Submissions:Bag

From Odp

If you are a member of quality committee please visit the

evaluation section (http://ontologydesignpatterns.org/wiki/index.php?title=Submissions:Bag&&

If you are author of this proposal or you want to contribute to this pattern's review, you can:



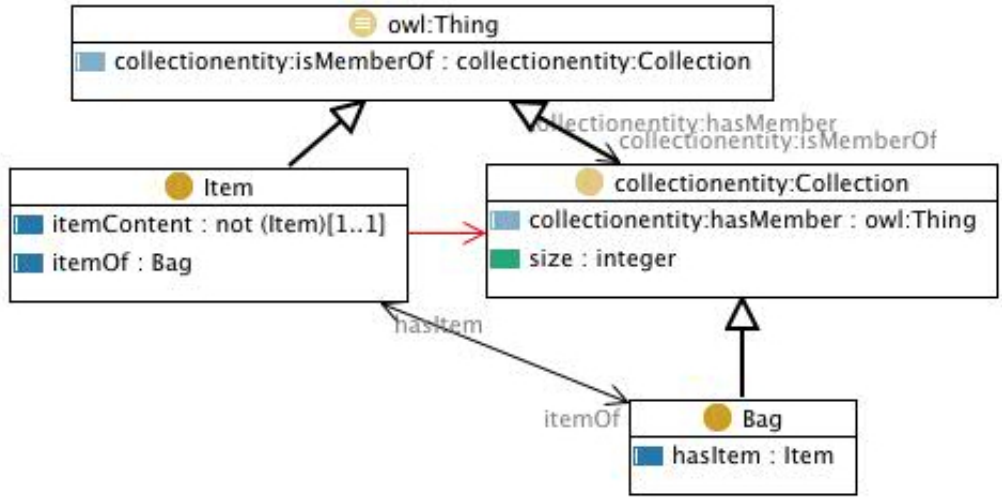
- ask for a review (http://ontologydesignpatterns.org/wiki/index.php?title=Submissions:Bag&&action=evaluation)
- post your open review
- specify if this revision takes in account any of the review(s) (http://ontologydesignpatterns.org/wiki/Special:EditData/Takes_in_account_Review_Form
- add a new scenario for Bag

In general, it could be useful to visit the evaluation section (http://ontologydesignpatterns.org/wi title=Submissions:Bag&&action=evaluation) to have information about the evaluation process c

Current revision ID: **10367**

Graphical representation

Diagram



General description

Name:	Bag
Submitted by:	EvaBlomqvist
Also Known As:	
Intent:	To model bags of items (elements). The Bag is characterized by a collection that can have multiple copies of each object.
Domains:	General, Parts and Collections
Competency Questions:	▪ What bag is this item an element of? ▪ What is the size of this bag? ▪ What resource does this item refer to? ▪ What are the items contained in this bag?
Solution description:	The Bag is characterized by a collection that can have multiple copies of each object. This is performed through the Item entity. The Item is linking exactly one resource through the relationship itemContent.
Reusable OWL Building Block:	http://www.ontologydesignpatterns.org/cp/owl/bag.owl (162)
Consequences:	
Scenarios:	
Known Uses:	
Web References:	
Other References:	

Examples (OWL files):	
Extracted From:	▪ http://swan.mindinformatics.org/ontologies/1.2/collections.owl
Reengineered From:	▪ http://swan.mindinformatics.org/ontologies/1.2/collections.owl
Has Components:	▪ Submissions:CollectionEntity
Specialization Of:	
Related CPs:	▪ Submissions:List

Elements

*The **Bag** Content OP locally defines the following ontology elements:*

Item (owl:Class) Item - Element belonging to a Bag *Item page*

itemContent (owl:ObjectProperty) itemContent - The link to the actual resource to which the item refers. *itemContent page*

Bag (owl:Class) Bag - Collection that can have a number of copies of each object *Bag page*

itemOf (owl:ObjectProperty) item of - The link from an item to the Bag where it is contained *itemOf page*

hasItem (owl:ObjectProperty) has item - The link to every item of the Bag *hasItem page*

size (owl:DatatypeProperty) size - The number of items belonging to a collection *size page*

Additional information

The Bag is characterized by a collection that can have multiple copies of each object. This is performed through the Item entity. The Item is linking exaclty one resource through the relationship itemContent.

The collections ontology (part of the SWAN ontologies) that this pattern is based on was created by Paolo Ciccarese - Massachusetts General Hospital/Harvard Medical School, and Marco Ocana - Balboa Systems Inc. The original ontologies, and related information, are available under a Creative Commons License (http://creativecommons.org/licenses/by/1.0/) .

Scenarios

Scenarios about Bag

No scenario is added to this Content OP.

Reviews

Reviews about Bag

There is no review about this proposal. This revision (revision ID **10367**) takes in account the reviews: none

Other info at evaluation tab (http://ontologydesignpatterns.org/wiki/index.php?title=Submissions:Bag&action=evaluation)

Modeling issues

Modeling issues about Bag

There is no Modeling issue related to this proposal.

References

Add a reference (http://ontologydesignpatterns.org/wiki/index.php?title=Odp:Add_reference&subject=Submissions%3ABag)

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Category: ProposedContentOP

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