Class Overviews

**LoginWindow.java**

LoginWindow is the main class of the project. It contains the code for the GUI as well as functions for the button actions. This class serves as the front-end and interface for the main algorithms.

**BackgroundRunner.java**

BackgroundRunner is the class that, using SwingWorker, allows the GUI to respond while the search algorithm is running. It is also responsible for controlling the multithreading and collecting all the data into a final list.

First, the imports:

**import** **java.io.BufferedReader**;

**import** **java.io.FileNotFoundException**;

**import** **java.io.FileReader**;

**import** **java.io.IOException**;

**import** **java.util.ArrayList**;

**import** **java.util.Collections**;

**import** **java.util.List**;

**import** **java.util.Vector**;

**import** **java.util.concurrent.ExecutionException**;

**import** **javax.swing.JLabel**;

**import** **javax.swing.SwingWorker**;

BufferedReader is used for the method updateSrc() to load sources from the text file containing them into the ArrayList sources to be individually searched.

String searchFor;

User currentusr;

**final** int OUTSIZE = 12;

ArrayList<Extractor> extractors = **new** ArrayList<>();

String sourcesFile = "sources.txt";

String finalHTML = "out/storygrab.html";

Vector<Link> sources = **new** Vector<>();

int maxDepth = 2;

**private** boolean isRunning = **false**; *//changes frequently*

String forClassifier = "src/datasets/links.csv";

JLabel statusLblRef, outputlbl, longout, hitslbl;

boolean shouldStop = **false**;

boolean verbose = **false**;

ArrayList<Link> hitLinks;

String DB\_URL = "jdbc:derby://localhost:1527/FinalLinks";

**private** boolean dynamic = **true**;

**Extractor.java**

The Extractor class contains the main searching algorithm.