Advanced Programming

Lab # 6– LOCAL SPIDER

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# Documentation

Public repo: <https://github.com/talalmts/CS-213-Advanced-Programming.git>

# Local Spider

Local spider is file crawler which indexes all the file stored in the given directory. The spider stored the files name, path and content of the file in Arraylist of Objects. So later this could be used for searching. The Local spider is implemented to in cooperate threading for better performance.

## Classes:

### Crawler:

#### ReadFile(String name):

Read the content of the file with the extension txt, java and html. Return the value of the content and return it.

### Search(String value):

Search the indexed value of files and search on the base of value and print out the details of the file name, path and its content if value exist in the respective file.

### CrawlDir():

The function crawl through the directory and save them in the arraylist of object MyFile and initialize each attribute accordingly.

## MyFile:

Handles all the file specification

* String Name
* String Path
* String Content

Default Constructor is used to initialize the value with the proper value provided by the Crawler.

## UnitTest:

### UnitTest\_CrawlDIR:

Crawl the current directory and store all the file contain in the current directory in the arraylist of object of the class MyFile storing value of file

* String Name
* String Path
* String Content

### UnitTest\_SearchDIR:

Search the directory for the search value provided in the index file and the content stored and return the details of the file:

* String Name
* String Path
* String Content

## ThreadHandler:

Handles all the thread pool and make them work concurrently.