



Description (Use Case Diagram)

There are 4 actors:

- 1. System
- 2. Database
- 3. GUI
- 4. User

The System parses the data from the Database and stores it in some Java Collection. It also performs entity resolution for homophobic entries. Then, the GUI displays a homepage and asks the User to choose one of the 3 queries.

- 1. If the User choses Query1, then it needs to enter the name of the author or the title that it wants to search for. Also, the System gives the User the functionality to choose among sorting w.r.t date, relevance, after some year or in between two years. But the default sort is the sort by date. If the User enters an invalid input, the GUI pops an error. The System performs the sorting and GUI displays the result.
- 2. If the User choses Query2, then it needs to enter the value of k. For an invalid input, the GUI pops an error. The System searches for the required entries and the GUI displays the result.
- 3. If the User choses Query3, then it needs to enter the name of 5 authors and the year till which we need to predict. Again, here, the System predicts the result as required.

The result includes the count and entries so matched. If the count is zero, the GUI pops an error.

