ISPyB and UIs

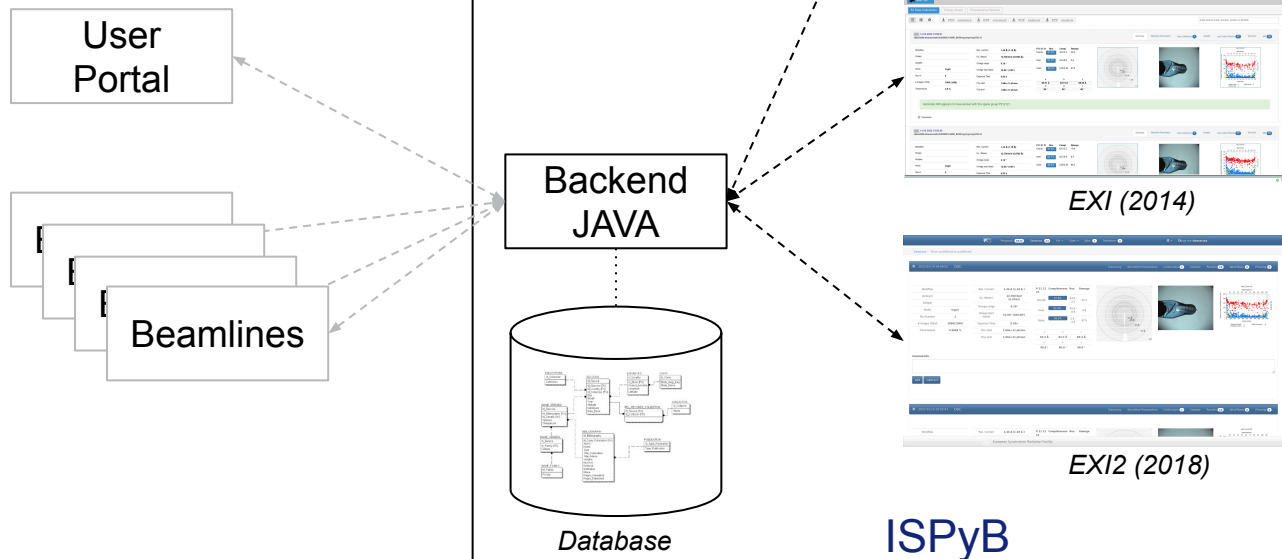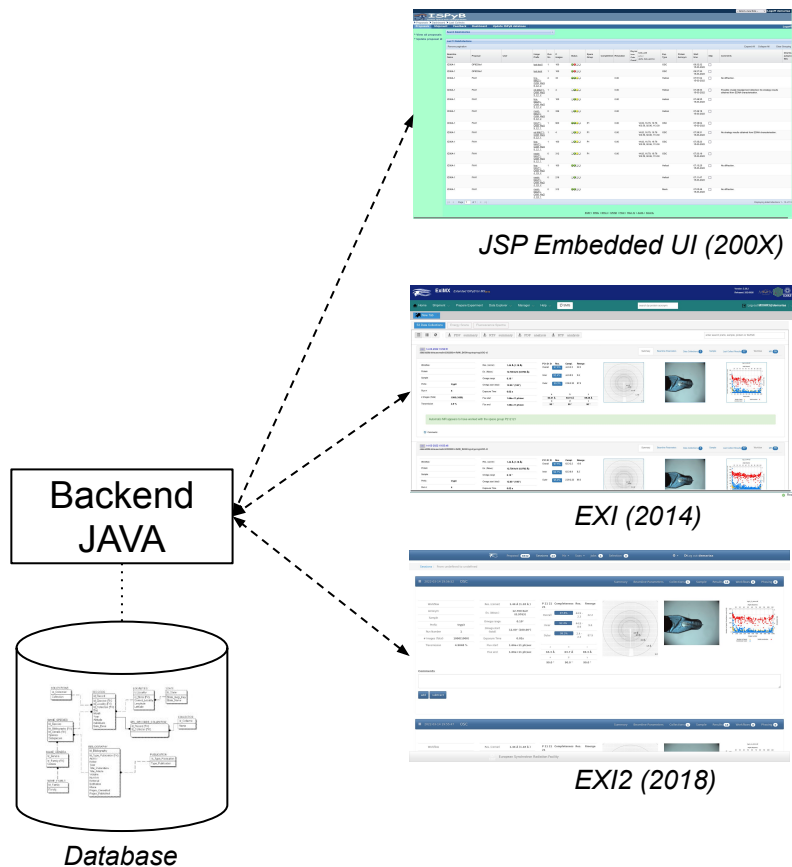**Alex de Maria**
Software Engineer
**ISPyB Developer**

Software overview

- ISPyB full software stack is composed by:
  - Database (MariaDB or MySQL)
  - Backend (JAVA)
  - User interfaces
    - JSP pages embedded *(deprecated)*
    - EXI - Javascript
    - EXI2 - React

JSP Embedded UI (200X)

EXI (2014)

EXI2 (2018)

User Portal

Beamlines

Backend JAVA

Database

ISPyB

Currently at the ESRF

JSP Embedded UI (200X)

EXI (2014)

Backend JAVA

Database

EXI2 (2018)

- JSP Embedded UI: https://ispyb.esrf.fr
  - Deprecated
  - Missing features/techniques

- EXI: https://exi.esrf.fr
  - In production
  - Frozen since…

- EXI2: https://exi2.esrf.fr
  - In production for EM/BioSAXS
  - Not finished and abandoned

JSP Embedded UI (200X)

EXI (2013)

EXI2 (2018)
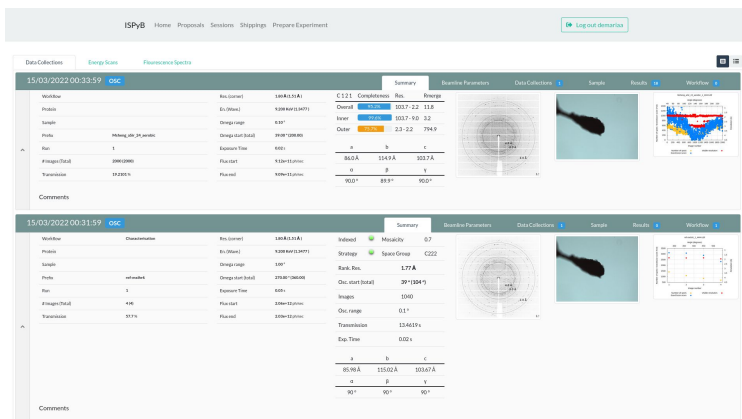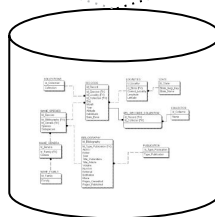
py-ispyb-ui? EXI3? ideas?

Backend PYTHON

Backend JAVA
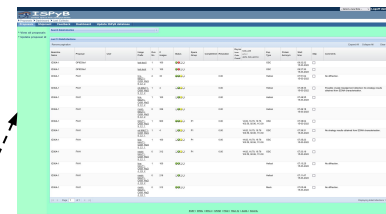
Database

- Latest REACT version
- Clean up of EXI2 code
    - Typescript
    - (almost) Latest REACT version
- Multiple authenticators
    - Integration with SSO
- Techniques
    - EM
    - MX (under development)
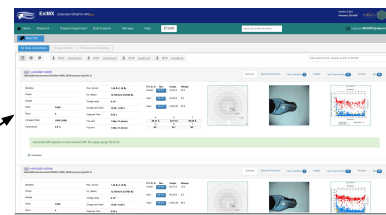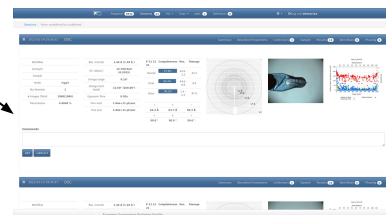
Under development

https://exi.esrf.fr
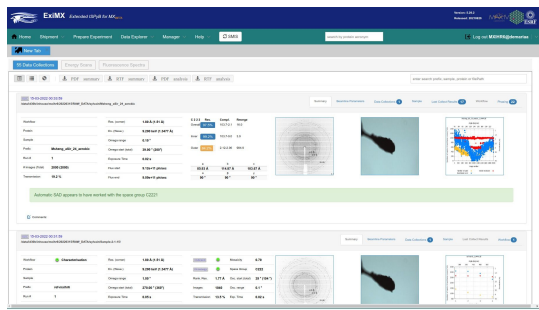
- Javascript
- Frozen

https://exi2.esrf.fr
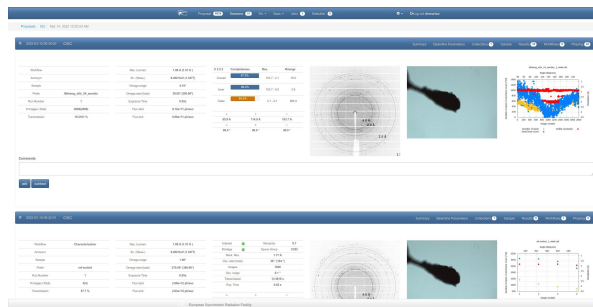
- React 16.8.6
- Javascript
- Bootstrap 3
- CRA 4.0.2
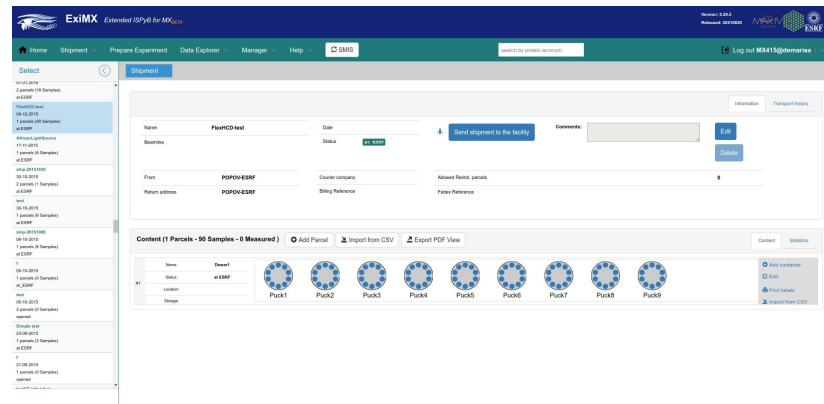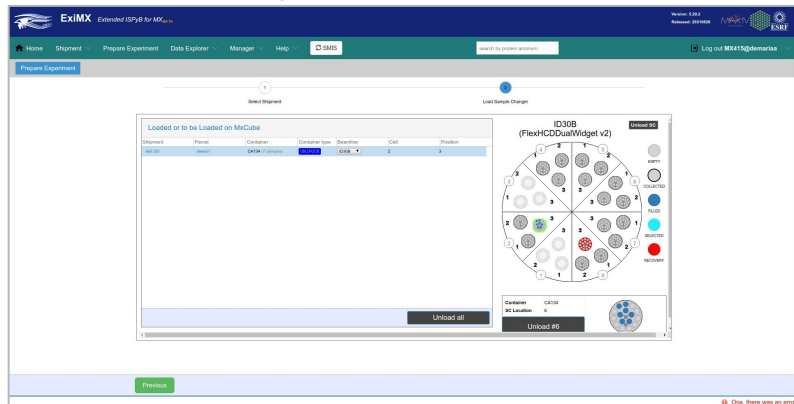- Frozen

https://py-ispyb.netlify.app/
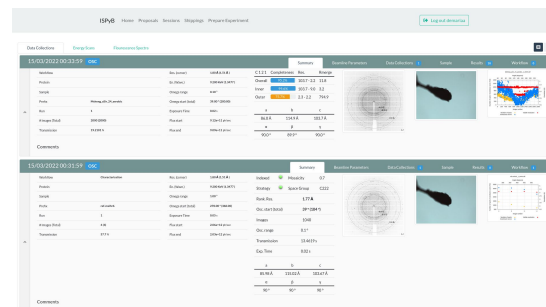
- React 17.0.2
- Typescript
- Bootstrap 5.1
- CRA 5.0.0
- Storybooks
- CI Documentation
- Testing (No chosen yet)

Under development

- Storybooks
  - https://ispyb.gitlab-pages.esrf.fr/py-ispyb-ui/storybook-static

- CI Documentation
  - https://ispyb.gitlab-pages.esrf.fr/py-ispyb-ui/doc/installation

- Deployed at
  - https://py-ispyb.netlify.app/

- Missing bits

Collaboration

- Do we want to collaborate?
- How?
- Who?
- When?

THANKS