How to import Mesh disease classification records into database

Description:

Mesh terms are the medical classifications and categories of descriptors in a hierarchy structure. For more information please refer to official National Library of Medicine website: (https://www.nlm.nih.gov/)

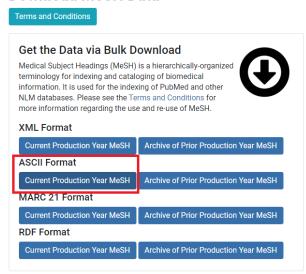
Import script description:

The provided script inventories all available mesh IDs in ChemBL database and once all mesh IDs are found, the script finds the corresponding disease classification in the downloaded MeshData file and persists disease classification back to database

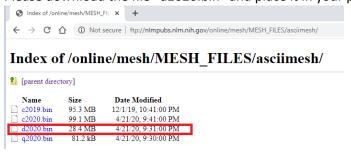
How and where to Download MeSH Data:

- 1. Please navigate to following URL
 - https://www.nlm.nih.gov/databases/download/mesh.html
- 2. Please click on current Production year under ASCII Format.

Download MeSH Data



3. Please download the file "d2020.bin" and place it in your preferred folder



How to run the code:

Pre-installation requirement:

The following libraries are required to run the import script "mesh_term_import_script.py"

Please run the following commands one by one to ensure the libraries are installed, if planning to run this from parent project folder, requirement.txt includes these libraries.

```
pip install numbers
pip install pandas
pip install SQLAlchemy
pip install pylint-flask-sqlalchemy
pip install re2
```

Database credentials:

open mesh term import script.py file and provide database credential as following:

```
DATABASE_URL = "postgresql://YOUR_USERNAME:YOUR_PASSWORD@DB_URL:5432/drugdata"
```

Run the script:

- Navigate the folder that mesh_term_import_script.py exist and ensure the source file "d2020.bin" exist.
- Run the script by running: python mesh term import script.py

C:\Development\School\CSCI-E 599\M3\code_4_22_2020\import_script_doc\import_scripts\mesh>python mesh_term_import_script.py script finished inserting records into database