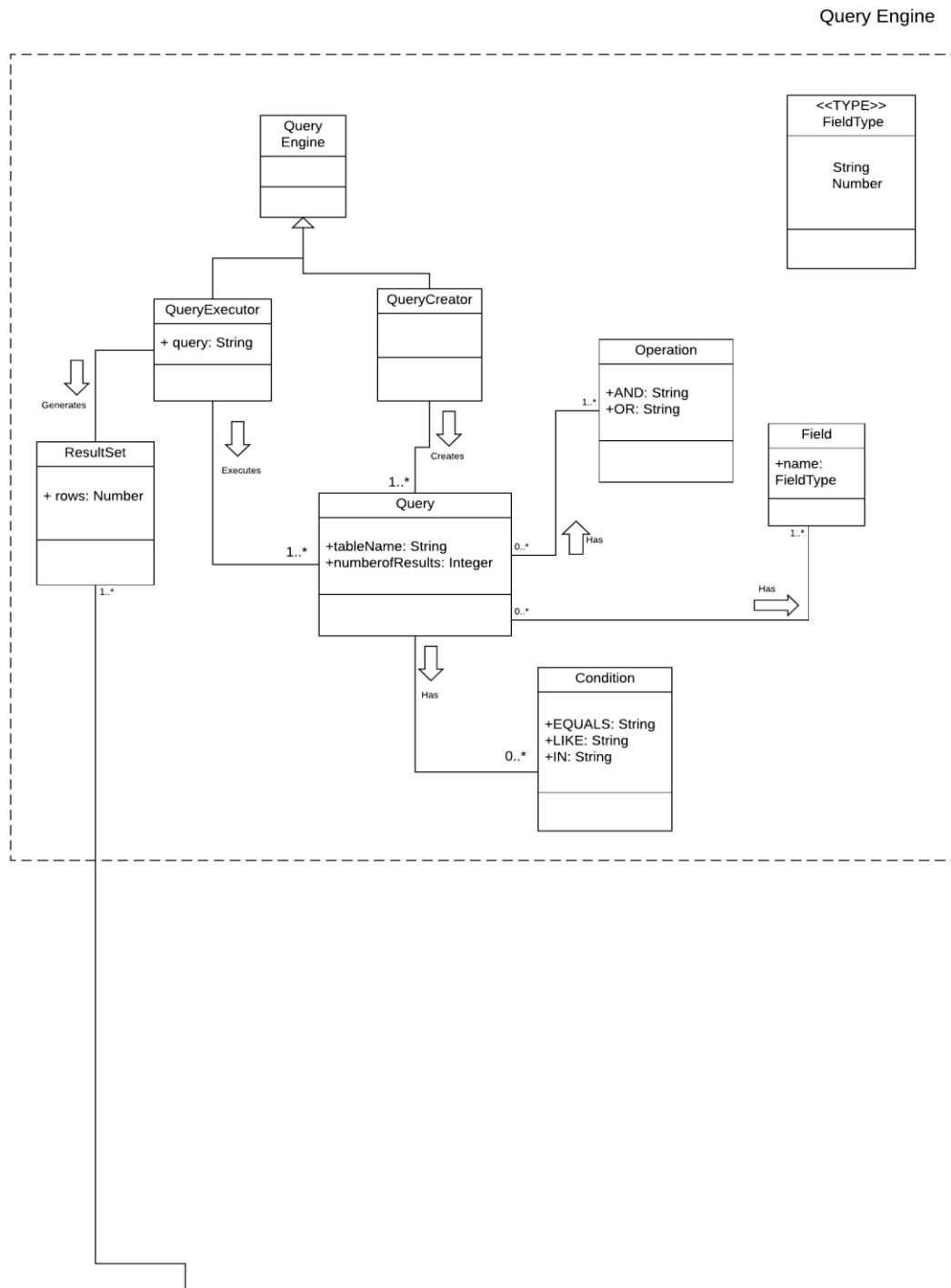
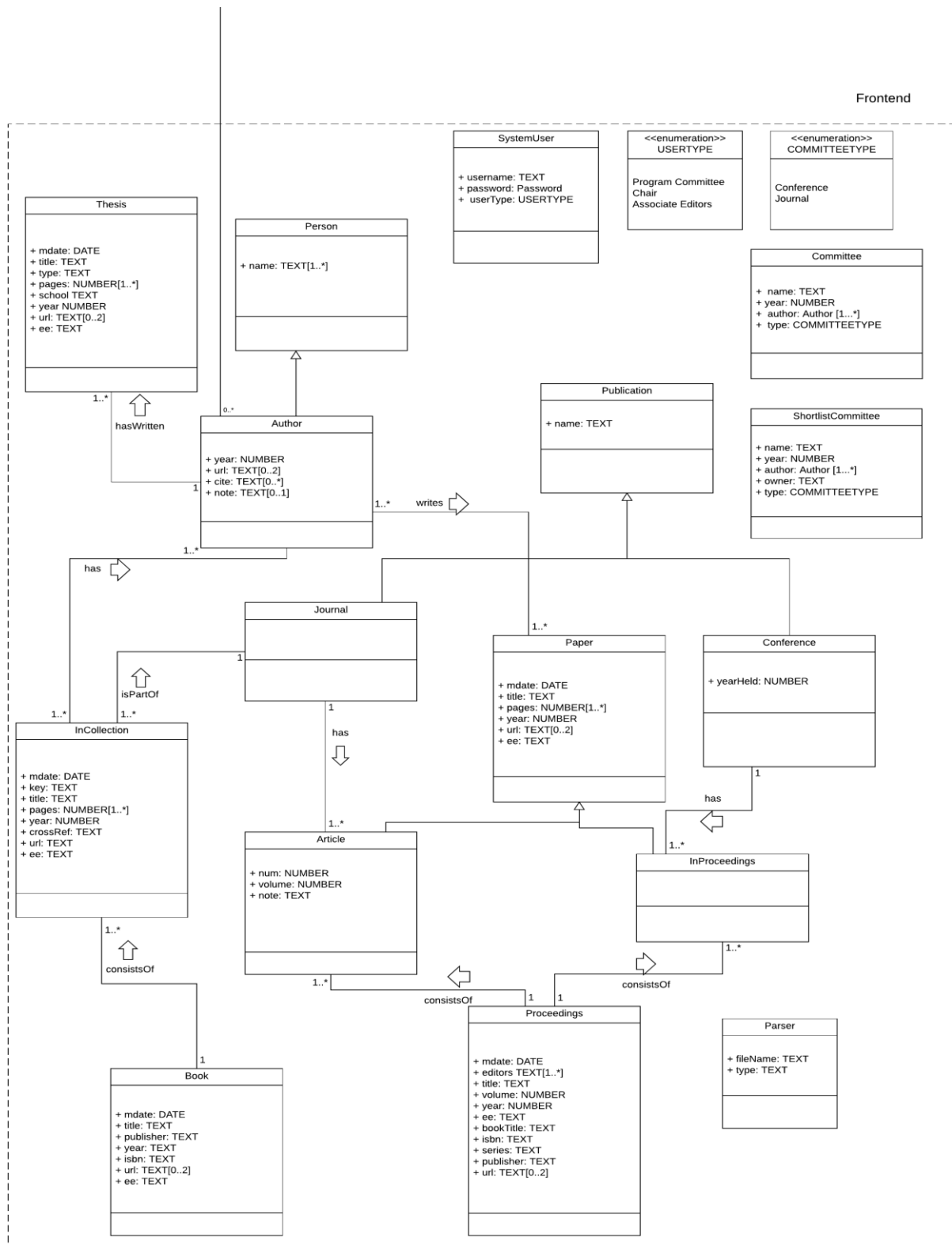


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SYSTEM CLASS DIAGRAM (low level)



Frontend



Class Definitions:

Query Engine

- **Query Engine:** Receives the input from the user interface in the user readable format, executes the query and generates output back to the user readable format
- **QueryExecutor:** Executes the query generated by the QueryCreator and generate ResultSet
- **QueryCreator:** Creates the query from the fields obtained from the user interface
- **Operation :** Represents the operation to be applied on the query
- **Field:** Represents the fields entered by the user, ex. Name, Year
- **Condition:** Represents the conditions applicable to the query, ex. IN,LIKE
- **Query:** Represents the Query formed by the QueryExecutor and contains Fields, Operations and Conditons
- **ResultSet:** Represents the output of the QueryExecutor and has certain number of rows and columns
- **ObjectCreator:** Represents the object which converts the resultset obtained by the QueryExecutor to the object type to be delivered to the User Interface
- **FieldType:** Represents the enumeration for the types of fields entered by the user on search page

Front End

- **SystemUser:** It represents the registered user of the system.
- **UserType:** Represents the type of user of the system. Currently there are two types of user: Program Committee Chair and Associate Editors.
- **CommitteeType:** Represents the type of committee the user is trying to form. Currently there are two types of committee: Conference and Journal.
- **Person:** Represents a Person.
- **Thesis:** Stores the details about a thesis written by an author.
- **Committee:** Stores the committee members formed for each conference occurred in a particular year or editorial board formed for journal published.
- **Author:** Represents details about each author.
- **Publication:** Represents publication details. Publication can be either a Journal or for Conference.
- **ShortlistCommittee:** Stores the details about the committee which the user of system is trying to form. It contains the list of authors shortlisted for either editorial board or committee.
- **Journal:** Stores details about Journal, name, articles published, etc.
- **Paper:** It stores the details about article or inproceedings that were presented in either journal or conference.
- **Conference:** Stores details about a conference, like name, year held, etc.
- **InCollection:** It represents the details about an incollection. It is part of a book, and has details relating to journal.
- **InProceedings:** InProceeding is a paper presented in a conference which might eventually become a Proceeding.
- **Article:** Represents one of the article published in a journal at specific pages in the journal.
- **Proceedings:** Proceedings contains more details about the specific conference or journal including the volume, year of conference/journal.

- **Parser:** Proceedings contains more details about the specific conference or journal including the volume, year of conference/journal.
- **Book:** Book consists of one or more incollection. Each book contains details about a specific book with details like isbn, title, year, publisher.