LipPy 4.0 API

Any lab can use this API

file_directory_parser

filters

isotopic_corrections

molecules_parser

database

⋮

static_data
(contains data of interest depends on the user)

LipPy 4.0 Main
(Desktop)

+ API take a more modular approach leads to easier maintenance

+ Utilizing pandas/numpy libraries (in memory vectorization) and avoiding writing loop in python will lead to MUCH better performance.

+ Cut code base. Should reduce at least half number LOC.

+ LipPy 3.2 currently has 30k lines of code.

+ Less dependencies leads to less bug and less error prone

+ When bugs are found, easier to track down

+ Easier to add/extend functionalities

+ Each module can be developed independently without worrying changes will break other modules

+ Modules are designed to be generic => data and instrument independent

+ The only thing that is custom build to fit our data/instrument is "LipPy 4.0 Main"