Modules dependecies

tkinter

controller

MainWindow

views

main\_window

utils

models

sqlalchemy

db

engine

Base

Session

folders

modules

methods

Entity Relationship Diagrams

project\_id

project\_name

project\_description

**projects**

accession\_code

project\_id

omics\_type

repository\_name

**omics**

**0..\***\*

**1..1**

**projects**

project\_id [integer] serial number that increase each time a new project is submitted **PRIMARY KEY**

project\_name [string]

project\_description [string] generic description of the project

**omics**

accession\_code [string] the accession code generated by the repository where the specific

omics data have been uploded **PRIMARY KEY**

project\_id [integer] serial number that increase each time a new project is submitted **FOREING KEY**

omics\_type [string] proteomic, metabolomic, lipodomic

repository\_name [string] PRIDE, MetaboLight, ZENODO

[*https://en.wikipedia.org/wiki/Class\_diagram*](https://en.wikipedia.org/wiki/Class_diagram)

Search

There are three searching fields available for different case scenarios:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Field | Input Provided | | | | | | | | |
| Project\_id |  |  |  |  |  |  |  |  |  |
| Description |  |  |  |  |  |  |  |  |  |
| Repositories |  |  |  |  |  |  |  |  |  |

**Data Management With Python, SQLite, and SQLAlchemy**

https://realpython.com/python-sqlite-sqlalchemy/#working-with-sqlalchemy-and-python-objects