

# Use Case 1.1 - Requirements - Build a virtual collection

[Planning](#) | [Description](#) | [Requirements](#) | [UI Mockup](#) | [Triples Examples](#) | [Queries Examples](#)

## Table of Contents

- [Major Dependencies](#)
- [Requirements List](#)
  - [Use Case 1.1 - Common Changes for ALL pages](#)
  - [Use Case 1.1 - Home page \(updates\)](#)
  - [Use Case 1.1 - Search Results page \(updates\)](#)
  - [Use Case 1.1 - Requirements - Work page \(updates\)](#)
  - [Use Case 1.1 - Requirements - My Virtual Collections page \(new\)](#)
  - [Use Case 1.1 - Requirements - New Virtual Collection dialog \(new\)](#)

## Major Dependencies

- [Infrastructure - Authentication, Private/Public Data, Roles, Ownership, Group Membership - Requirements](#)

## Requirements List

### Use Case 1.1 - Common Changes for ALL pages

Item	Overall Progress	Priority	Developer	Description	Dependencies	Comments
<b>External</b>						
			Lynette R. (Cornell)	Clone of CUL discovery & access website.	<ul style="list-style-type: none"> <li>• <b>External:</b> Determine where to push code that is specific to Cornell.</li> </ul>	Current work is a proof of concept (POC). It will not be added to the live discovery & access website. POC will be done in a cloned copy of discovery & access as a demonstration that will allow planning groups to understand the concepts and determine the best way to integrate with the live discovery & access system should the POC be deemed valuable.
<b>Infrastructure – NONE</b>						
<b>Model – NONE</b>						
<b>User Interface</b>						
			Lynette R. (Cornell)	Add link to My Virtual Collections in banner beside My Account.	<ul style="list-style-type: none"> <li>• <b>UI:</b> My Virtual Collections page exists. (<a href="#">Req</a> <a href="#">irements</a>   <a href="#">Mockup</a>)</li> <li>• <b>External:</b> Clone of CUL discovery &amp; access website.</li> </ul>	Link is in prototype. Requires design approval from D&A search UI team. May need to only show up for logged in library staff.

### Use Case 1.1 - Home page (updates)

[Mockup](#)

Item	Overall Progress	Priority	Developer	Description	Dependencies	Comments
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Infrastructure – Includes only Common Changes for ALL pages
Model – Includes only Common Changes for ALL pages
User Interface – Includes only Common Changes for ALL pages

### Use Case 1.1 - Search Results page (updates)

Mockup

Item	Overall Progress	Priority	Developer	Description	Dependencies	Comments
External						
			Lynette R. (Cornell)	Get info about items selected in search results using the existing discovery & access website selection functionality.		Need to implement caching.
Infrastructure – NONE						
Model – NONE						
User Interface						
			Lynette R. (Cornell)	Add combo box with ability to add selected resources to an existing or new virtual collection.	<ul style="list-style-type: none"> <li>• <b>Triplestore Model:</b> Get list of all personal virtual collections a specific user can modify from triplestore.</li> <li>• <b>UI:</b> My Virtual Collections page exists. (<a href="#">Requirements</a>   <a href="#">Mockup</a>)</li> <li>• <b>UI:</b> New Virtual Collection dialog exists. (<a href="#">Requirements</a>   <a href="#">Mockup</a>)</li> <li>• <b>External:</b> Get info about items selected in search results using the existing discovery &amp; access website selection functionality.</li> </ul>	Having the ability to create a new collection here may present some challenges since there are two types of collections, i.e. personal and library. See <a href="#">Use Case 1.2</a> for more info on library virtual collections.

### Use Case 1.1 - Requirements - Work page (updates)

Mockup

Item	Overall Progress	Priority	Developer	Description	Dependencies	Comments
External						
			Lynette R. (Cornell)	Get info about current item from catalog triplestore.	<ul style="list-style-type: none"> <li>• <b>Converter:</b> Triplestore populated with Cornell converted Marc data that is accessible via SOLR query to gather information required for display of work information in the list of items for a virtual collection.</li> </ul>	Need to implement caching
Infrastructure – NONE						
Model – NONE						
User Interface						

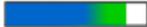
			Lynette R. (Cornell)	Add combo box with ability to add current resource to an existing or new virtual collection.	<ul style="list-style-type: none"> <li>• <b>Triplestore Model:</b> Get list of all personal virtual collections a specific user can modify from triplestore.</li> <li>• <b>UI:</b> My Virtual Collections page exists. (<a href="#">Requirements</a>   <a href="#">Mockup</a>)</li> <li>• <b>UI:</b> New Virtual Collection dialog exists. (<a href="#">Requirements</a>   <a href="#">Mockup</a>)</li> <li>• <b>External:</b> Get info about current item from catalog triplestore.</li> </ul>	Having the ability to create a new collection here may present some challenges since there are two types of collections, i.e. personal and library. See <a href="#">Use Case 1.2</a> for more info on library virtual collections.
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## Use Case 1.1 - Requirements - My Virtual Collections page (new)

### Mockup

Item	Overall Progress	Priority	Developer	Description	Dependencies	Comments
<b>External</b>						
<b>Infrastructure</b>						
			Lynette R. (Cornell)	Create ability to search only personal virtual collections that a specific user can modify.	<ul style="list-style-type: none"> <li>• <b>External:</b> Add virtual collection name and description to solr index searching. (<a href="#">Requirements</a>)</li> <li>• <b>External:</b> Add virtual collection name as a facet in solr index. (<a href="#">Requirements</a>)</li> </ul>	All virtual collections are public at this time.
		Low	Lynette R. (Cornell)	Create ability to search only the set of virtual collections watched by a specific user.	<ul style="list-style-type: none"> <li>• <b>External:</b> Add virtual collection name and description to solr index searching. (<a href="#">Requirements</a>)</li> <li>• <b>External:</b> Add virtual collection name as a facet in solr index. (<a href="#">Requirements</a>)</li> </ul>	
<b>Triplestore Model</b>						
		High	Lynette R. (Cornell)	Get list of all personal virtual collections a specific user can modify from triplestore. Include name, count of items, and visibility for each virtual collection.	<ul style="list-style-type: none"> <li>• <b>Infrastructure:</b> Authentication</li> <li>• <b>Infrastructure:</b> Ownership</li> <li>• <b>Triplestore Model:</b> Established relationship between list and an owner.</li> </ul>	Ontology: <a href="#">collections</a> (see list) Ontology: <b>How to represent the 'user' and the 'ownership' relationship?</b> Ontology: <a href="#">foaf</a> (see person) – use for 'user'?

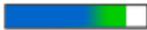
	Low	Lynette R. (Cornell)	Get list of all virtual collections a specific user is watching from triplestore. Include name and count of items for each watched virtual collection.	<ul style="list-style-type: none"> <li>• <b>Infrastructure:</b> Authentication</li> <li>• <b>Infrastructure:</b> Ownership</li> <li>• <b>Triplestore Model:</b> Established relationship between list and a watcher.</li> </ul>	ADVANCED FEATURE
		Lynette R. (Cornell)	Get name of a specific virtual collection.	<ul style="list-style-type: none"> <li>• <b>Application Model:</b> Track currently selected virtual collection.</li> </ul>	<p>Ontology: <a href="#">collections</a> (see list)</p> <p>Complete: Given a URI for a virtual collection, return its title.</p>
		Lynette R. (Cornell)	Get list of items for the currently selected virtual collection within the currently displayed range of items.	<ul style="list-style-type: none"> <li>• <b>Infrastructure:</b> Authentication</li> <li>• <b>Infrastructure:</b> Ownership</li> <li>• <b>Triplestore Model:</b> Established relationship between list and its items.</li> <li>• <b>Triplestore Model:</b> Get comments for a specific item in the context of the current virtual collection.</li> <li>• <b>Application Model:</b> Track currently selected virtual collection.</li> <li>• <b>Application Model:</b> Track the item range of items currently being displayed on My Virtual Collections.</li> </ul>	Can get list of all items. Need to integrate with Blacklight for paging and ranges.

		Lynette R. (Cornell)	Get comments for a specific item in the context of the current virtual collection.	<ul style="list-style-type: none"> <li>• <b>Infrastructure:</b> Authentication</li> <li>• <b>Infrastructure:</b> Ownership</li> <li>• <b>Triplestore Model:</b> Established relationship between list and it's items.</li> <li>• <b>Triplestore Model:</b> Established relationship between an item and it's comments in the context of a specific virtual collection.</li> <li>• <b>Application Model:</b> Track currently selected virtual collection.</li> </ul>	
		Lynette R. (Cornell)	Delete all triples related to a specific virtual collection from triple store. <ul style="list-style-type: none"> <li>• Deletes annotation triples specific to the use of items within the specific virtual collection being deleted.</li> <li>• Deletes item triples specific to their inclusion in the virtual collection being deleted.</li> <li>• Deletes collection triples specific to the virtual collection being deleted.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Infrastructure:</b> Authentication</li> <li>• <b>Infrastructure:</b> Ownership</li> <li>• <b>Triplestore Model:</b> Established relationship between list and an owner.</li> <li>• <b>Triplestore Model:</b> Established relationship between list and it's items.</li> <li>• <b>Triplestore Model:</b> Established relationship between an item and it's annotations within the context of a list.</li> </ul>	Ontology: <a href="#">collections</a> (see list, list-item) Ontology: <a href="#">open-annotation</a> (see specific-resource, hasScope)

	Lynette R. (Cornell)	Delete all triples related to a specific item within a specific virtual collection from triple store. <ul style="list-style-type: none"> <li>Deletes annotation triples specific to the use of the item being deleted within the specific virtual collection from which the item is being removed</li> <li>Deletes item triples specific to the item being deleted.</li> </ul>	<ul style="list-style-type: none"> <li><b>Infrastructure:</b> Authentication</li> <li><b>Infrastructure:</b> Ownership</li> <li><b>Triplestore Model:</b> Established relationship between list and an owner.</li> <li><b>Triplestore Model:</b> Established relationship between list and it's items.</li> <li><b>Triplestore Model:</b> Established relationship between an item and it's annotations within the context of a list.</li> </ul>	<p>Ontology: <a href="#">collections</a> (see list, list-item)</p> <p>Ontology: <a href="#">open-annotation</a> (see specific-resource, hasScope)</p>
	Lynette R. (Cornell)	Delete all triples related to a specific comment on a specific item within a specific virtual collection from triple store.	<ul style="list-style-type: none"> <li><b>Infrastructure:</b> Authentication</li> <li><b>Infrastructure:</b> Ownership</li> <li><b>Triplestore Model:</b> Established relationship between list and an owner.</li> <li><b>Triplestore Model:</b> Established relationship between list and it's items.</li> <li><b>Triplestore Model:</b> Established relationship between an item and it's annotations within the context of a list.</li> </ul>	<p>Ontology: <a href="#">collections</a> (see list, list-item)</p> <p>Ontology: <a href="#">open-annotation</a> (see specific-resource, hasScope)</p>
<b>Application Model</b>				
	Lynette R. (Cornell)	Track currently selected virtual collection.		
	Lynette R. (Cornell)	Track currently logged in user.	<ul style="list-style-type: none"> <li><b>Infrastructure:</b> Authentication</li> </ul>	
	Lynette R. (Cornell)	Track current set of error/information messages to display to the user on My Virtual Collections page.		
	Lynette R. (Cornell)	Track number of items to display per page (i.e. 10, 20, 50, 100). Use the same state as that used for search results in the discovery & access system.	<ul style="list-style-type: none"> <li><b>External:</b> Access to the state of the per page button for search results in the discovery &amp; access system.</li> </ul>	Requires integration with Blacklight
	Lynette R. (Cornell)	Track the number of items in the currently selected virtual collection.		Does this now by fetching all items. Need to use solr for this.

		Lynette R. (Cornell)	Track the item range of items currently being displayed on My Virtual Collections. Defaults to 1 thru max(number of items, number of items to display per page).	<ul style="list-style-type: none"> <li>• <b>Application Model:</b> Track number of items to display per page.</li> <li>• <b>Application Model:</b> Track the number of items in the currently selected virtual collection.</li> </ul>	Requires integration with Blacklight
		Lynette R. (Cornell)	Track sort order of displayed items (i.e. year asc/des, title A-Z/Z-A, author A-Z/Z-A, list order). Use the same state as that last used for search results in the discovery & access system, except in the case that the last selected sort order for virtual collections was <b>list order</b> , as that value is unique to virtual collections. In the case where the user chose <b>list order</b> for sorting virtual collection items, that state continues to be used for all virtual collections.	<ul style="list-style-type: none"> <li>• <b>External:</b> Access to the state of the sort by button for search results in the discovery &amp; access system.</li> </ul>	Requires integration with Blacklight
<b>User Interface</b>					
		Lynette R. (Cornell)	Add page to discovery & access website to manage My Virtual Collections. When clicking My Virtual Collection in the banner, you go to this page. When adding a resource(s) to a virtual collection, you go to this page when the operation completes.	<ul style="list-style-type: none"> <li>• <b>External:</b> Permission to modify CUL discovery &amp; access website.</li> </ul>	Done in the prototype. Need to work with D&A UI team and committee for design and approval.
		Lynette R. (Cornell)	Include search box with search limited to virtual collections the current user has permissions to manage (LHS)	<ul style="list-style-type: none"> <li>• <b>Triplestore Model:</b> Get list of all personal virtual collections a specific user can modify.</li> <li>• <b>Infrastructure:</b> Add virtual collection name and description to solr index searching.</li> <li>• <b>Infrastructure:</b> Add virtual collection name as a facet in solr index.</li> <li>• <b>Infrastructure:</b> Authentication</li> <li>• <b>Infrastructure:</b> Ownership</li> <li>• <b>Application Model:</b> Track currently logged in user.</li> </ul>	Requires integration with Blacklight
		Lynette R. (Cornell)	New Virtual Collection button beside title My Virtual Collections (LHS). Links to New Virtual Collection dialog.	<ul style="list-style-type: none"> <li>• <b>UI:</b> New Virtual Collection dialog exists. (<a href="#">Requirements</a>   <a href="#">Mockup</a>)</li> </ul>	

		Lynette R. (Cornell)	List virtual collections that the current user has permission to manage (LHS). Include name, count of items, and visibility for each virtual collection. Highlight currently selected collection (if any).	<ul style="list-style-type: none"> <li>• <b>Triplestore Model:</b> Get list of all personal virtual collections a specific user can modify.</li> <li>• <b>Application Model:</b> Track currently selected virtual collection.</li> <li>• <b>Infrastructure:</b> Authentication</li> <li>• <b>Infrastructure:</b> Ownership</li> <li>• <b>Application Model:</b> Track currently logged in user.</li> </ul>	Currently lists all collections. Requires integration with authentication/ authorization system.
		Lynette R. (Cornell)	Include an <b>information icon</b> beside each virtual collection. Links to Edit Virtual Collection Metadata dialog.	<ul style="list-style-type: none"> <li>• <b>UI:</b> Edit Virtual Collection Metadata dialog exists. (<a href="#">Requirements</a>   <a href="#">Mockup</a>)</li> </ul>	Or should it link to View Virtual Collection Metadata and from there, the user has the option to edit. That would make it consistent with what happens for watched virtual collections, except that the ones that are owned would have the Edit button and those watched would not.
		Lynette R. (Cornell)	Include a <b>delete icon</b> beside each virtual collection. Links to Delete Confirmation dialog. Execute delete if confirmed.	<ul style="list-style-type: none"> <li>• <b>UI:</b> Delete confirmation dialog exists (Mockup)</li> <li>• <b>Triplestore Model:</b> Delete all triples related to a specific virtual collection from triple store.</li> </ul>	
	Low	Lynette R. (Cornell)	Include search box with search limited to virtual collections the current user is watching (LHS)	<ul style="list-style-type: none"> <li>• <b>Triplestore Model:</b> Get list of all virtual collections a specific user is watching.</li> <li>• <b>Infrastructure:</b> Add virtual collection name and description to solr index searching.</li> <li>• <b>Infrastructure:</b> Add virtual collection name as a facet in solr index.</li> <li>• <b>Infrastructure:</b> Authentication</li> <li>• <b>Application Model:</b> Track currently logged in user.</li> </ul>	ADVANCED FEATURE Requires integration with authentication/authorization system.

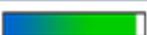
	Low	Lynette R. (Cornell)	Find Virtual Collections to Watch button beside title Watching Virtual Collections (LHS). Links to Find Public Virtual Collections dialog.	<ul style="list-style-type: none"> <li>• <b>UI:</b> Find Public Virtual Collections dialog exists. (<a href="#">Requirements</a>   <a href="#">Mockup</a>)</li> </ul>	ADVANCED FEATURE
	Low	Lynette R. (Cornell)	List virtual collections that the current user is watching (LHS). Include name, count of items, and visibility for each virtual collection. Highlight currently selected collection (if any).	<ul style="list-style-type: none"> <li>• <b>Triplestore Model:</b> Get list of all virtual collections a specific user is watching.</li> <li>• <b>Infrastructure:</b> Authentication</li> <li>• <b>Application Model:</b> Track currently logged in user.</li> </ul>	ADVANCED FEATURE
	Low	Lynette R. (Cornell)	Include an <b>information icon</b> beside each virtual collection. Links to View Virtual Collection Metadata dialog.	<ul style="list-style-type: none"> <li>• <b>UI:</b> View Virtual Collection Metadata dialog exists. (<a href="#">Requirements</a>   <a href="#">Mockup</a>)</li> </ul>	ADVANCED FEATURE Currently goes to edit.
		Lynette R. (Cornell)	Display title of currently selected Virtual Collection in main content area. Current selection defaults to first collection in list of My Virtual Collections.	<ul style="list-style-type: none"> <li>• <b>Application Model:</b> Track currently selected virtual collection.</li> <li>• <b>Triplestore Model:</b> Get name of a specific virtual collection.</li> </ul>	Currently defaults to none selected, which is probably better as it can take a long time to load items. May become less of an issue once performance analysis and enhancement is complete.
		Lynette R. (Cornell)	Display add/modify/delete message(s), if any, under title in main content area.	<ul style="list-style-type: none"> <li>• <b>Application Model:</b> Track current set of error/information messages to display to the user on My Virtual Collections page.</li> </ul>	Basically done. Needs to integrate into Blacklight messaging.
		Lynette R. (Cornell)	Display item numbers (e.g. 1 - 4 of 4) for items showing on current page.	<ul style="list-style-type: none"> <li>• <b>Application Model:</b> Track the item range of items currently being displayed on My Virtual Collections.</li> <li>• <b>Application Model:</b> Track the number of items in the currently selected virtual collection.</li> </ul>	Requires integration with Blacklight

	Lynette R. (Cornell)	Include button to change number of items (e.g. 10, 20, 50, 100) shown on current page with text displaying the current state of items per page.	<ul style="list-style-type: none"> <li>• <b>Application Model:</b> Track number of items to display per page.</li> </ul>	Requires integration with Blacklight
	Lynette R. (Cornell)	Include button to change sort order (e.g. year asc/des, title A-Z /Z-A, author A-Z/Z-A, list order) shown on current page.	<ul style="list-style-type: none"> <li>• <b>Application Model:</b> Track sort order of displayed items</li> </ul>	Requires integration with Blacklight
	Lynette R. (Cornell)	List of items included in the currently selected virtual collection. List of items is limited by the range of currently displayed items. Each item includes the same info as shown on search results pages (i.e., cover image, title, year, author, publishing info, library location, call number, comments specific to each item in current virtual collection)	<ul style="list-style-type: none"> <li>• <b>Application Model:</b> Track the item range of items currently being displayed on My Virtual Collections.</li> <li>• <b>Triplestore Model:</b> Get list of items for the currently selected virtual collection within the currently displayed range of items.</li> </ul>	Requires integration with Blacklight for ranges. Currently displays all items.
	Lynette R. (Cornell)	Include Move button beside each item. Links to Move Item dialog.	<ul style="list-style-type: none"> <li>• <b>UI:</b> Move Item dialog exists. (<a href="#">Requirements</a>   <a href="#">Mockup</a>)</li> </ul>	
	Lynette R. (Cornell)	Include Delete button beside each item. Links to Delete Item Confirmation dialog. If confirmed, deletes the item.	<ul style="list-style-type: none"> <li>• <b>UI:</b> Delete Item dialog exists. (<a href="#">Mockup</a>)</li> <li>• <b>Triplestore Model:</b> Delete all triples related to a specific item within a specific virtual collection from triple store.</li> </ul>	
	Lynette R. (Cornell)	Include Add Comment button below each item. Links to Add Item Comment dialog.	<ul style="list-style-type: none"> <li>• <b>UI:</b> Add Item Comment dialog exists. (<a href="#">Requirements</a>   <a href="#">Mockup</a>)</li> </ul>	
	Lynette R. (Cornell)	Include See Comments... button below each item. Shows hidden comments and changes button label to Hide Comments.... Clicked a second time hides comments and changes label back to See Comments.... Grayed out if no comments exist.	<ul style="list-style-type: none"> <li>• <b>UI:</b> List of items included in the currently selected virtual collection.</li> </ul>	NOTE: DIV of comments is generated with the list of items. The DIV is hidden initially for all items. The user can interactively show and hide the set of comments for each item. ( <a href="#">Mockup</a> )

		Lynette R. (Cornell)	Include a Delete Comment button beside each visible comment. Links to Delete Item Comment Confirmation dialog. If confirmed, deletes the item comment.	<ul style="list-style-type: none"> <li>• <b>UI:</b> Delete Item Comment Confirmation dialog exists. (Mockup)</li> <li>• <b>Triplestore Model:</b> Delete all triples related to a specific comment on a specific item within a specific virtual collection from triple store.</li> </ul>	
		Lynette R. (Cornell)	Include an Edit Comment button beside each visible comment. Links to Edit Item Comment dialog.	<ul style="list-style-type: none"> <li>• <b>UI:</b> Edit Item Comment dialog exists. (<a href="#">Requirements</a>   Mockup)</li> </ul>	

## Use Case 1.1 - Requirements - New Virtual Collection dialog (new)

[Mockup](#)

Item	Overall Progress	Priority	Developer	Description	Dependencies	Comments
<b>External</b>						
			Lynette R. (Cornell)	Add virtual collection name and description to solr index searching.	<ul style="list-style-type: none"> <li>• <b>External:</b> Collaboration with developer for discovery &amp; access solr index.</li> </ul>	Added to VC solr index (not D&A) for use with Blacklight.
			Lynette R. (Cornell)	Add virtual collection name as a facet in solr index.	<ul style="list-style-type: none"> <li>• <b>External:</b> Collaboration with developer for discovery &amp; access solr index.</li> </ul>	Need to test faceting once integration with Blacklight is complete.
<b>Infrastructure</b>						
<b>Triplestore Model</b>						
			Lynette R. (Cornell)	Add triples for new virtual collection to private or public triple store.		Ontology: <a href="#">collections</a> - list
<b>User Interface</b>						
			Lynette R. (Cornell)	Add dialog to gather metadata about new virtual collection, e.g. name, description, privacy (public, shared, private). Generate access link if shared.		Having the ability to create a new collection here may present some challenges since there are two types of collections, i.e. personal and library. See <a href="#">Use Case 1.2</a> for more info on library virtual collections.
			Lynette R. (Cornell)	Include Cancel button to close dialog without saving.		

			Lynette R. (Cornell)	Include Save button to validate and save new virtual collection.	<ul style="list-style-type: none"><li>• <b>External:</b> Add virtual collection name and description to solr index searching.</li><li>• <b>External:</b> Add virtual collection name as a facet in solr index.</li><li>• <b>Triplestore Model:</b> Add triples for new virtual collection to private or public triple store.</li></ul>	Add to public when user marks Access as Public. Add to private when user marks Access as Private. What about when shared? Are we opening up a security hole if we allow access to private triplestore using the Access Link. Need to think about the implications of this more.
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