

Multi-Threaded Indexing API

Run the app with the command : `java -cp ./indexer.jar ie.atu.sw.Runner`

In order to run the program I had to open an administrator command prompt after installing the Java 19 runtime environment.

This Java19+ multithreaded indexing API allows for the creation of a word index from an e-book or URL. The index contains a list of words along with the page numbers on which they appear and the dictionary-defined meanings of each word.

To use the API, specify the e-book in .txt format and the program will parse it using virtual threads and build an index by examining every word in each sentence.

In addition, the API will parse and process the [dictionary.csv](#) file . Words from the [google.txt](#) file will be excluded from the index.

The [index.txt](#) file is stored in the project directory.

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.22000.1335]
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C:\WINDOWS\system32>cd C:\Users\qwert\eclipse-workspace\Multi-Threaded Indexing API\ie
C:\Users\qwert\eclipse-workspace\Multi-Threaded Indexing API\ie>java --version
java 19.0.1 2022-10-18
Java(TM) SE Runtime Environment (build 19.0.1+10-21)
Java HotSpot(TM) 64-Bit Server VM (build 19.0.1+10-21, mixed mode, sharing)

C:\Users\qwert\eclipse-workspace\Multi-Threaded Indexing API\ie>java -cp ./indexer.jar ie.atu.sw.Runner
Error: LinkageError occurred while loading main class ie.atu.sw.Runner
       java.lang.UnsupportedClassVersionError: Preview features are not enabled for ie/atu/sw/Runner (class file version 63.65535). Try running with '--enable-preview'

C:\Users\qwert\eclipse-workspace\Multi-Threaded Indexing API\ie>java -cp ./indexer.jar ie.atu.sw.Runner --enable-preview
Error: LinkageError occurred while loading main class ie.atu.sw.Runner
       java.lang.UnsupportedClassVersionError: Preview features are not enabled for ie/atu/sw/Runner (class file version 63.65535). Try running with '--enable-preview'

C:\Users\qwert\eclipse-workspace\Multi-Threaded Indexing API\ie>java --enable-preview -cp ./indexer.jar ie.atu.sw.Runner
[0;37m
*****
*      ATU - Dept. Computer Science & Applied Physics      *
*                                                           *
*      Virtual Threaded Text Indexer                       *
*                                                           *
*****
(1) Specify a text file to process
(2) Choose an alternative dictionary location
(3) Load Google's 1000 most common words
(4) Specify output file path
(5) Generate Index
(6) Quit
--[1;90mSelect Option [1-6]>
1
Please specify the file to read in
e.g. - ./text-files/filename.txt
./text-files/HappyPrinceWilde.txt
--[0;37m
```