# DBLP Query Engine

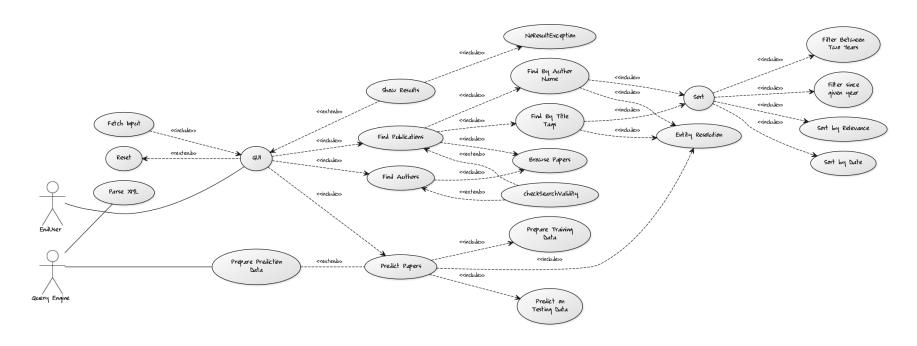
Initial Understanding

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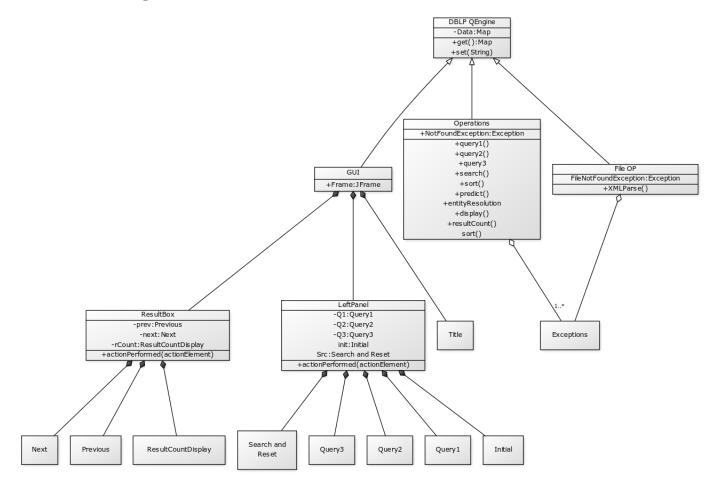
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## 1 Use Case Diagram



### 2 Class Diagram



### 3 Variable/Method Description

#### 3.1 Variable Description

- 1. Data:Map Map returned by Parser
- 2. Frame: JFrame is a frame
- 3. NotFoundException: Exception throws exception when necessary
- 4. FileNotFoundException: Exception throws exception when necessary
- 5. prev:Previous Button to show previous 20 results
- 6. next:Next Button to show next 20 results
- 7. rCount:ResultCountDisplay Dialog to display the number of results
- 8. Q1:Query1 Panel which contains GUI Elements for Query 1
- 9. Q2:Query2 Panel which contains GUI Elements for Query 2
- 10. Q3:Query3 Panel which contains GUI Elements for Query 3
- 11. init:Initial Contains initial dropdown menu to choose query from
- 12. Src:Search and Reset Panel which contains the buttons Search and Reset.

#### 3.2 Method Description

- 1. get():Map returns Data
- 2. set(String) Takes XML Filename as input parameter. Called when XMLParser changes data.
- 3. query1() Performs necessary operations to run Query 1
- 4. query2() Performs necessary operations to run Query 2
- 5. query3() Performs necessary operations to run Query 3
- 6. search() performs the search operation
- 7. sort() performs the sort operation
- 8. predict() predicts next year's publication for a particular author with testdata as input
- 9. entityResolution performs entity resolution for the given name of the author to map it correctly
- 10. resultCount() counts the number of results fulfilling a certain criteria
- 11. XMLParse() Parses the XML file using DOM Parser
- 12. actionPerformed() performs a specific action based on the button pressed/query chosen