The DASSH Experience

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Our Database

Species and habitats - 5,000 surveys, 200,000 samples, 5 million occurrence records

Stored in PostgreSQL (with postGIS extension)

Geoserver instance on top exposes data
Our API

Built using Flask
Open and relatively simple web framework
Python expertise in the team
Connects to postgreSQL via psycopg2 library
Query endpoints implemented: position, radius, area, cube and corridor

Queries translated to postGIS functions e.g. Radius -> ST_Dwithin and utilizing existing date and depth fields

An Instance represents a survey – allows entire holdings to be queried together or queries to be restricted to individual surveys
Links

API:
https://dassh.ac.uk/edr

Swagger (interactive version):

Code:
https://gitserver.mba.ac.uk/external/data_team/edr