



Service Layer

Data Access

Database

upload.html

results.html

Crunch route.py

userdata\_display.py

user\_data\_crunch.py

plotting.py

ud\_db\_queries.py

dbsessions.py

sqlalchemy\_declarative.py

db\_class\_function.py

PhosphoQuest.db (SQLite3)

User upload file submitted

Invalid file submitted render error message

Render results template - Pass display variables

Call functions

Call functions

Call functions

Pass analysis result variables

Pass display variables

Call functions

Pass query result variables

Call function

Pass dbsession object

Call function

Pass dbtable objects

Call function

Pass db attributes

SQL query results

SQL query