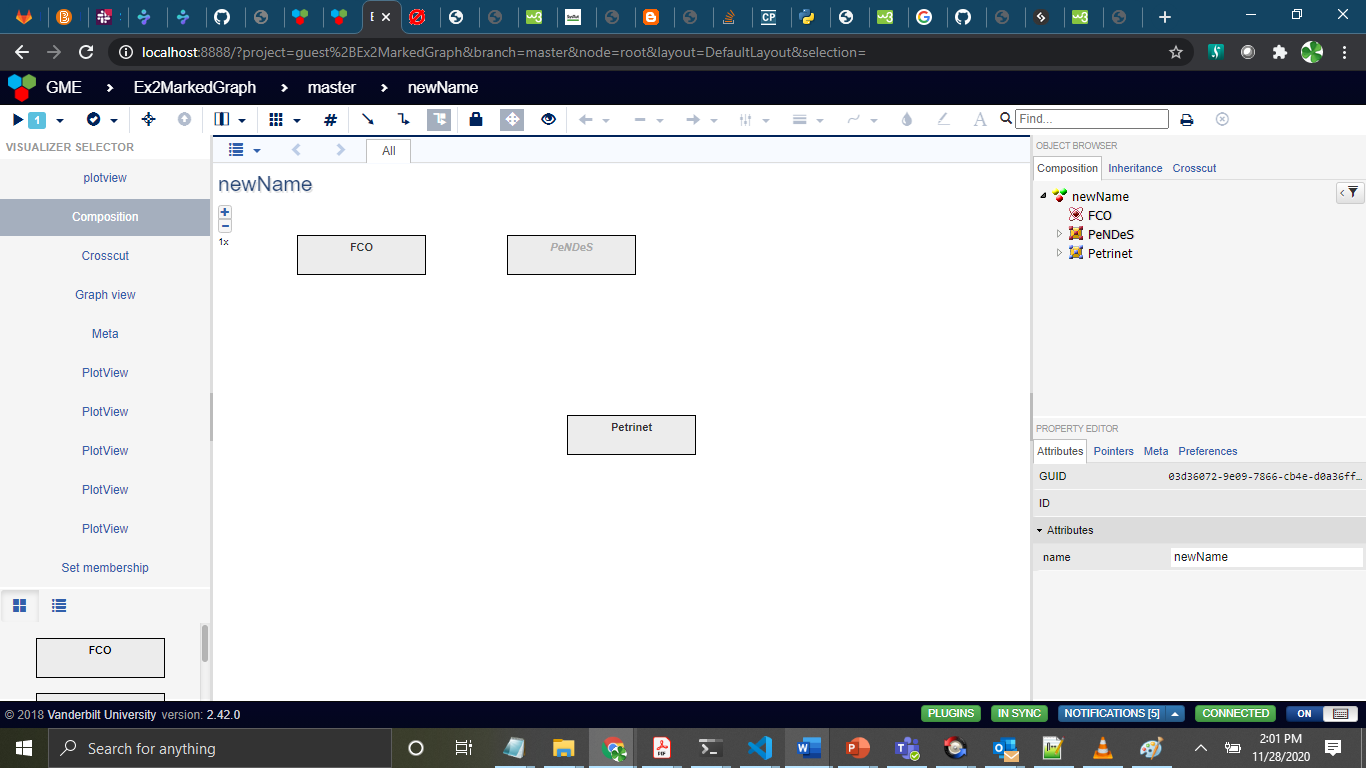


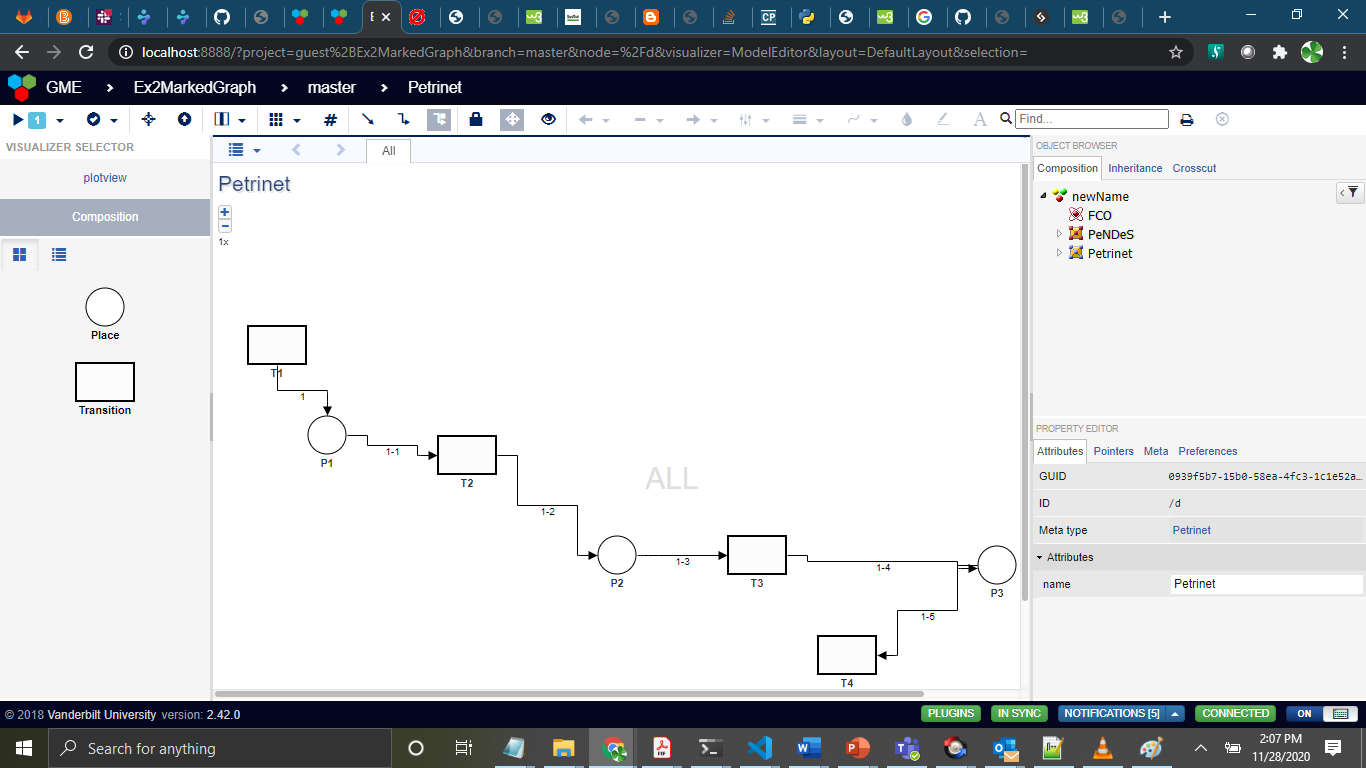
Note: After placing the elements properly in accordance with user convenience.

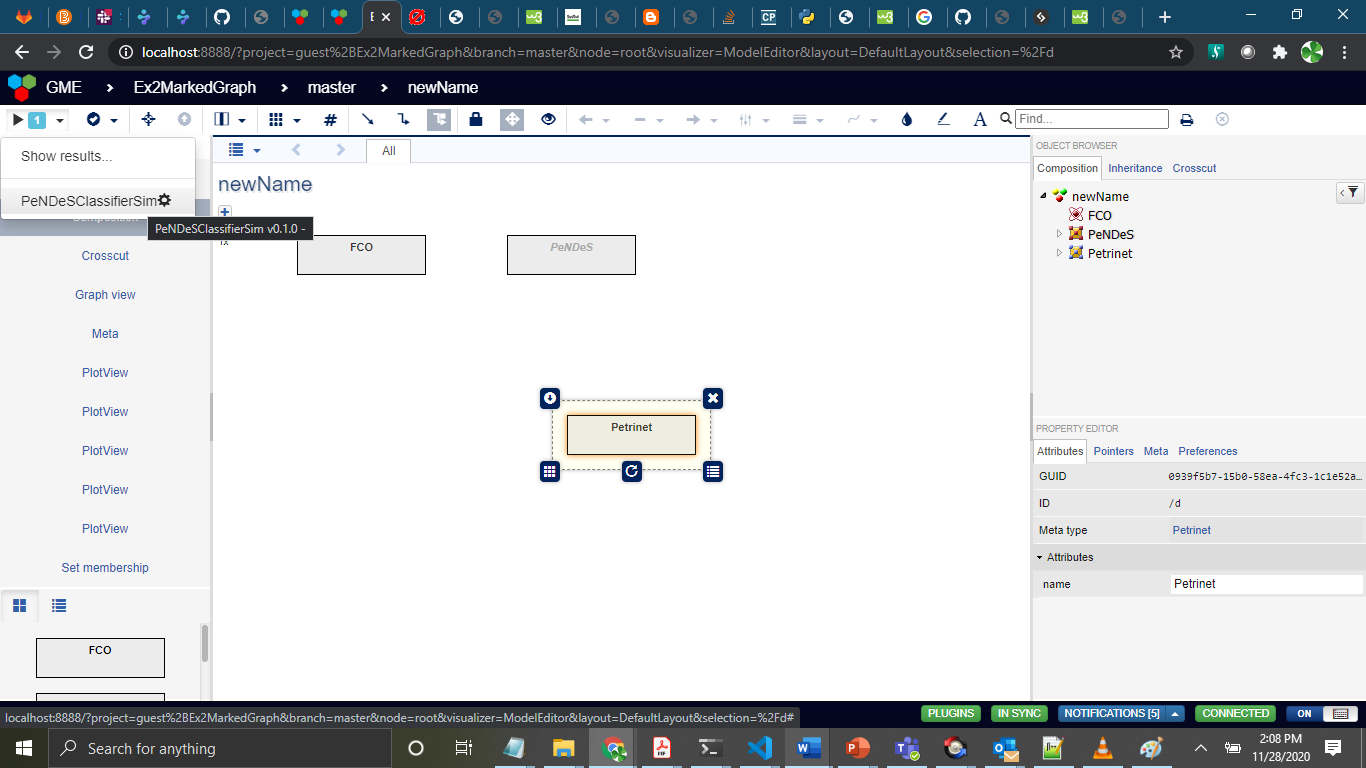
1. Marked Graph petrinet:

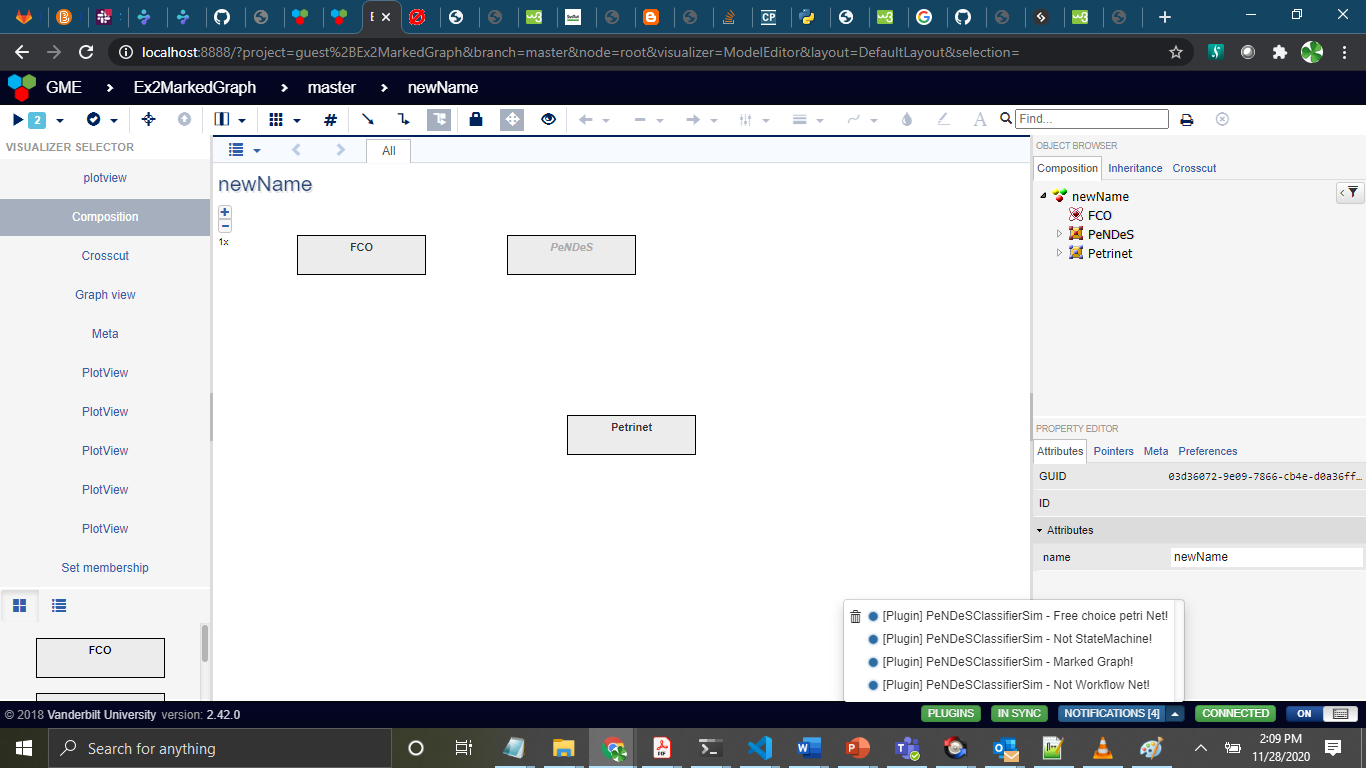


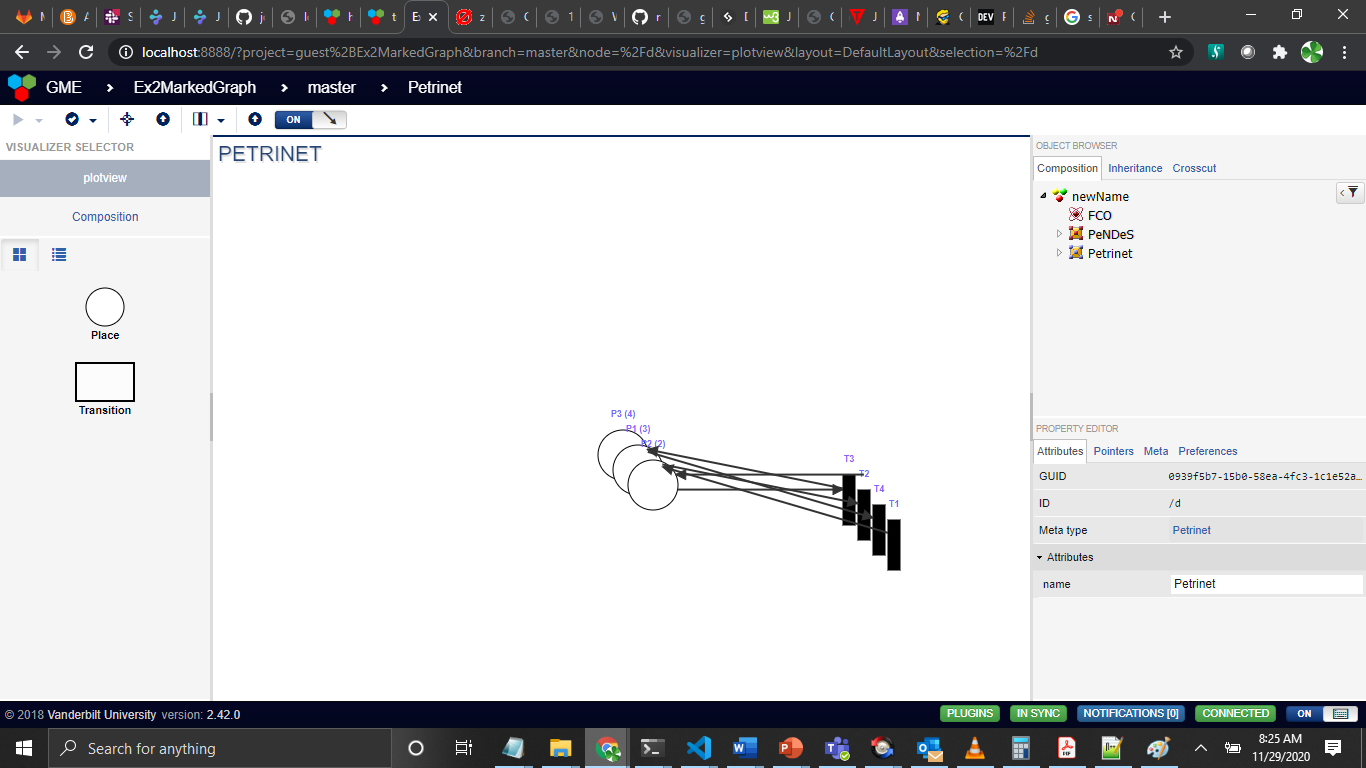


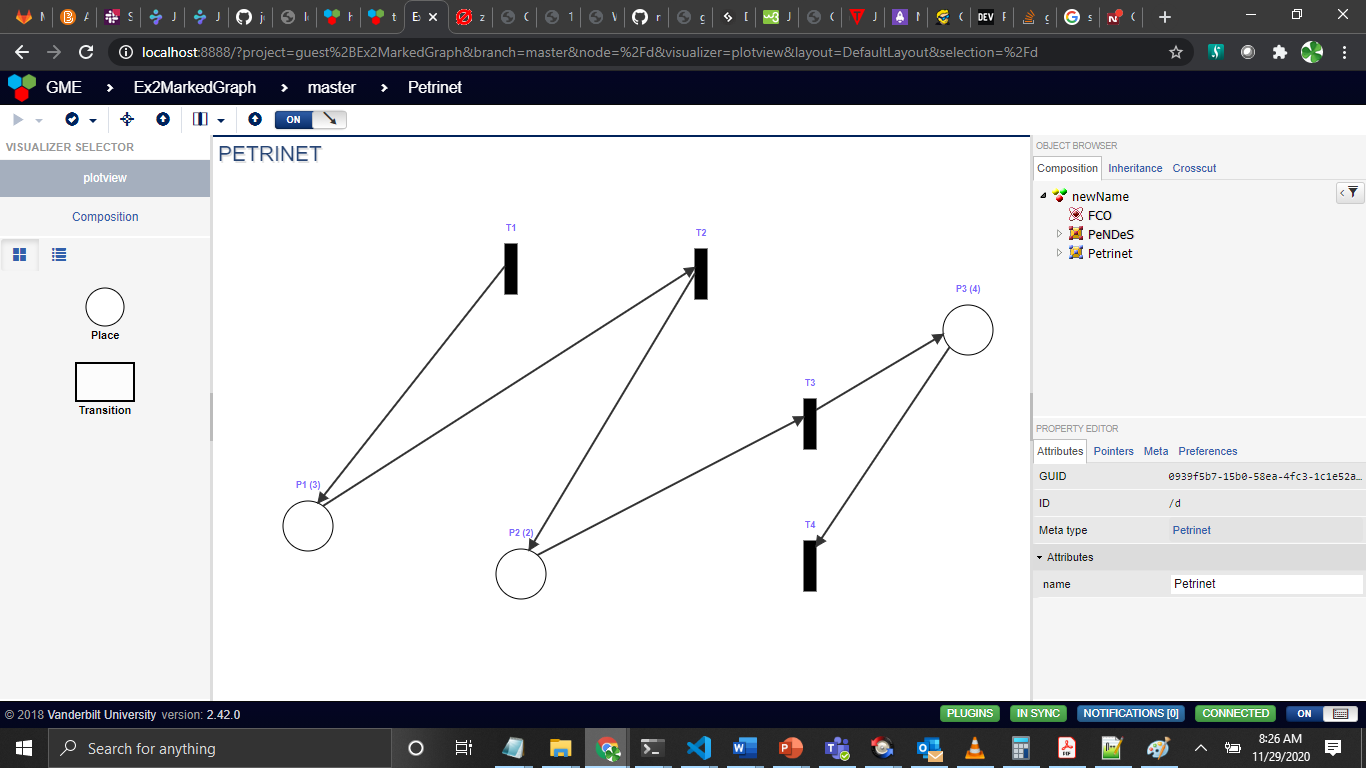






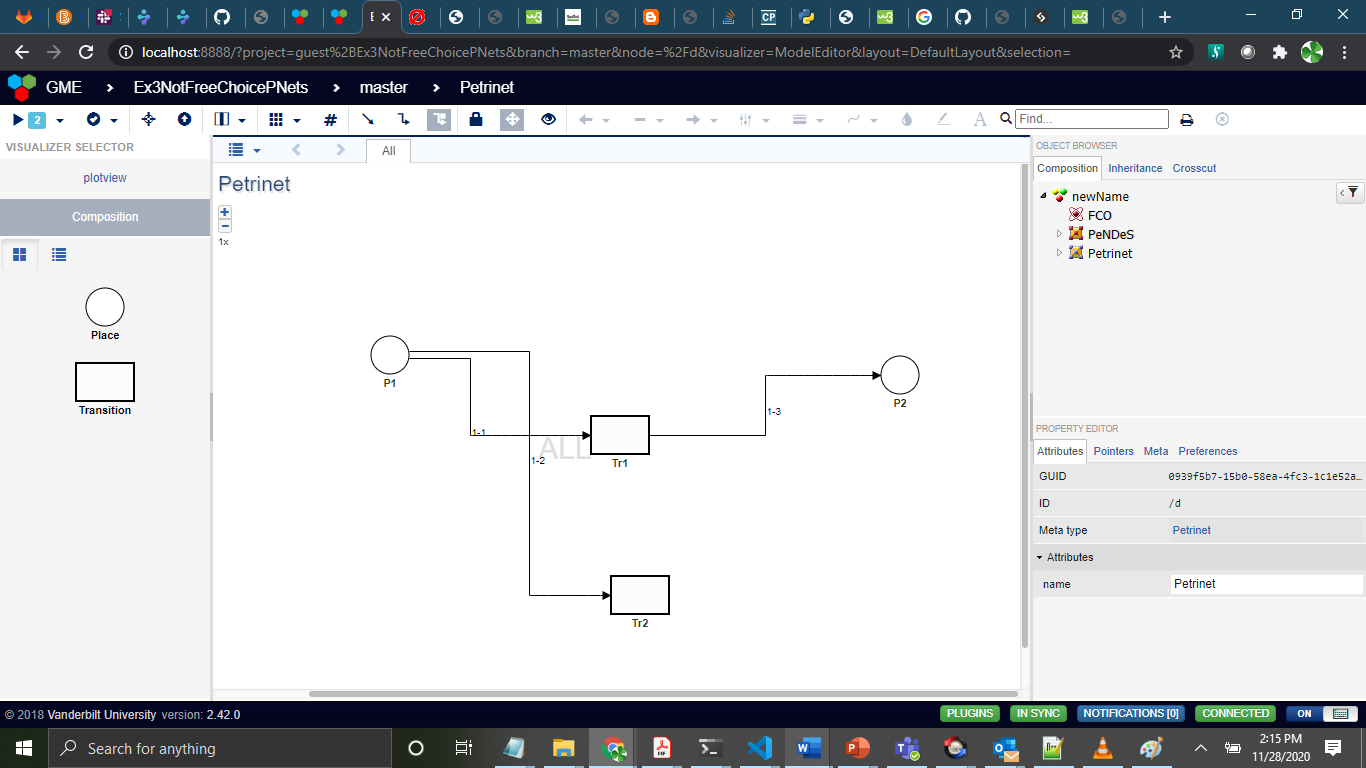


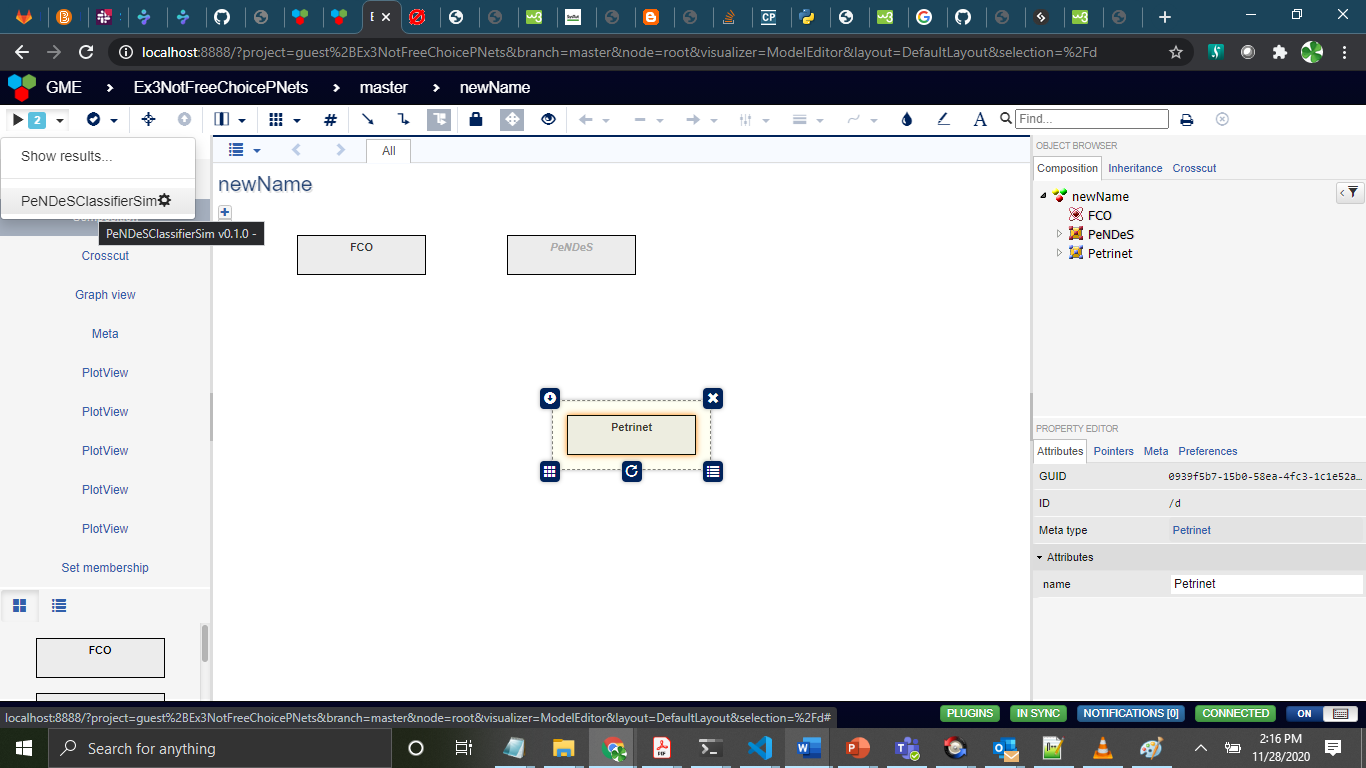


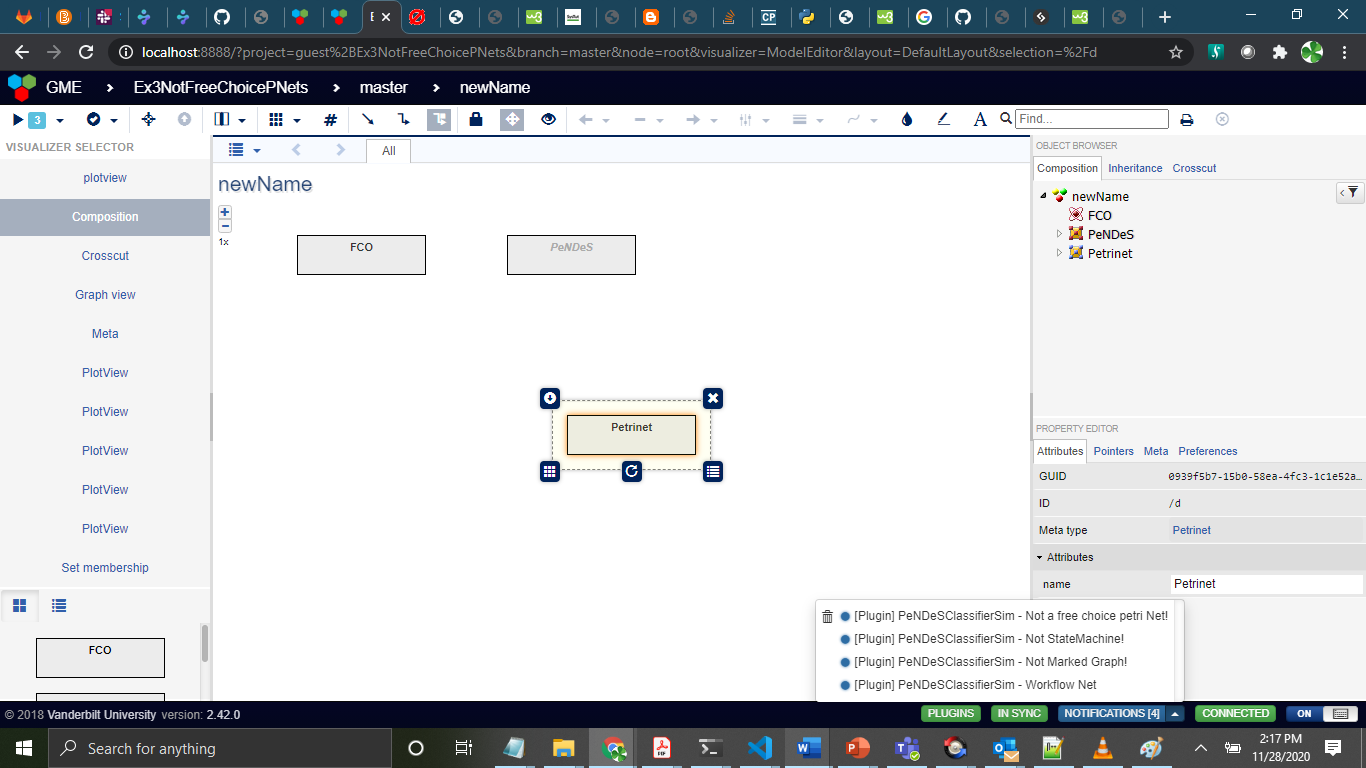


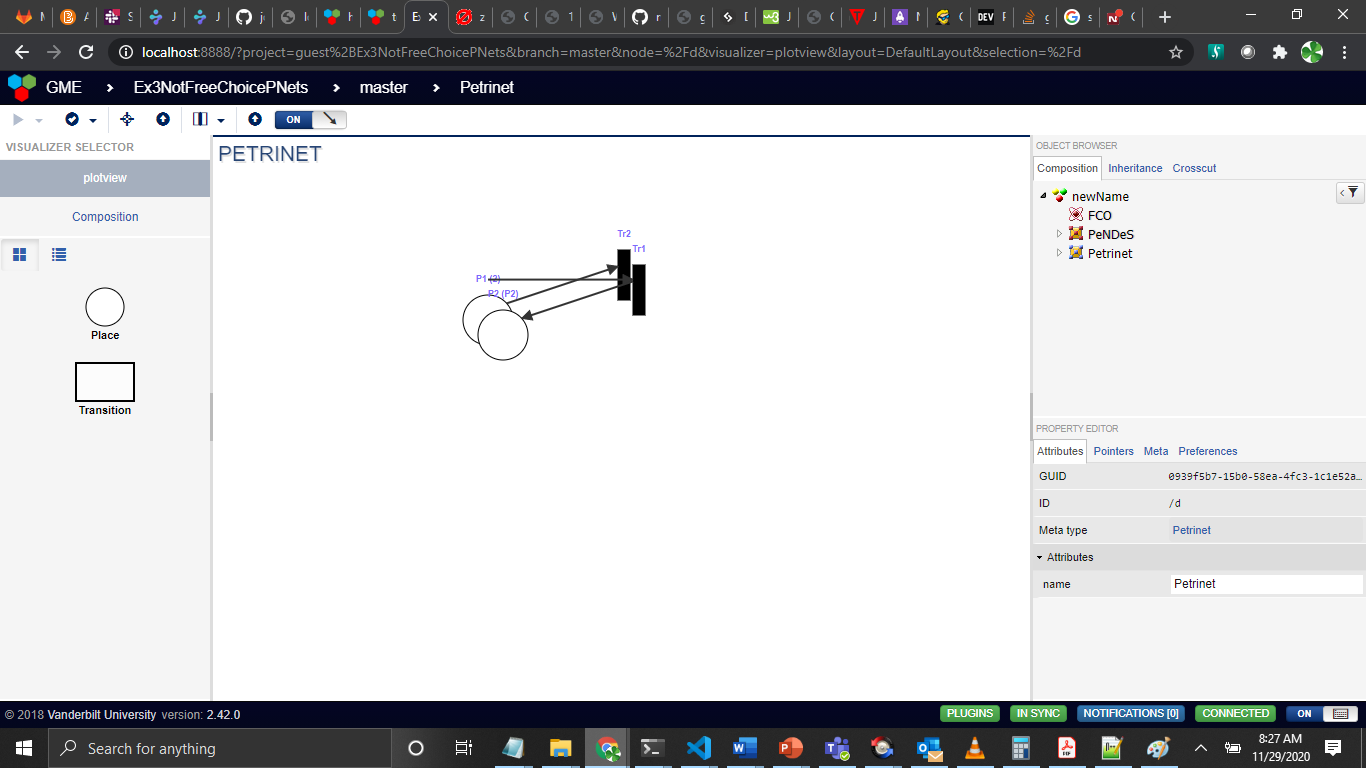
Note : After disentanglement of elements

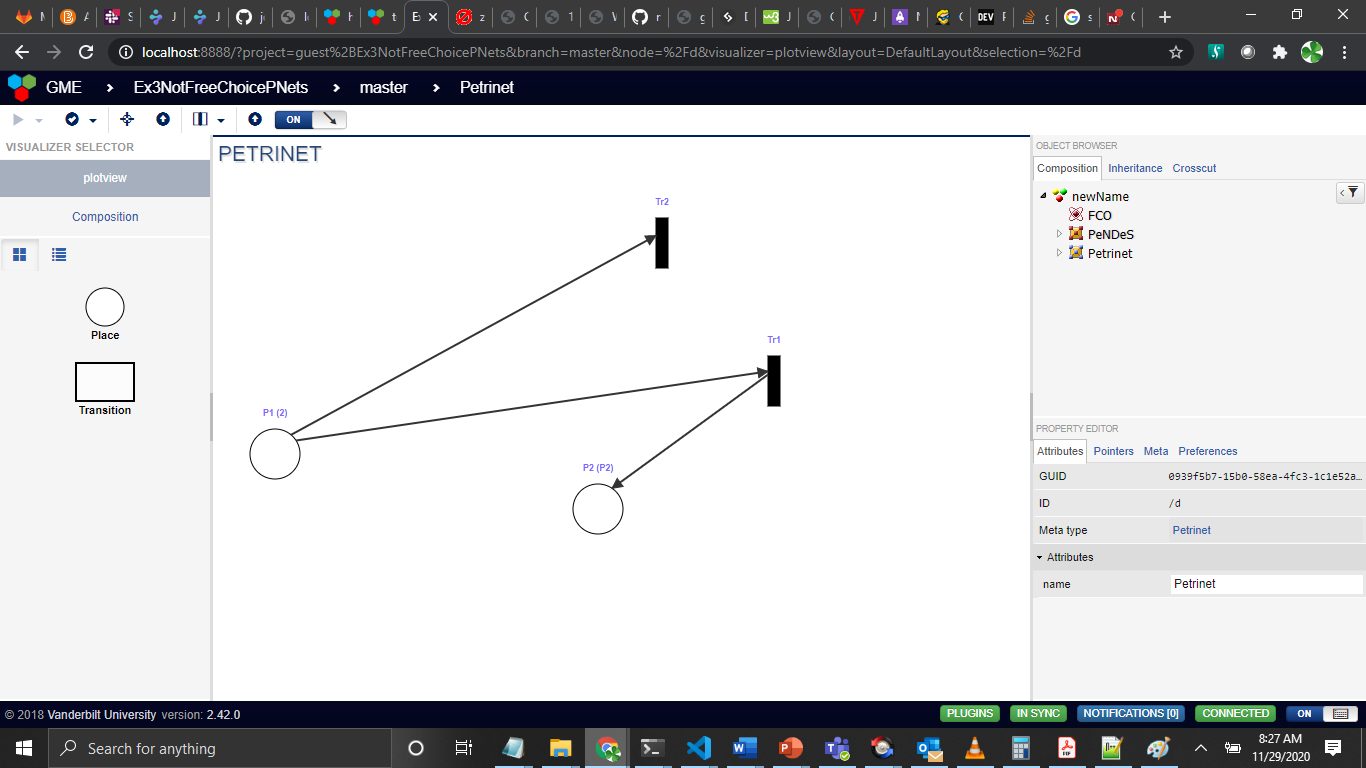
3.Not a FreeChoice Petrinet:











Note : After disentanglements of elements