KOS

delivering iTelos as a web application

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KnowDive Seminars

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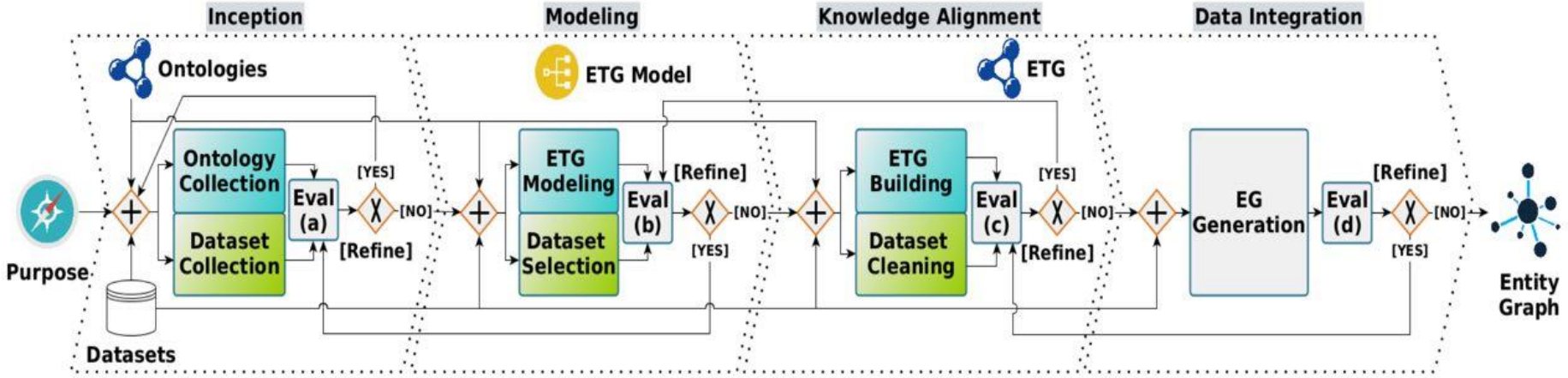
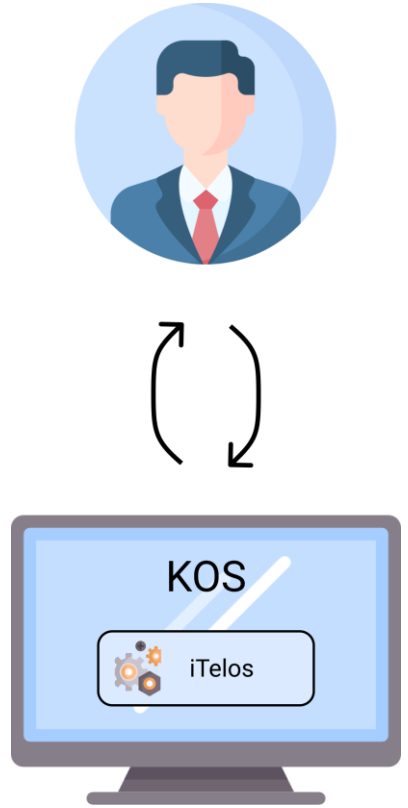
The iTelos methodology

- Knowledge graph engineering process specs
- Focus on
  - re-use of existing resources
  - shareability of output
- Defines
  - roles
  - resources
  - pipeline

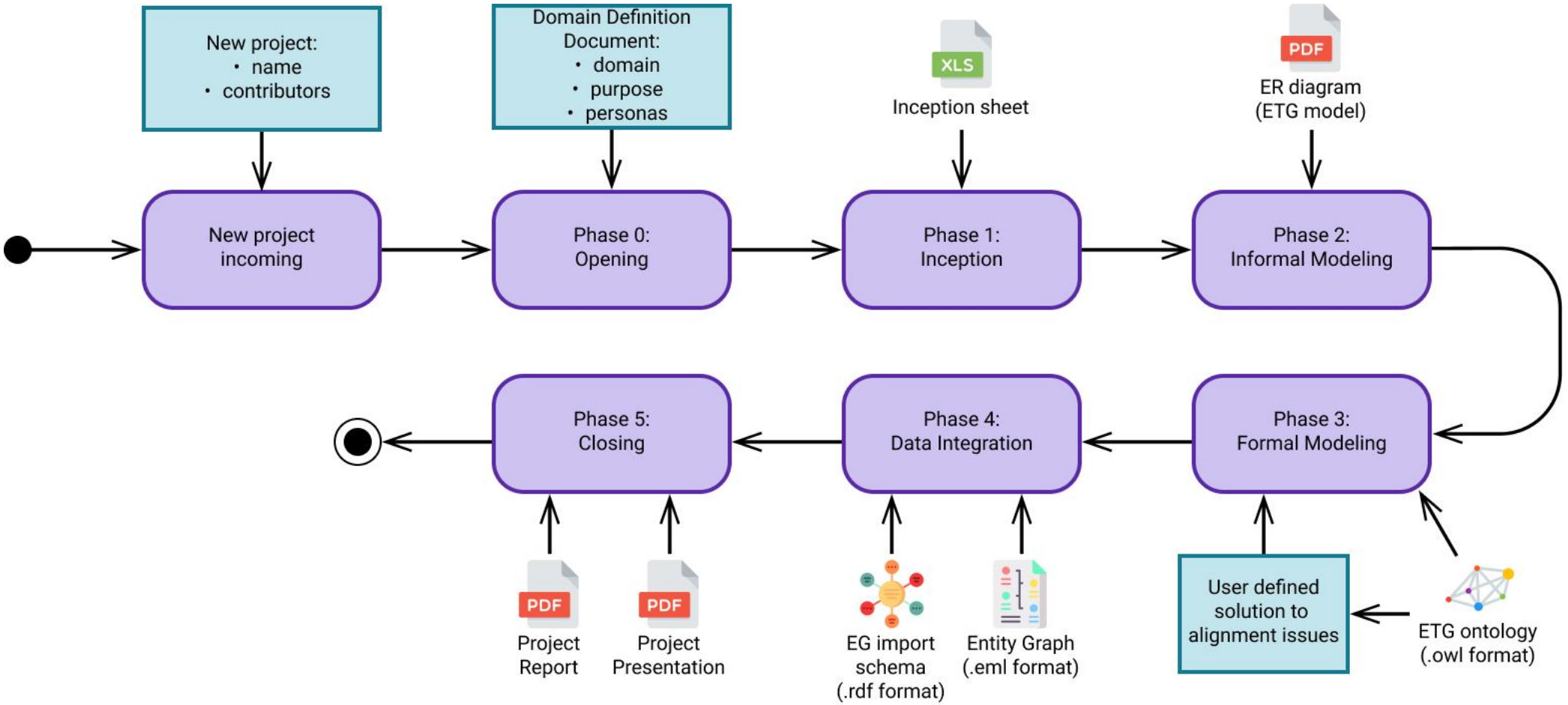


The KOS web application

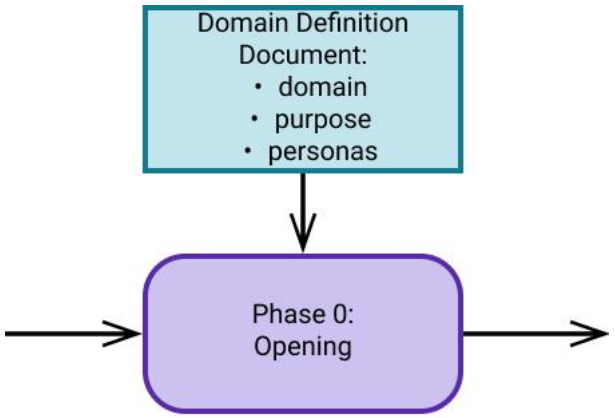
- GUI wrapper/hub for iTelos
- Allows user to define and execute *projects*
- A KOS project:
  - keeps track of state of process
  - helps user to collect required resources
  - provides alignment functionality
  - manages Github backbone repository



KOS project overview

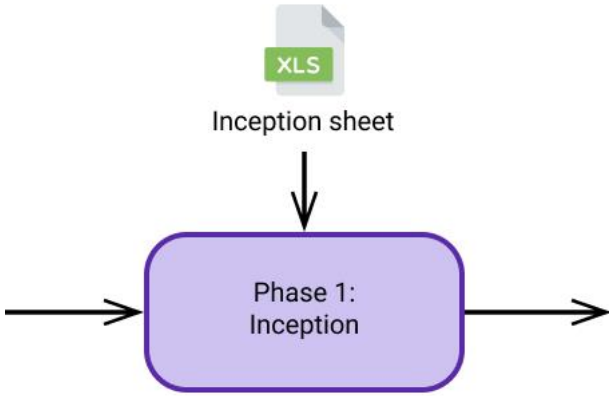


Phasewise input/outputs



0: Opening

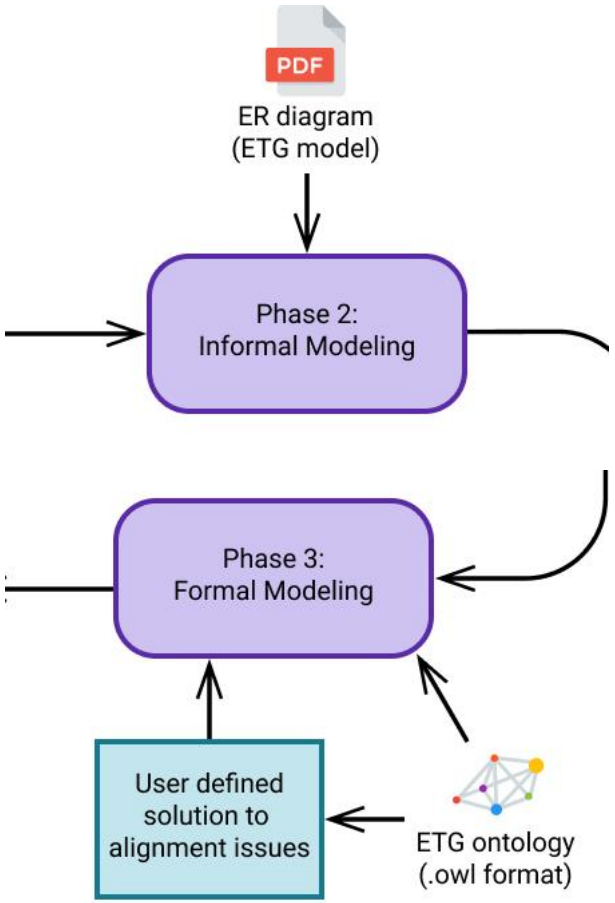
- domain definition document (.md)
  - domain, purpose, personas
- defined via GUI



1: Inception

- Inception sheet (.xlsx)
  - purpose formalization
- fill spreadsheet (MS Excel, Libreoffice Calc)

Phasewise input/outputs



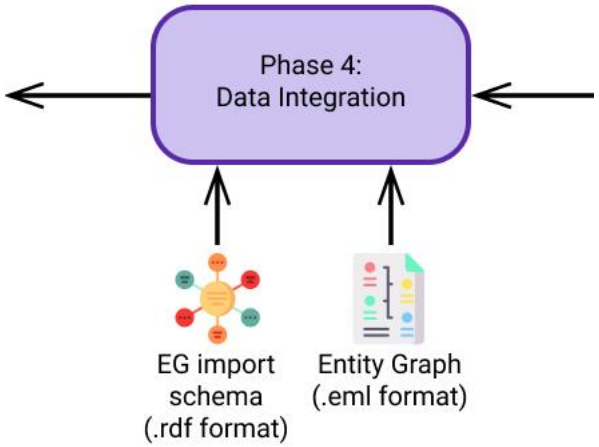
2: Informal modeling

- ETG model (.pdf/.jpg/.png)
  - first formalization of application ontology
- draw ER diagram (draw.io, Lucidchart, Figma)

3: Formal modeling

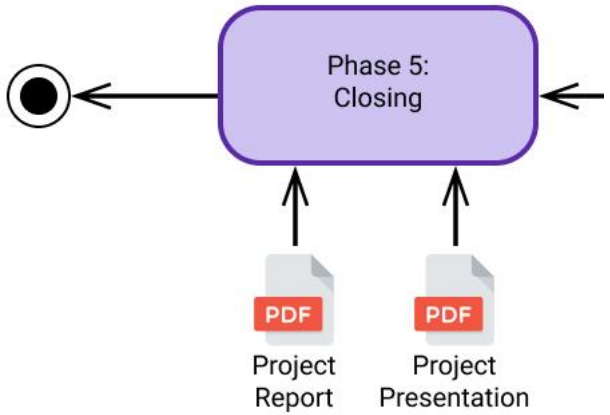
- final ontology (.owl)
  - some classes may require annotation
  - annotation is done via GUI tool
- Changelog (.xlsx)
- create ontology with Protégé

Phasewise input/outputs



4: Data integration

- final EG (.eml)
- RDF version of EG (.rdf)
- perform integration of ETG and dataset with Karmalinker

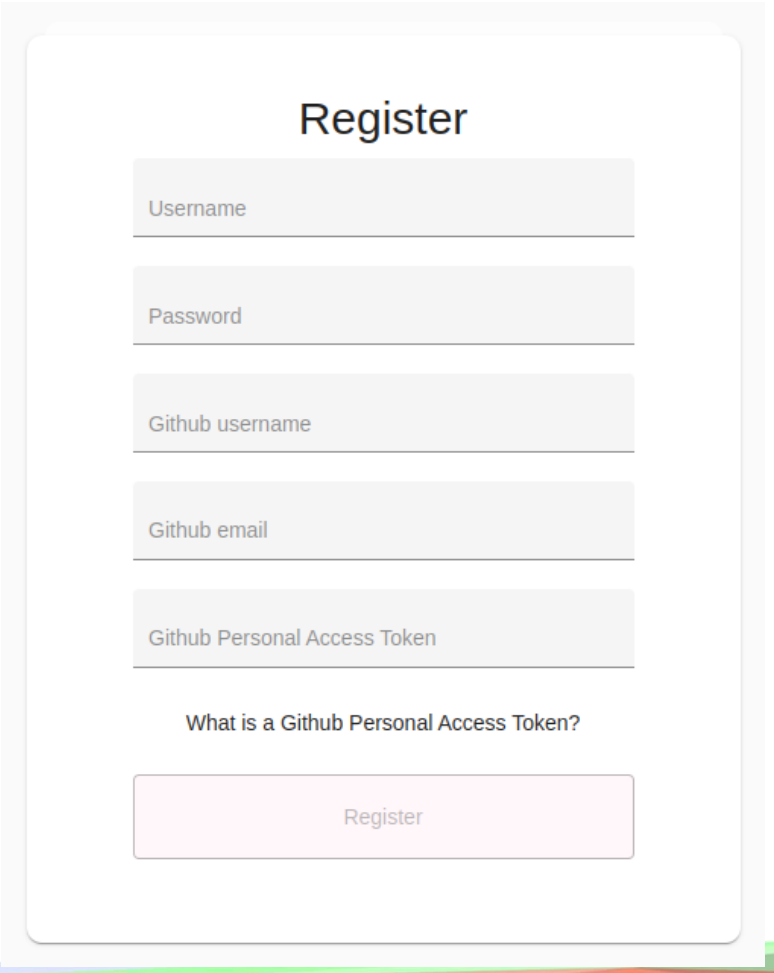


5: Closing

- project report (.pdf)
- project presentation (.pdf)
- any word processor/presentation program/LaTeX

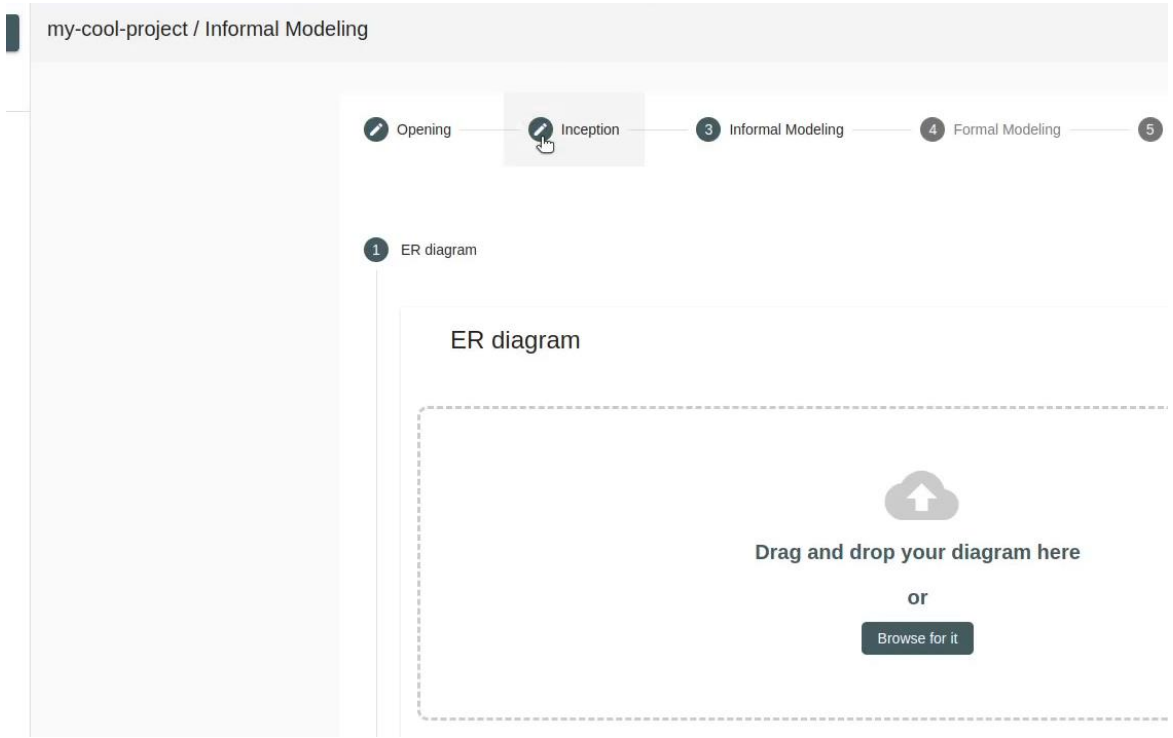
Appendix: register form

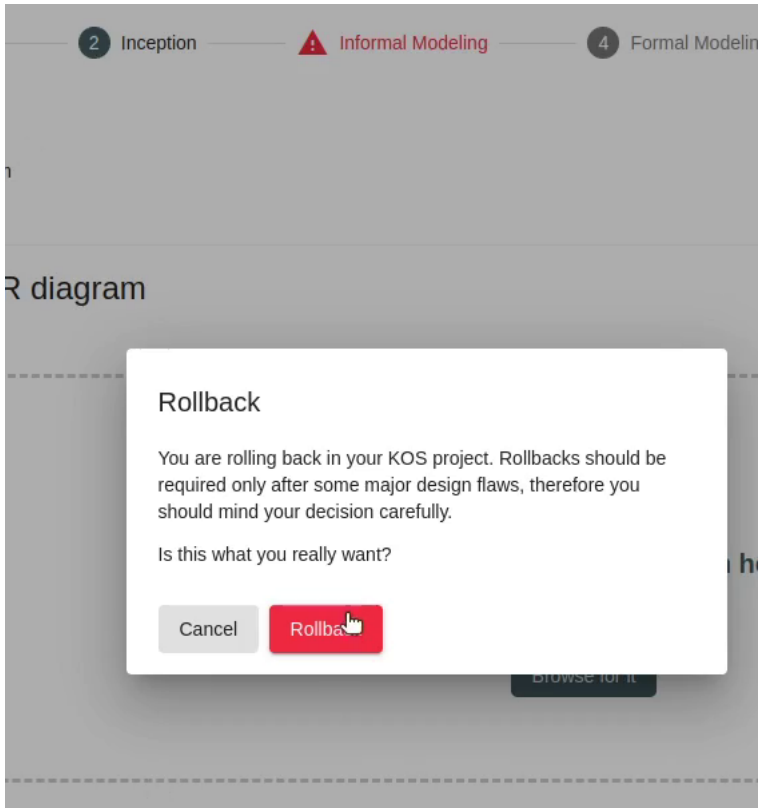
- username
- password
  - both used to identify user in the platform
- Github username
- Github email
  - username and email of a valid Github profile
- Github Personal Access Token
  - should be valid
  - select *repo* scope
  - see here



Appendix: rollback

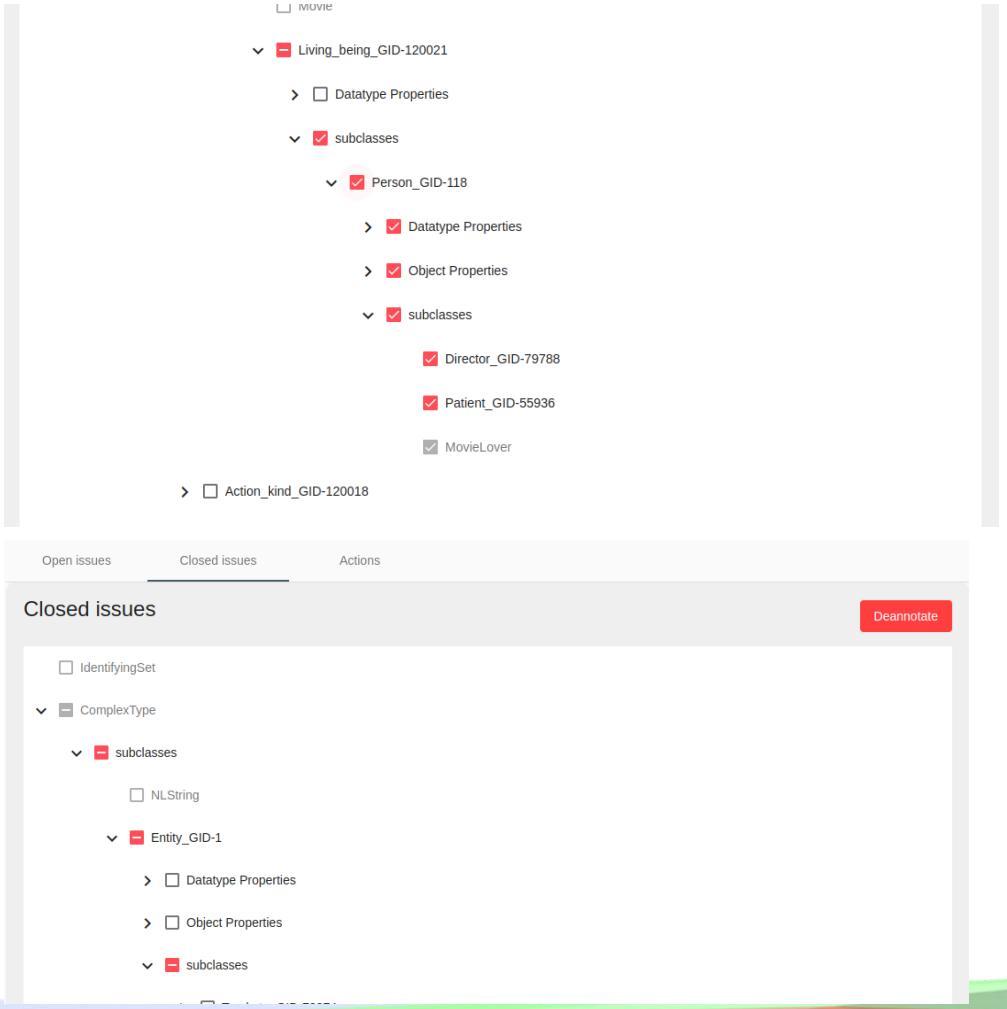
- Click on the target phase in the main stepper to rollback





Appendix: De-annotation

- Go to the *closed issues* tab
- expand ontology tree
- look up for the desired concept
- mark checkbox and hit *deannotate*
  - this will de-annotate properties and subclasses recursively



Thank you