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Deliverable 6

Method Description

Name	search()
Class Name	Collection
Purpose	Finds artifacts that most closely meet the search criteria such as keywords and fields.
Triggers/Events	User selects "Search" button after typing in text and selecting a field to search by. For example, they may search for a certain word and choose that it represents a location from something like a drop-box.

Arguments Received

Name	Data Type	Comments
Search_text	String	This text represents the text in the search criteria.
Field	String	This is a string value that corresponds to the field we want to search in. That is we may search by fields like keywords, location of the artifact, etc. In this case the user will be using a drop-down and it will generate the appropriate string.

Methods from Other Classes

ClassName.MethodName	Comments
N/A	This is one of the most relevant methods and is used in other methods such as Entry's view().
N/A	
N/A	

Argument Returned

Data Type	Comments
Integer	This returns the entry ID for each record that meets or is close to the search criteria. It may be adjusted to order it by most relevant.

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Algorithm Specification

For each Entry in Collection
  if (Entry->Field like '%Search_text%')
    return Entry.eid
next Entry

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Scenario Analysis Tables

Use Case Name	Login
Use Case ID	12

Normal Scenario

Step #	Step Text	Data Stored	Screens Needed	Reports Needed
1	User enters name and password.		User Login Screen	
2	User selects the "Login" button.		User Login Screen	
3	System validates user information.			
4	Upon success, the user is granted access to unpublished files and appropriate privileges.			

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Use Case Name	Search
Use Case ID	4

Normal Scenario

Step #	Step Text	Data Stored	Screens Needed	Reports Needed
1	User enters text in the form corresponding to the field they want to search on. That is, the word(s) are what they're searching for on the corresponding field.		Search Screen	
2	The user selects the field they want to search on from a selection given to them. They may search all fields for matches or a specific field.		Search Screen	
3	User selects the "Search" button.		Search Screen	
4	System queries the database for any entries that match or are similar to the search criteria			
5	System generates a webpage of search results.		Search Results	

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Use Case Name	Retrieve Citation
Use Case ID	1

Normal Scenario

Step #	Step Text	Data Stored	Screens Needed	Reports Needed
1	User searches for artifact(s).		Search Screen	
2	User selects an artifact webpage from the search results.		Search Results	
3	User views webpage.		View Entry	
4	User selects the "Generate Citation" button.		Retrieve Citation	
5	System gathers relevant artifact information and provides a formatted citation.		Retrieve Citation	