

## **Classes for Reviewer-Finder App**

### **RawFile Class:**

This class consists of basic file attributes like name, size, etc.

### **Parser Class:**

This class is used to correspond to different wrappers based on the raw file structure to parse the values to form the tabular data.

### **DataWrapper Class:**

This class defines the structure of the file with Tag Id's and tags with actual value to be parsed.

### **Database Class:**

This class defines the database structure for our application. If the consolidated table does not exist in the database on server start, the parser is triggered to create a database with the tables using the parsed data. This ensures that we don't parse and keep the data in physical memory on the server for every starting instance.

### **Archived Class:**

This is an ORM (Object-Relational Mapping) class to store details of all the possible articles along with keys to publications, authors and papers.

### **Publication Class:**

This is an ORM class to store details about the conference held or journal of published papers.

### **Committee Class:**

This is an ORM class to store details about the committee of the publication for a specific year.

### **Paper Class:**

This is an ORM class to store details about the papers published.

### **Author Class:**

This is an ORM class to store details about the author of the paper.

**QueryEngine Class:**

This is an ORM class to construct the criteria object that will be used for querying the database.

**Criteria Class:**

This class defines the clauses and prepositions as an Object rather than a hard coded query.

**UI Class:**

This class processes the JSON request and transmits the JSON constructed response along with initial user authentication.

**User Class:**

This class defines the details about a user such as credentials, type, etc.