

Workshop

Designing your Linked Data

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Example

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Scenario



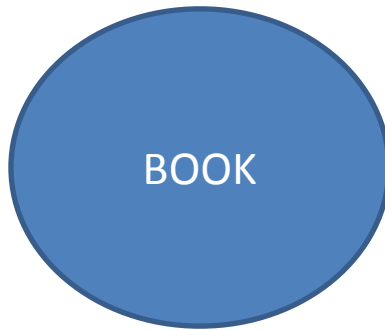
- **Context:** bookshop that wants to sell on-line, providing information on the books in the Web of Data;
- **Content:** Old books of biology;
- **Users:** Collectors, Scientific researchers, professors,

Funtional Requirements



- Search by title;
- Search by author;
- Search by a range of publication dates;
- Inform users about the book conservation status.

Domain Model



Vocabulary Alignment



Name	Namespace	Adopted prefix
DCTERMS	http://purl.org/dc/terms/	dct
Example	http://example.org	ex
FOAF	http://xmlns.com/foaf/0.1/	foaf

Constraints Matrix (simplified)



Entity	BOOK				
Name	Property	Description	Encoding Schema	Min	Max
Title	dct:title	Title of the book	Text	1	1
Date	dct:date	Edition date of the book	W3CDTF	1	1
Wikipedia page	ex:wikipedia	Wikipedia page of the book	Wikipedia URI	0	1
Subject	dct:subject	Subject of the book	URI for AGROVOC	1	many
Author	dct:autor		URI for AUTHOR	1	many
Book Status	ex: status	Conservation status of the book		1	1

Constraints Matrix (simplified)



Entity	AUTHOR				
Name	Property	Description	Codification Scheme	Min	Max
Name	foaf:name	Name of the author	string	1	many
Email	foaf:email	Email of the autor	mailto	0	many
Identifier	dct:identifier	Identifier of the author	URI of the autor	1	1