

Work-flow Automation

Jenny Li, Metadata developer CLOSER

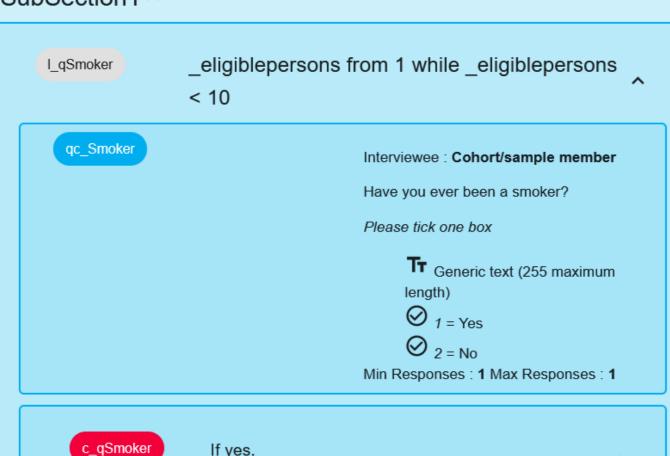




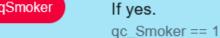


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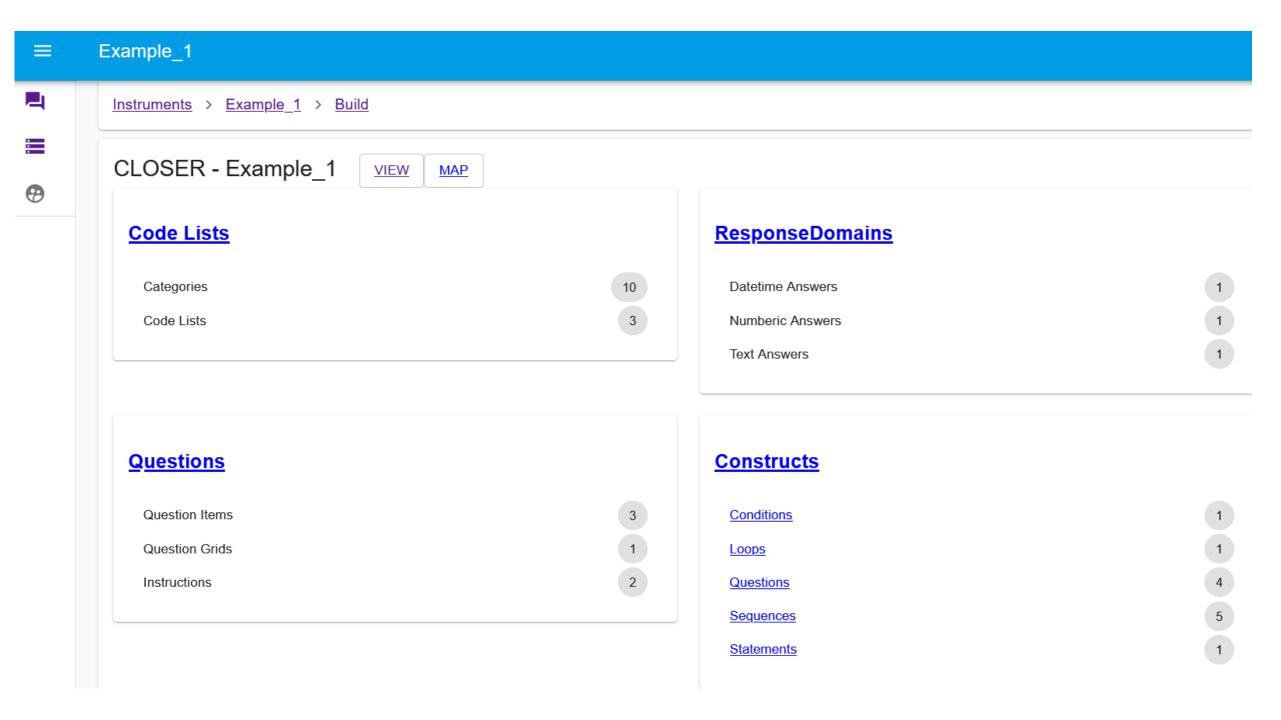


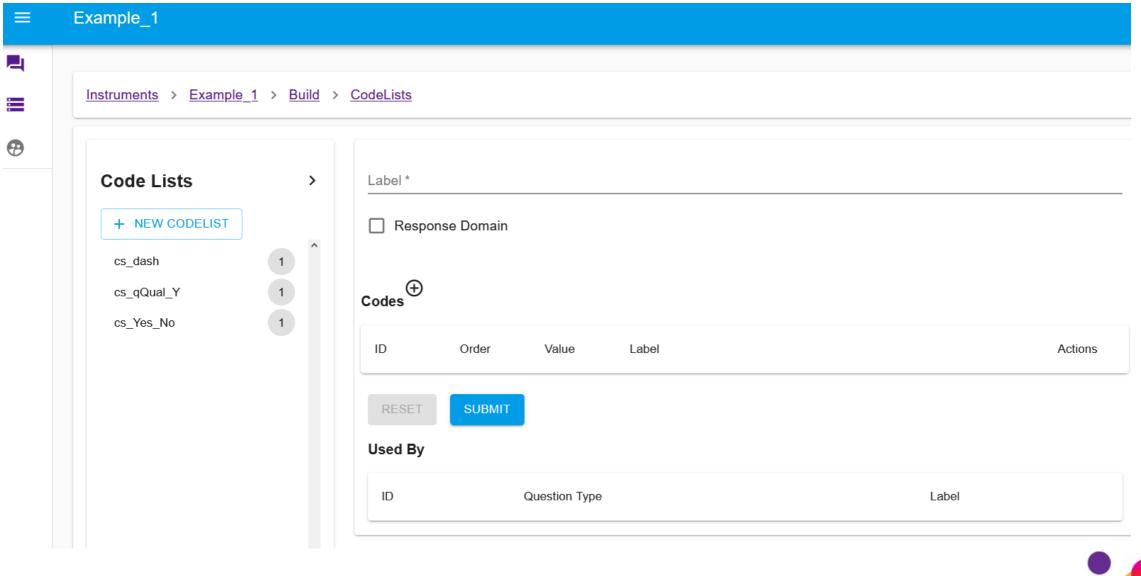


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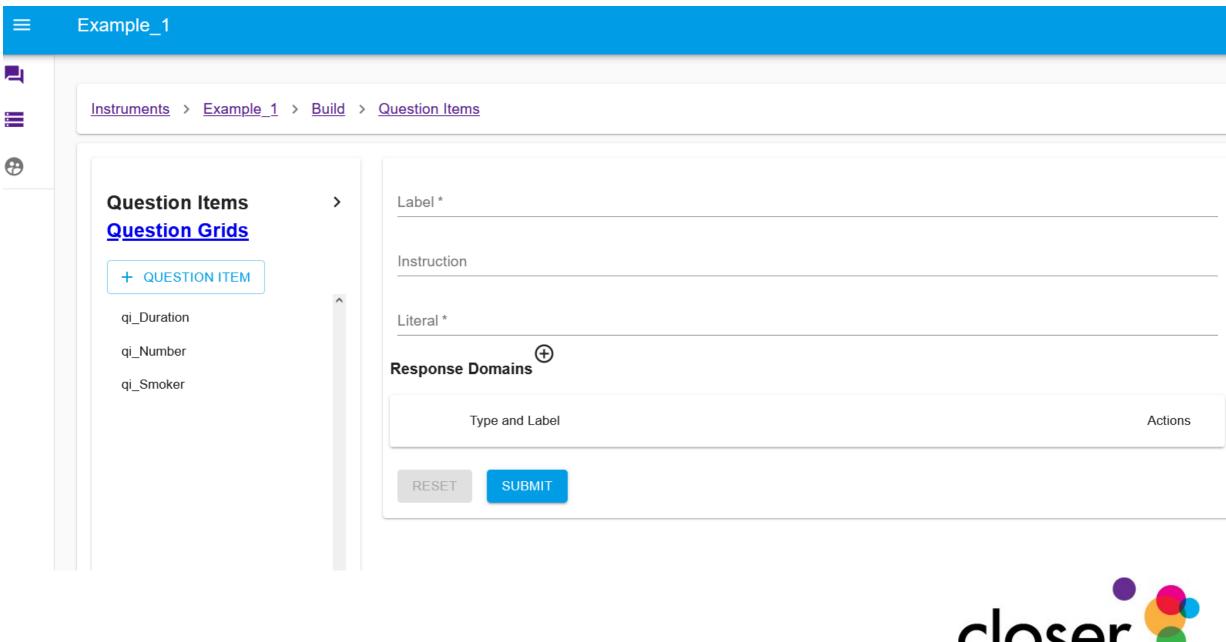
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Adding a new questionnaire to Archivist

- Manually
 - Line by line from a paper document
 - Interpretation of questionnaire structure
- Semi-automated (Gitlab pipeline)
 - Where content is available electronically
 - Parser to extract the bulk of the content
 - Goes into common structured tables
 - Inserted into Archivist



Gitlab Continuous Integration (CI)

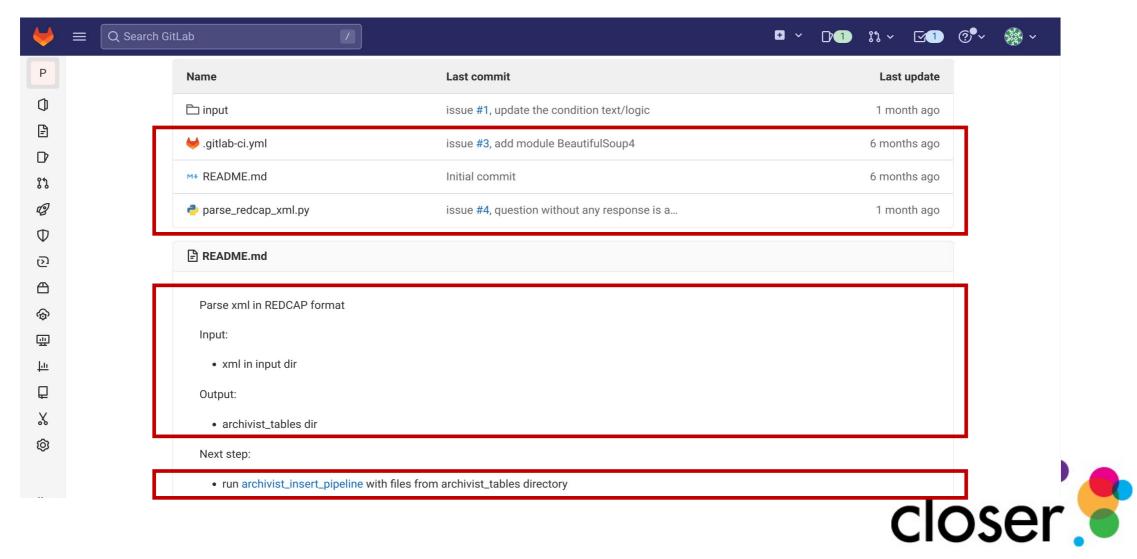
- Developer creates pipelines
- Any user can run the Gitlab pipeline,
 - Select the parser they need
 - Select the input file they need
 - Pipeline creates tables
 - Download tables
 - Run Insert into Archivist pipeline
 - Edit to tidy up the content in Archivist



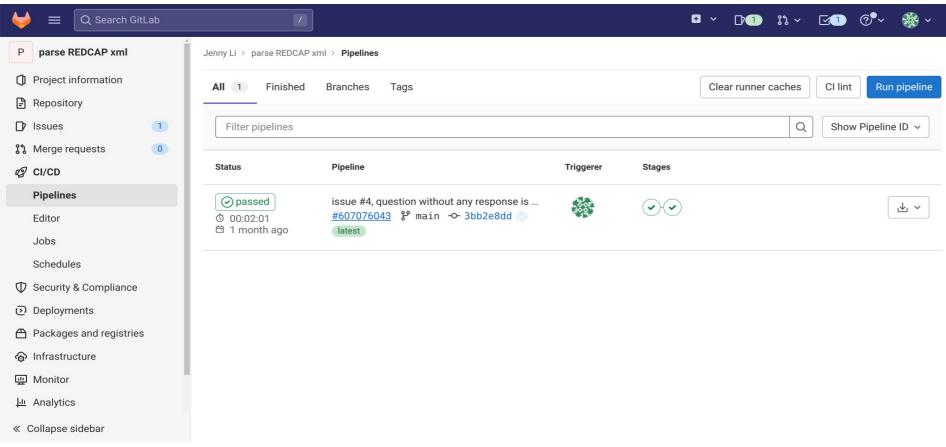
Gitlab Continuous Integration (CI)

- Extract text from source input
 - Input: pdf, xml
 - Using parser to create tables for each question element (for example: question items, codelists)
 - Output: individual tables for different parts of the questionnaire
- Archivist insert pipeline
 - User uploads tables into archivist database via automated
 Gitlab CI script

Gitlab Continuous Integration (CI)

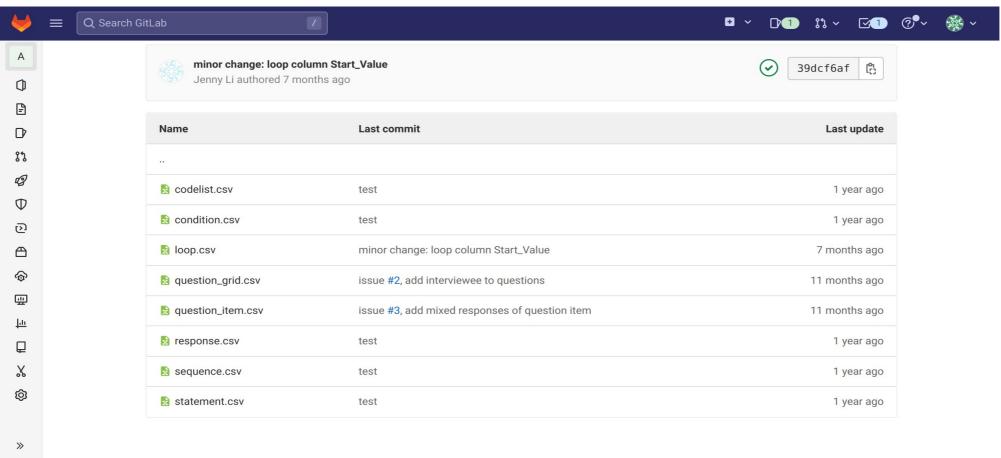


Gitlab – Parser validation





Gitlab – Parser output



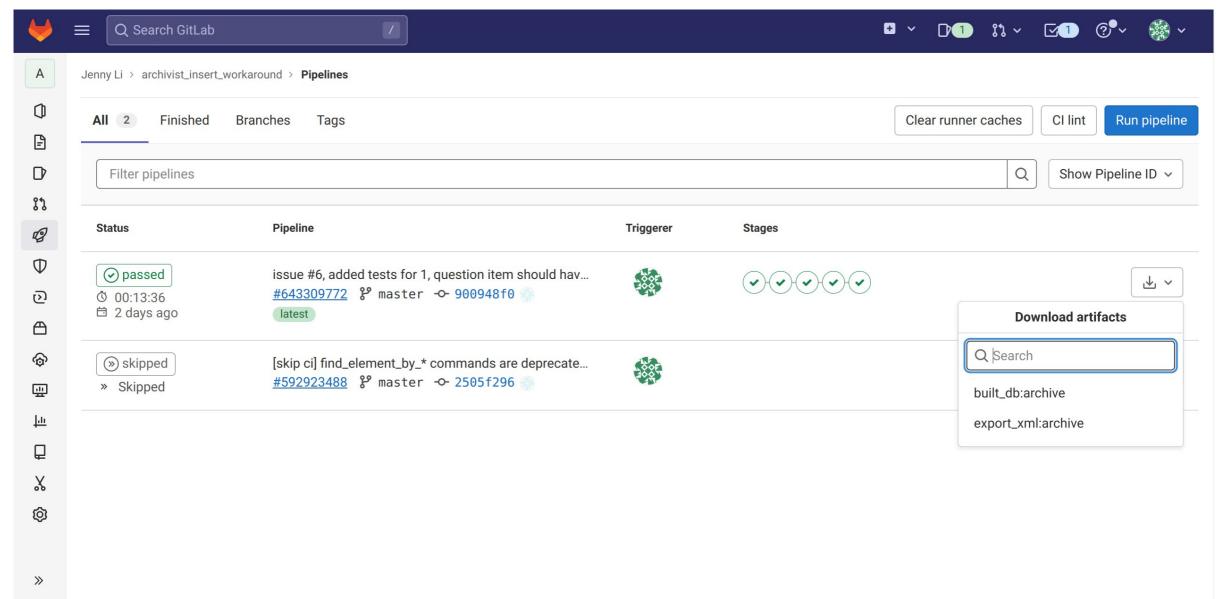


Archivist insert pipeline

- 1. Quality check input Tables
 - in the correct format
 - questions should have response
 - statements should have text
- 2. Build relationship tables
 - Insert input files into temp tables
 - Build relationship from temp tables
- 3. Allow user to interact with it in Archivist
- 4. Export a xml file of the questionnaire



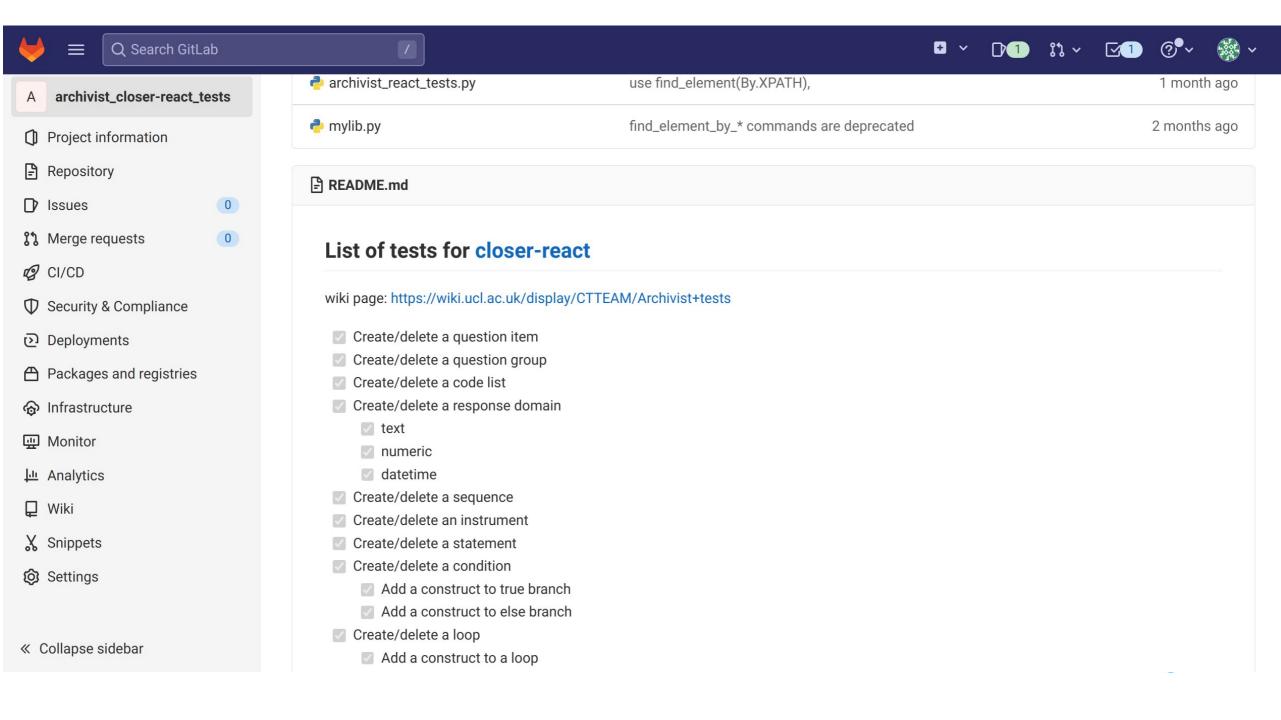
Gitlab – Insert pipeline output



Archivist codebase test automation

- Updates to the Archivist software can introduce new bugs
 - Instead of manually clicking buttons to test
 - Use Python library "Selenium" for controlling a web browser, to run the tests automatically





Summary

- Repetitive tasks can be better done by the computer
- Free up people's time for higher-level tasks
- Testing coverage improves over time
 - New tests to check the codebase can be added

