Cloud Storage (S3, NCBI-SRA) stores large data

Storage Layer

SQL Database stores metadata, project structure

Database Layer

Django Web App to provide Interface and API

App Layer

Sample Group

Represents a Project, like 'MetaSUB Paris'
- Stores samples
- Stores *group-level* results

Sample

Represents a Single Datum, e.g. one swab
- Can belong to multiple groups
- Stores *sample-level* results
- Stores *metadata*

Result

Represents actual data, like sequencing reads
- Tracks files in S3 (or similar)
- Stores a *version* number
- Stores related files (e.g. reads 1 & 2) together