

DATABASE STRUCTURE

PRIVATE

USER

String Name
enumerable Country
String Institution
bool Authenticated Doctor?

SUBMITTED_RECORDS

USER_ID
Date Submission date
SHA1 Password style (salted) hash of patient ID
case_study_ID

SHARED

CASE_STUDY

STRUCTURED DATA
in JSON format

WHAT THIS ARCHITECTURE ENABLES?

- I am doctor, I want to delete all my input
- I am doctor, I want to delete last week
- I am patient, I want to delete my case
- If I see shared data I cannot get back to patient/clinician
- Even administrator of database with full data access cannot see Patient ID

WHAT QUERIES WE WANT TO DATABASE TO RETURN?

- Get all cases with given age range and given underlying health condition

WHAT SEARCH CASE BACK END DOES?

- Takes the data selection from database, and then does analysis in Java or Python and outputs HTML (future: distributed execution of query + query cache)

SCALABLE ARCHITECTURE OF SOLUTION (not for demo)

