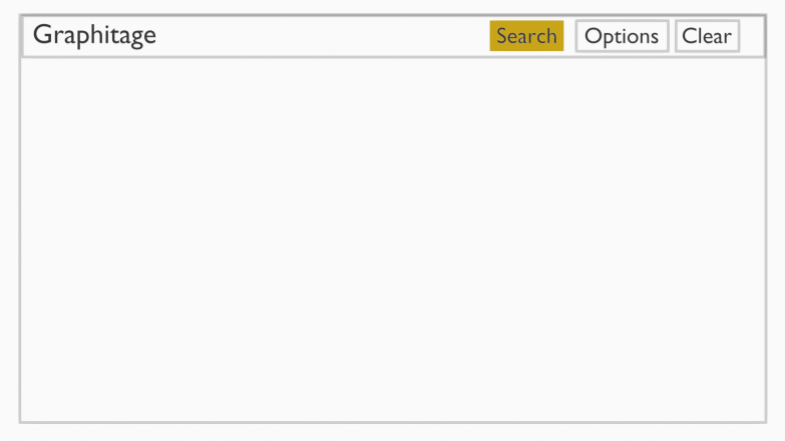
GRAPHITAGE

USE CASE SCENARIO

1. Application Description

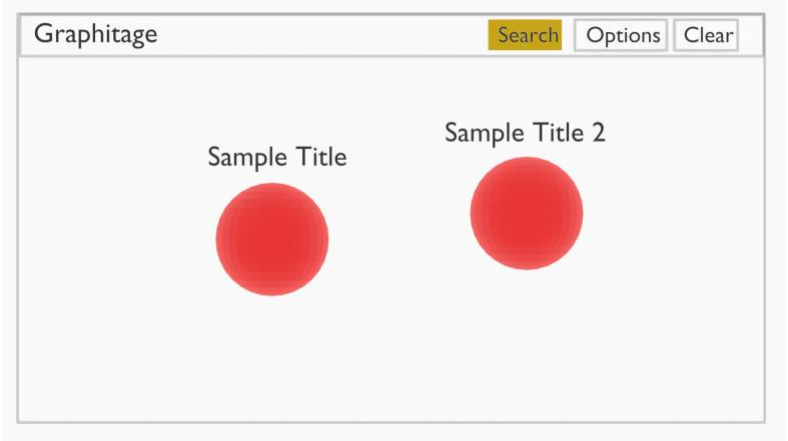
A program that displays user-saved articles on a graph. The user can add new articles to the graph, delete articles from the graph, and view the relationships between articles.

2. Searching Operation



A-) No articles are shown when the program is first opened. When users want to search for any article, they click on the **SEARCH** button on the toolbar.

B-) When the user clicks the search button, a box opens on the left. Users fill the properties of the article they want to search into the field. Articles can be searched according **to the title of the article, the date of publication of the article, the keywords in the article, datasets used in the article, readers of the article and the libraries in the article.** All fields do not have to be filled. After the fields are filled in, the **SEARCH** button is clicked.

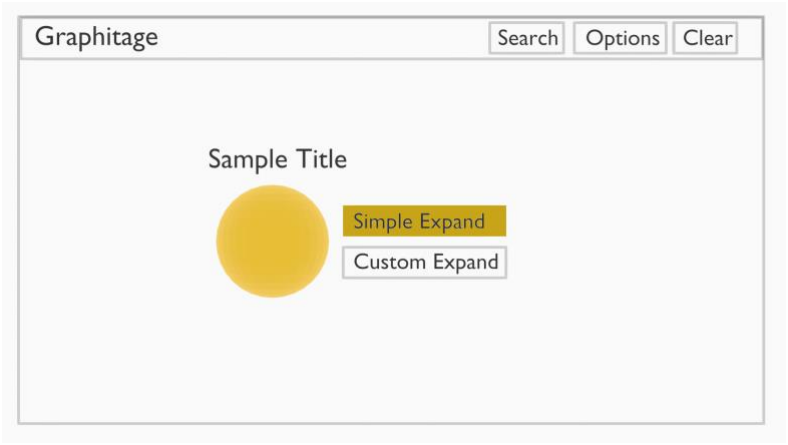


C-) The articles in the database according to the selected features are presented to the user as a node. There may be more than one article matching the given specifications, in which case they are all shown.

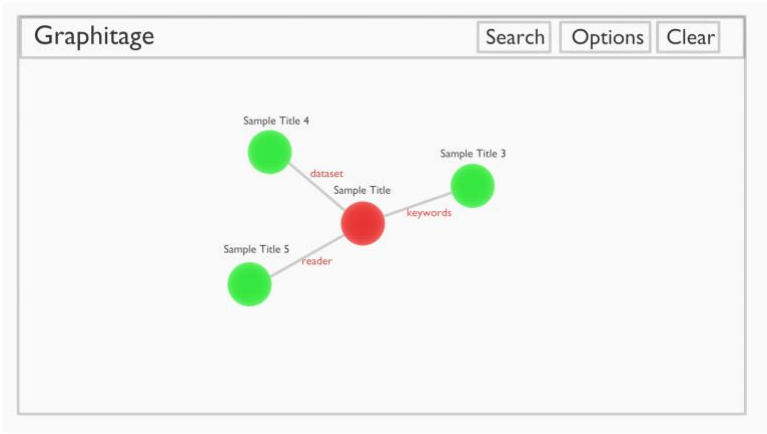
3. Expansion Operation

Expansion operation that shows the articles related to the selected article. It has two options: custom expand and simple expand.

3.1. Simple Expansion Operation

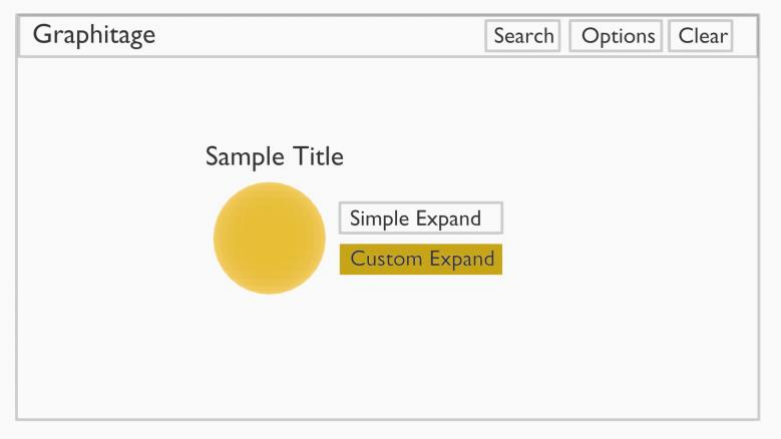


A-) When users want to see the articles related to the article, they must right click on the node. Users should click the **SIMPLE EXPAND** button if they want to show all the relationships for the node.

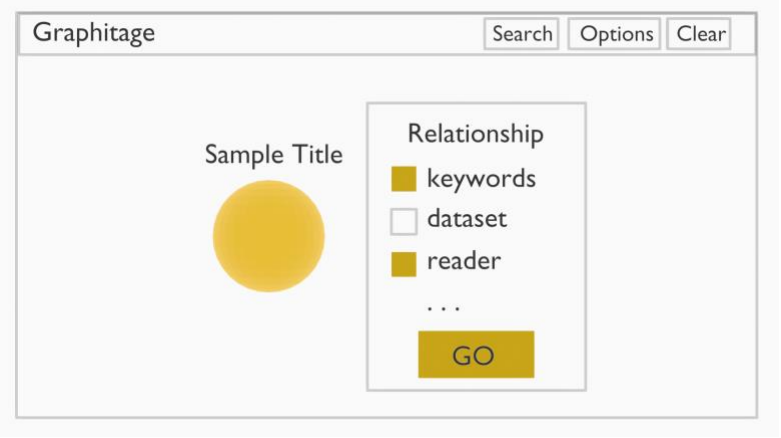


B-) All the articles related to the extended article show on the graph. The relationship between the articles is presented to the user on the edges.

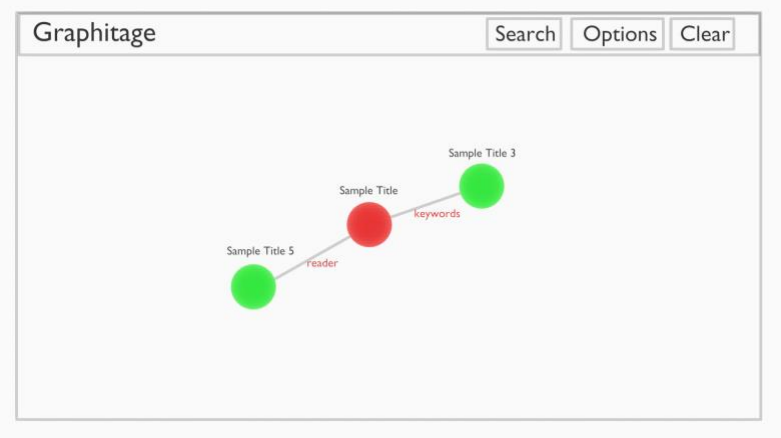
3.2. Custom Expansion Operation



A-) Users can filter for relationships while expanding nodes. Only articles that are in the relationships that they have identified can be displayed. Users who want to show their chosen relationships for the node should click the **CUSTOM EXPAND** button.



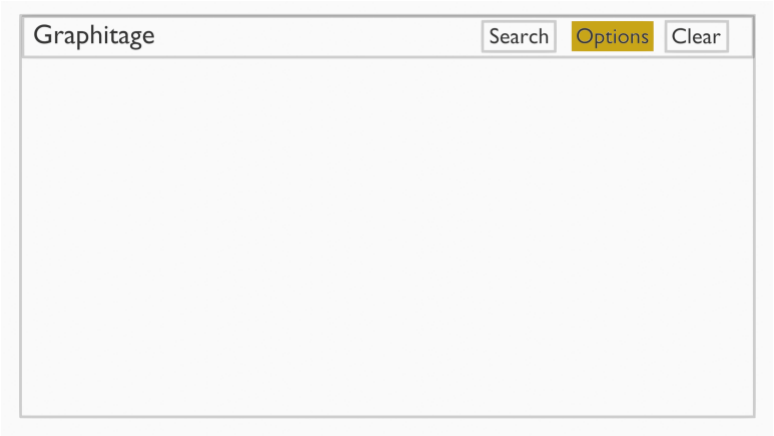
B-) While expanding the nodes, the user can filter **the datasets included in the article, libraries, readers of the article, evaluation metrics in the article, keywords of the article and references of the article.** User can expand the node by pressing **GO** button after selecting features.



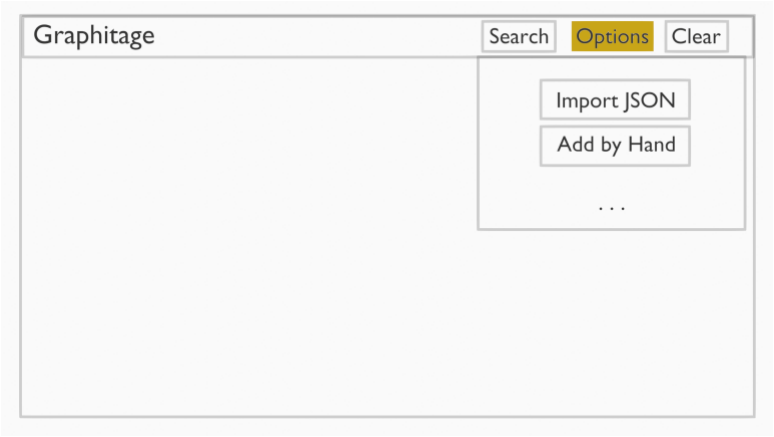
C-) The articles are shown on the graph according to the relationship that they selected. The relationship between the articles is presented to the user at the edges.

4. Adding Operation

When the user wants to add a new article, there are two options. These are the import to JSON object and manually entering article information.

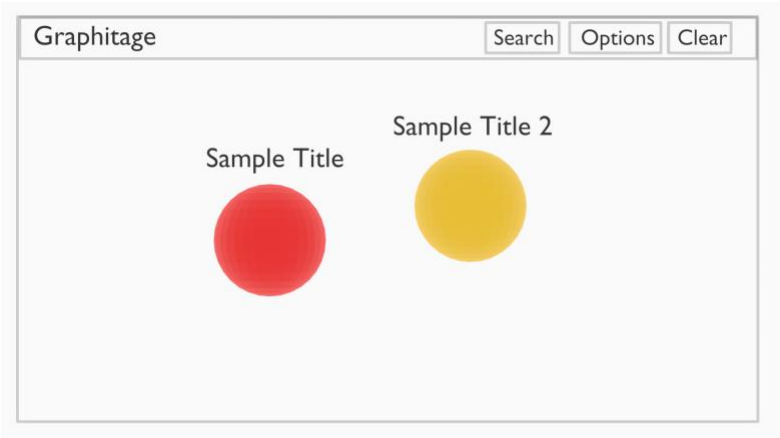


A-) When users want to add new article, they click on the **OPTIONS** button on the toolbar.

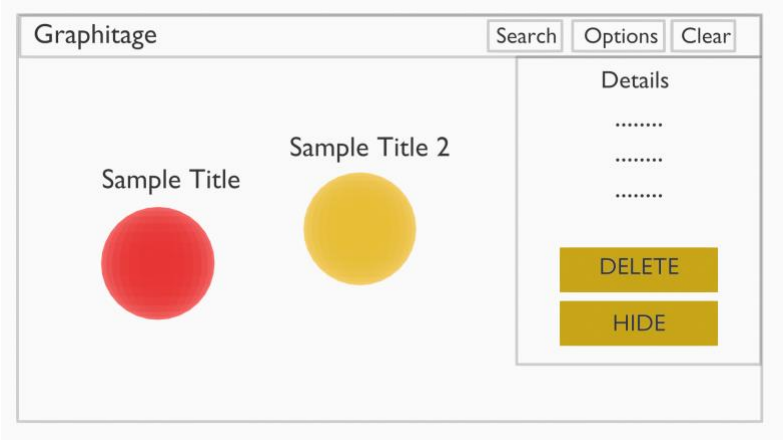


B-) After clicking the **OPTION** button, the user can add a new article to the system by selecting the **IMPORT JSON** or **ADD by HAND** buttons from the opened window.

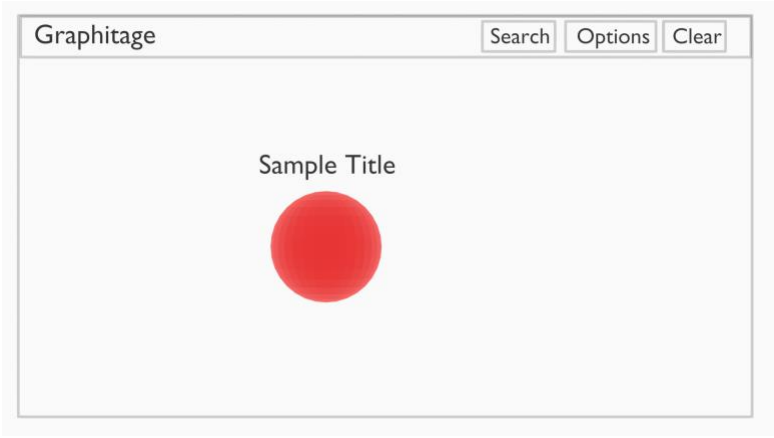
5. Deleting Operation



A-) Users select the article they want to delete. The article to be deleted in the image on the left is "Sample Title 2"

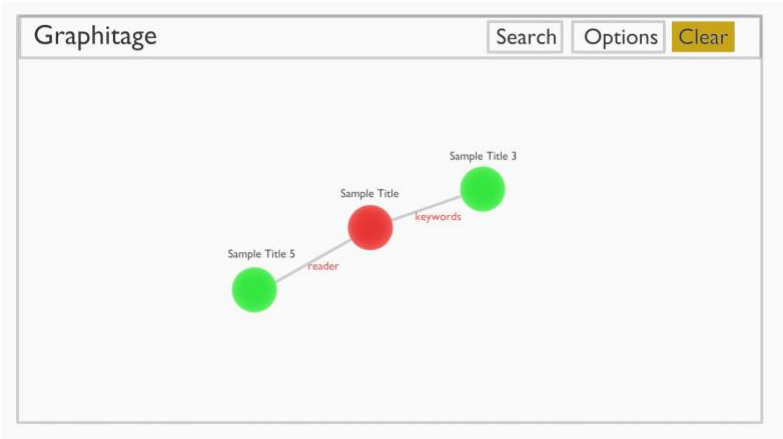


B-) When the user selects the node, the window with the details of the article appears on the right. If the user clicks the **DELETE** button, the article is deleted in the database. In addition to deleting, users can click on the **HIDE** button if they wants the selected node not to appear on the UI.



C-) After deleting the "Sample Title 2" article from the graph, it is shown in the image on the left.

6. Cleaning Operation



A-) If the user wants to clear the screen, they click on the **CLEAR** button on the toolbar.

B-) It is shown in the image on the left after cleaning.