

Institution/Team:

Trinity College Dublin, ADAPT Centre, Theme E ([Managing the Global Conversation](#))

Project Title:

Design of a Linked Data Interlinking Tool for the Library Domain.

Suitable for students who are studying in the following areas:

Computer Science, Web Development

Skills needed:

A strong set of general Web Development skills is needed for this internship such as:

HTML

CSS

Programming skills (Java)

JavaScript

Project Description:

The intern will be involved in the further design and development of a graphical user-interface (GUI) for NAISC – the **N**ovel **A**uthoritative **I**nterlinking of **S**chema and **C**oncepts. NAISC is a Linked Data interlinking approach which has been designed specifically for the library domain. The aim of NAISC is to make Linked Data interlinking more accessible to non-technical experts, specifically Information Professionals such as librarians, archivists and metadata cataloguers. This is being achieved by meeting a set of requirements distilled from data gathered from the library domain. These requirements include reducing the need to understand Linked Data technicalities, guiding Information Professionals through the process of Interlinking, and providing provenance data for the Interlinks created.

The role of the student & benefits gained from participation in this project:

The role of the intern will be to further develop the NAISC graphical user-interface (GUI) based on the requirements distilled from recently gathered user-testing data. See below for screenshots of the current GUI.

This project will provide the student with an opportunity to learn about:

- User Interface and User Interaction Design
- Information Architecture
- Linked Data (RDF, Graphs, Ontologies)
- Library and Information Science

Who will be working with you?

The intern will be working closely with PhD student, Lucy McKenna, as well as her supervisors Dr. Christophe Debruyne and Prof. Declan O’Sullivan.

Short description of the group:

The work will be conducted as part of the ADAPT Theme E consisting of experts in Linked Data, data ethics, data protection and data management.

Recommended reading material:

1. W3C Semantic Web - <https://www.w3.org/standards/semanticweb/>
2. User Centred Design - <https://www.usability.gov/what-and-why/user-centered-design.html>
3. McKenna, L., Debruyne, C., & O’Sullivan, D. (2018, May). Understanding the position of information professionals with regards to Linked Data: A survey of libraries, archives and museums. In *Proceedings of the 18th ACM/IEEE on Joint Conference on Digital Libraries* (pp. 7-16). ACM.
4. NAISC Demo - <https://www.scss.tcd.ie/~mckennl3/naisc/>

For further details on this project please contact:

Lucy McKenna – Email: lucy.mckenna@adaptcentre.ie

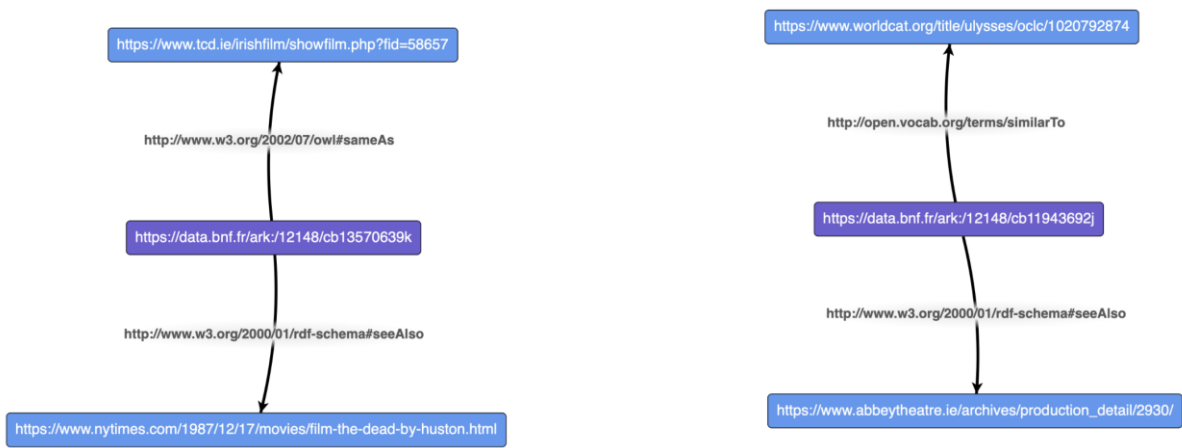
Additional Information:

Interlink Resources Guide

- Add Links to connect the Internal Primary Resource and its Related Secondary Resources.
- Add a Link by clicking on the + Link button.

Primary Resource	Interlink	Status
<p>Label: The Dead</p> <p>URI: https://data.bnf.fr/ark:/12148/cb122041272</p> <p>Description: BnF record for the short story "The Dead", the final story in the 1914 collection Dubliners by James Joyce.</p>	<p>Using the dropdown list below, select the term which broadly describes how the resources are related.</p> <p>How are the resources related?</p> <p>Closely Related To</p> <p>When two things share many, but not all, properties. The resources are not identical, but have some similar properties.</p> <p>From the list below, select a specific Link Term to interlink the resources. Your selection could be based on a number of factors, including the definition of the Link Term and your preferred ontology.</p> <p>ov:similarTo</p> <p>Link Term Definition:</p> <p>The OpenVocab property, ov:similarTo, indicates that two things are not exactly the same but are similar to a certain extent. It is thought of being used where owl:sameAs is too strong but rdfs:seeAlso is too loose. OpenVocab is a community maintained vocabulary intended for use on the</p>	
<p>Secondary Resource</p> <p>Label: Joyce's Dublin</p> <p>URI: https://digital.ucd.ie/view/ivrla:33600</p> <p>Description: A selection of podcasts, interviews, and contextual material (held in UCD repositories and elsewhere) in relation to James Joyce's short story "The Dead".</p>		

Current NAISC GUI



RDF Graph output from NAISC