in: browse, search, user data

out: formatted
outputs/results/

Web App / UI

function: receive and parse input; request data from service layer; display data received tools: python flask/bokeh/plotly; html; CSS; javascript

errors

in: input from UI
out: required
output; errors

Service Layer

function: use adequate obj in data access; process data into required output; pass data to UI tools: python pandas/matplotlib/ seaborn/bokeh

in: input from SLout: required data

Data Access

function: represent DB tables as python objects; obtain data requested; return needed attributes tools: python sglalchemy

Database

relational SQLite DB; data stored in db file Data Import

python scripts designed to obtain and parse data, and populate the DB using the classes setup in DA layer