DBLP Class Diagram

UserInterface

-mainPanel: JPanel

+main(args: string[0..*]): void
+startFrame(): void
+processRequest(): void

Database

-dataRec: DataRecords[0..*]
-parser: SAXparser

+findName(name: String): void
+findTitle(title: String): void
+Database(filename: String)
+getAuthorNameWithK(k: int): void
+predictPapers(a: int[1..*]): void
+sortByDate(): void
+sortByRelevance(): void
+sortByAfterYear(year: int): void
+sortBetweenYears(y1: int, y2: int): void
+getResults(): DataRecords[0..*]

Query1

-result: DataRecords[0..*]

+Query1(): void
+getResult(): DataRecords[0..*]

Query2

-result: DataRecords[0..*]

+Query2(): void
+getResult(): DataRecords[0..*]

AuthorManager

-authorMap: HashMap

+resolveAuthor(name: String): Author
+createMap(filename: String): void

DataRecords

-author: Author
-title: String

+getAuthor(): Author
+getTitle(): String
+getArray(): DataRecords[0..*]

Query3

-result: DataRecords[0..*]

+Query3(): void
+getResult(): DataRecords[0..*]

Author

-name: String

+getName(): String
+equals(second: Author): boolean