# CLS variable search tool (dev) folders

## CLS variable search tool (dev) main folder

The main folder for the CLS variable search tool is as below. This folder contains:

* readme documentation (this file)
* syntax to run the CLS variable search tool (dev)
* Python syntax files:
  + **cls\_variable\_search\_flask.py**
    - Runs the CLS variable search Flask application (run in Anaconda Prompt)
    - Reads the ‘\_list’ csv files created by Python syntax cls\_variable\_search\_create\_csv\_files.py and Excel file ‘topic\_list.xlsx’ and creates Python dictionaries which are sent to the ‘‘cls\_variable\_search\_index.html’ HTML file (in templates folder below) to create drop down select lists
    - Reads the ‘metadata\_datatables.csv’ file generated by Python syntax cls\_variable\_search\_create\_csv\_files.py and creates a Pandas dataframe to be queried as specified by the filters set in the CLS variable search tool.
    - Sends the query result rows as a JSON dictionary ’my\_table’ to the ‘cls\_variable\_search\_index.html’ HTML file to be displayed by DataTables.
  + **cls\_variable\_search\_create\_csv\_files.py**
    - to be run each time the metadata data dictionary changes and is copied across from the Data Safe Haven to the CLS variable tool folders
    - Ingests the metadata data dictionary and creates csv files as a basis for a Pandas dataframe and dropdown lists used in the Flask syntax file ‘cls\_variable\_search\_flask.py’.
    - NOTE in production mode this file may be run on the data safe haven and the files copied across to the server hosting the CLS variable search webpage

## CLS variable search tool (dev) resources folder

The resources folder for the CLS variable search tool is as below.

This folder contains:

* Excel files ‘metadata\_datadict\_all.xlsx’ (output from the metadata database and copied over from the Data Safe Haven) and ‘topic\_list.xlsx’ (containing the topics and subtopic details as used in Closer Discovery). The topic\_list.xlsx file may need updating periodically..
* CSV files created by Python syntax ‘cls\_variable\_search\_create\_csv\_files.py’ in the main folder as above.

## CLS variable search tool (dev) templates folder

The templates folder for the CLS variable search tool is as below.

This folder contains:

* HTML files:
  + ‘cls\_variable\_search\_index.html’
    - Called by the ‘cls\_variable\_search\_flask.py’ Flask application. Structures the content of the CLS variable search webpage and controls how DataTables presents the metadata.
    - Reads in the ‘\_list’ JSON dictionaries to create the filters drop down selection boxes.
    - Sends the filters selection results to the ‘cls\_variable\_search\_flask.py’ Flask application
    - Reads in the filter results ‘my\_table’ JSON dictionary generated by the ‘cls\_variable\_search\_flask.py’ Flask application and displays in DataTables.

NOTE new html files will be added to this folder for the CLS metadata guide and the CLS metadata download webpages

## CLS variable search tool (dev) static folder

The static folder for the CLS variable search tool is as below.

This folder contains CSS stylesheet files, JavaScript files and font files used in the ‘cls\_variable\_search\_index.html’ HTML file in the templates folder above.