Abstract

Project Description and System Use Cases

CS5500-SPRING17-TEAM1

Use Cases v1.0

Hari Vikas Janarthanan – [Janarthanan.h@husky.neu.edu](mailto:Janarthanan.h@husky.neu.edu)

Rohit Kumar – [kumar.ro@husky.neu.edu](mailto:kumar.ro@husky.neu.edu)

Yuzhi Ma – [ma.yuz@husky.neu.edu](mailto:ma.yuz@husky.neu.edu)

# Project Description

Aim of the project is to develop an application that would facilitate selection of appropriate candidate to review submissions to a Program Committee Chair or Associate Editor. The application would make use of existing repository of conference and journal data from sources such as but not limited to DBLP Computer Science Biography (<http://dblp.uni-trier.de>), ACM Digital Library (<http://dl.acm.org>)

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC 2119. <https://www.ietf.org/rfc/rfc2119.txt>

# Use Cases

|  |  |
| --- | --- |
| **Use-case ID** | **UC01** |
| **Use-case** | Configure a Data Source |
| **Primary Actor** | User |
| **Goal in context** | To add a new data source to the application so that it can be queried upon |
| **Preconditions** | The application MUST be installed on the user’s computer  The application MUST be launched and the interface MUST be visible to the user |
| **Trigger** | User wants to issue queries on a new data source |
| **Scenario** | 1. User clicks on the “Add data source” button on the top navigation bar 2. System displays the “Add data source” wizard 3. User selects the type of data source from the “Type” drop down menu 4. User enters a unique name for the data source 5. User selects the mapping from the drop down menu or specifies a custom mapping 6. User enters the path / URL to the data source 7. User clicks on the “Add” button 8. System shows a loading screen and begins to process the data source in the background 9. System displays a success message when the process is completed |
| **Exceptions** | 1. System fails to add the data source: System has encountered an error and an error code and message are displayed. See use case ‘UC13 – Application Error’ |
| **Priority** | High |

|  |  |
| --- | --- |
| **Use-case ID** | **UC02** |
| **Use-case** | Search for a Publication |
| **Primary Actor** | User |
| **Goal in context** | To view list of publication that match the search criteria |
| **Preconditions** | The application MUST be installed on the user’s computer  The application MUST be configured with a data source  The application MUST be launched and the interface MUST be visible to the user |
| **Trigger** | User wants to search for publications based on the search criteria |
| **Scenario** | 1. User selects the content type as “Publication” in the search panel 2. User enters the keyword in the search bar 3. User clicks the “Search” button 4. System displays all the publications matching the keyword along with the author names |
| **Exceptions** | 1. No results found. See use case ‘UC14 – Zero search results’ 2. System fails to retrieve data: System has encountered an error and an error code and message are displayed. See use case ‘UC13 – Application Error’ |
| **Priority** | High |

|  |  |
| --- | --- |
| **Use-case ID** | **UC03** |
| **Use-case** | Search for a Journal / Conference |
| **Primary Actor** | User |
| **Goal in context** | To view list of Journals / Conferences matches the search criteria |
| **Preconditions** | The application MUST be installed on the user’s computer  The application MUST be configured with a data source  The application MUST be launched and the interface MUST be visible to the user |
| **Trigger** | User wants to search for Journals / Conferences based on the search criteria |
| **Scenario** | 1. User selects the content type as “Journal” or “Conference” in the search panel 2. User enters the keywords related to the Journal / Conference in the search bar 3. User clicks the “Search” button 4. System displays the list of relevant Journal / Conferences names that match the keywords |
| **Exceptions** | 1. No results found. See use case ‘UC14 – Zero search results’ 2. Application fails to retrieve data: Application has encountered an error and an error code and message are displayed. See use case ‘UC13 – Application Error’ |
| **Priority** | High |

|  |  |
| --- | --- |
| **Use-case ID** | **UC04** |
| **Use-case** | View list of publications under a specific Conference / Journal |
| **Primary Actor** | User |
| **Goal in context** | To view list of publication that are published in a specific Conference / Journal |
| **Preconditions** | UC03 MUST be performed |
| **Trigger** | User wants to search for Journals or Conferences based on keywords |
| **Scenario** | 1. From the list of Conference / Journal displayed in UC03, User clicks on the specific Conference or Journal name. 2. System displays all the publications that are published within the selected Conference / Journal along with the author names |
| **Exceptions** | 1. No results found. See use case ‘UC14 – Zero search results’ 2. System fails to retrieve data: System has encountered an error and an error code and message are displayed. See use case ‘UC13 – Application Error’ |
| **Priority** | High |

|  |  |
| --- | --- |
| **Use-case ID** | **UC05** |
| **Use-case** | Search for a specific author |
| **Primary Actor** | User |
| **Goal in context** | Retrieve a list of authors that meet the specific search criteria |
| **Preconditions** | The application MUST be installed on the user’s computer  The application MUST be configured with a data source  The application MUST be launched and the interface MUST be visible to the user |
| **Trigger** | User wants to search for specific authors |
| **Scenario** | 1. User selects content type as “Author” 2. User enters the keywords related to the author’s name in the search bar 3. User clicks on the “Search” button 4. System displays the list of authors whose names match the search keyword |
| **Exceptions** | 1. No results found. See use case ‘UC14 – Zero search results’ 2. System fails to retrieve data: System has encountered an error and an error code and message are displayed. See use case ‘UC13 – Application Error’ |
| **Priority** | High |

|  |  |
| --- | --- |
| **Use-case ID** | **UC06** |
| **Use-case** | Search for similar authors |
| **Primary Actor** | User |
| **Goal in context** | Identify authors who have a similar profile to a given author |
| **Preconditions** | The application MUST be installed on the user’s computer  The application MUST be configured with a data source  The application MUST be launched and the interface MUST be visible to the user |
| **Trigger** | User wants to search for authors who are similar to a particular author |
| **Scenario** | 1. User selects the content type as “Author” 2. User enters the name of the Author in Search bar 3. User select the “Similar to” filter from the filter menu 4. User clicks the “Search” button 5. System displays a list of authors who are similar to the given author. If there are more than one author with the given name, the results are grouped by the author name. |
| **Exceptions** | 1. No results found. See use case ‘UC14 – Zero search results’ 2. System fails to retrieve data: System has encountered an error and an error code and message are displayed. See use case ‘UC13 – Application Error’ |
| **Priority** | High |

|  |  |
| --- | --- |
| **Use-case ID** | **UC07** |
| **Use-case** | View author details |
| **Primary Actor** | User |
| **Goal in context** | See the detailed information of a selected author |
| **Preconditions** | UC02 or UC04 of UC07 MUST be performed |
| **Trigger** | User wants to see the detailed information of a specific author |
| **Scenario** | 1. User clicks on the name of the author from the displayed search results 2. System displays the detailed information of the selected author such as his publications, his past roles as editor / PC and other authors who are similar to him. |
| **Exceptions** | 1. System fails to retrieve data: System has encountered an error and an error code and message are displayed. See use case ‘UC13 – Application Error’ |
| **Priority** | High |

|  |  |
| --- | --- |
| **Use-case ID** | **UC08** |
| **Use-case** | Shortlist Author |
| **Primary Actor** | User |
| **Goal in context** | To add an Author to a shortlist so that an editor or program committee can be formed |
| **Preconditions** | UC07 MUST be performed |
| **Trigger** | User wants to shortlist a particular author |
| **Scenario** | 1. From the Author Details page, the User clicks on the “Shortlist” button. 2. System displays the list of available shortlists. 3. User clicks on the required list or creates a new shortlist by clicking on the “New” button and entering a name of the shortlist. 4. System adds the author to the selected shortlist. |
| **Exceptions** | 1. System fails to add Author to shortlist: System has encountered an error and an error code and message are displayed. See use case ‘UC13 – Application Error’ |
| **Priority** | High |

|  |  |
| --- | --- |
| **Use-case ID** | **UC9** |
| **Use-case** | View Shortlisted Authors |
| **Primary Actor** | User |
| **Goal in context** | To view the list of shortlisted authors |
| **Preconditions** | The application MUST be installed on the user’s computer  The application MUST be configured with a data source  The application MUST be launched and the interface MUST be visible to the user |
| **Trigger** | User wants to view all shortlisted authors |
| **Scenario** | 1. User clicks on the “View Shortlist” button on the top navigation bar. 2. System displays the list of available shortlists. 3. User clicks on the required shortlist 4. System displays all the authors who have been added to that shortlist |
| **Exceptions** | 1. System fails to retrieve shortlist: System has encountered an error and an error code and message are displayed. See use case ‘UC13 – Application Error’ |
| **Priority** | High |

|  |  |
| --- | --- |
| **Use-case ID** | **UC10** |
| **Use-case** | View publication details |
| **Primary Actor** | User |
| **Goal in context** | View the details of a publication |
| **Preconditions** | UC02 or UC04 MUST be performed |
| **Trigger** | User wants to see the details of a specific publication from the search results |
| **Scenario** | 1. User clicks on the publication from the search results of UC02 or UC05 2. System displays the detailed information of the selected publication |
| **Exceptions** | 1. System fails to retrieve publication: System has encountered an error and an error code and message are displayed. See use case ‘UC13 – Application Error’ |
| **Priority** | High |

|  |  |
| --- | --- |
| **Use-case ID** | **UC11** |
| **Use-case** | Specify search filters |
| **Primary Actor** | User |
| **Goal in context** | To filter results based on some criteria |
| **Preconditions** | The application MUST be installed on the user’s computer  The application MUST be configured with a data source  The application MUST be launched and the interface MUST be visible to the user |
| **Trigger** | User wants to filter the search by specifying additional criteria |
| **Scenario** | 1. User selects content type from the search panel 2. System displays a list of available filters for the chosen content type 3. User selects one or more filters and enters the filter value for each filter 4. User clicks on the “Search” button 5. System displays the search results that match the given filter criteria |
| **Exceptions** | 1. No results found. See use case ‘UC14 – Zero search results’ 2. System fails to retrieve data: System has encountered an error and an error code and message are displayed. See use case ‘UC13 – Application Error’ |
| **Priority** | High |

|  |  |
| --- | --- |
| **Use-case ID** | **UC12** |
| **Use-case** | Sort search results |
| **Primary Actor** | User |
| **Goal in context** | To sort results based on some criteria |
| **Preconditions** | One of UC02, UC03, UC04, UC05, UC06 MUST be performed |
| **Trigger** | User wants to sort the returned results based on some sort criteria |
| **Scenario** | 1. User chooses the sort criteria in the sort option menu 2. Systems displays the search results based on the selected sort criteria |
| **Exceptions** | 1. System fails to sort data: System has encountered an error and an error code and message are displayed. See use case ‘UC13 – Application Error’ |
| **Priority** | High |

|  |  |
| --- | --- |
| **Use-case ID** | **UC13** |
| **Use-case** | Application Exception |
| **Primary Actor** | User |
| **Goal in context** | The user has encountered an application error / exception |
| **Preconditions** | The application MUST be installed on the user’s computer  The application MUST be configured with at least one repository  The application MUST be launched and the interface MUST be visible to the user |
| **Trigger** | User wants to resolve application exceptions |
| **Scenario** | 1. User encounters an application exception 2. The application provides an appropriate error code and a user-friendly message 3. User can attempt to resolve the issue by using the error code and referring to the user manual 4. User may contact the support team and provide the exact error code and message |
| **Priority** | High |

|  |  |
| --- | --- |
| **Use-case ID** | **UC14** |
| **Use-case** | Zero Search Results |
| **Primary Actor** | User |
| **Goal in context** | To understand reasons behind an empty search result |
| **Preconditions** | The application MUST be installed on the user’s computer  The application MUST be launched and the interface MUST be visible to the user |
| **Trigger** | User has encountered an empty search result for his search query |
| **Scenario** | 1. User enters a search query and the system displays an empty search result 2. User may check his search query for typographic errors 3. User may remove any search refinement criteria to broaden the search |
| **Priority** | Low |