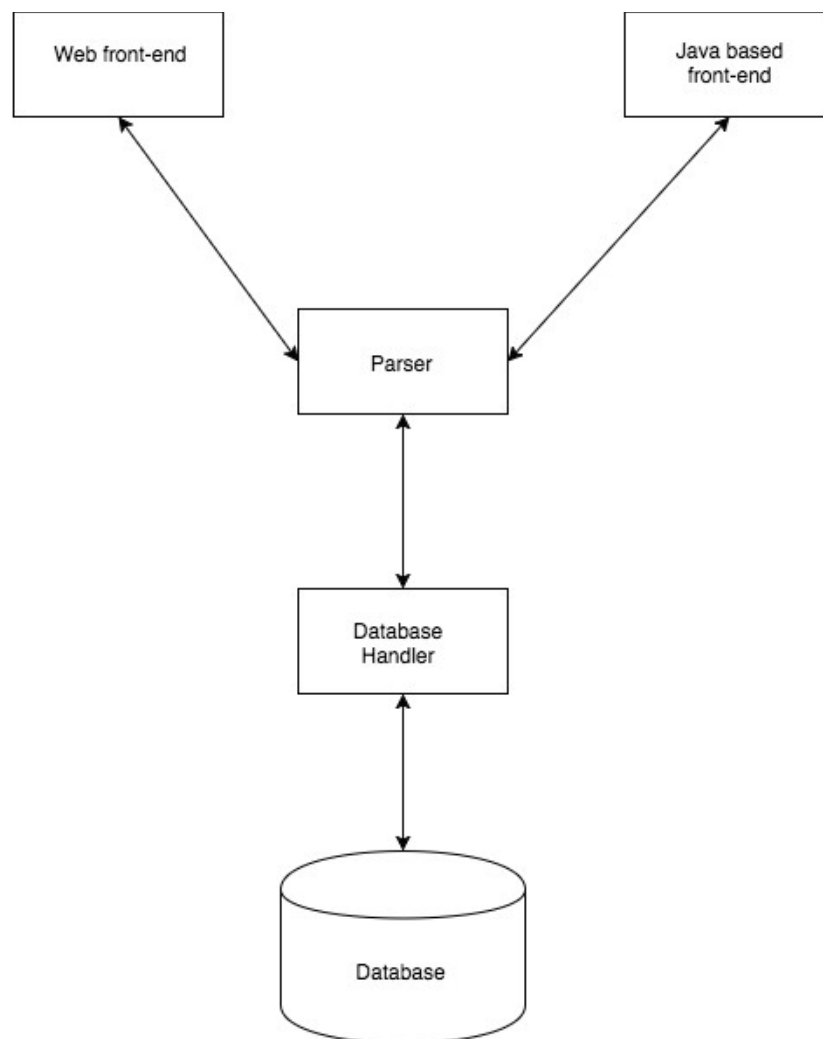


CSC301 Phase 2

Table of Contents

	Page
High level System Architecture Design	3
CRC Card Explanation	4
Error Handling	5

High-level System Architecture Design



CRC Card Explanation

We will have three classes that deal with any interaction with the database: DatabaseHandler, DatabaseQuerying and DatabaseUploading. In order to follow Single Responsibility Principle, we decided to split up database interaction into three classes. We will have to use SQLite in these classes

We will have five classes that deal with any parsing: Parser, HTMLParser, PDFParser and TXTParser and UserInputParsing. The Parser class acts as a superclass to these other classes and each of these classes are responsible for parsing a specific type of document. For the HTMLParser, we will have to use Jsoup. UserInputParsing will have to use Openlp Apache.

We then have the Account class that will deal with anything related to students and instructors: signing up, changing information, uploading documents.

We have a Document class that will hold information about the document, such as uploader, likes, comments, etc.

Our SearchEngine class will connect the parsed input from the user to the database classes to retrieve documents for the user.

Lastly, our Email class is responsible for sending emails to other users, which is an addition we added to our service.

Error Handling

If the user searches for something and our database has no documents that have to do with what the user searched, then we will give an option to the user to Google what they were looking for. If the user performs an invalid search, then we will prompt the user for another search query. If there are network issues (cannot connect to database, internet unavailable, etc.), we will notify the user of the issue and have an error page/prompt regarding to the issue.