

Object Oriented Programming- Project README

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*****
*      ATU - Dept. of Computer Science & Applied Physics      *
*                                                                *
*              Virtual Threaded Sentiment Analyser              *
*                                                                *
*****
(1) Specify a Text File
(2) Specify a URL (Note: this means which line in the file you want analysis for)
(3) Specify an Output File (default: ./out.txt)
(4) Configure Lexicons
(5) Execute, Analyse and Report
(6) Quit
Select Option [1-4 or 6 before you select 5]>
```

What you see above is the menu user-interface provided for the user to interact with the code.

Option 1:

This lets the user put in a file path to the text they want to get analysis for. This will also read out the contents of the file for the user.

Option 2:

This lets the user specify which line in the file is to be analysed from the file specified in option 1.

Option 3:

This lets the user specify where they would like the analysis report to be saved, if not specified it will be sent to “./out.txt”, if specified it’s saved to the path specified.

Option 4:

This lets the user specify the path of their chosen lexicon used to calculate the sentiment.

Option 5:

This can only be run if the 2 resource paths and file line have been given as you cannot calculate the data without this, this is why the menu says pick options 1-4 or 6 before 5. The output file has a default path if the user doesn’t specify it so this method can run without doing steps 3 and 6.

Once conditions are met this executes the calculations using the lexicon and averages the derived values from the lexicon. It prints the line of text and the total sentiment value. This is done concurrently with virtual threads.

After this is finished by default it is outputted to a file by a different class.

Option 6:


This allows the user to close the application entirely without doing a sentiment analysis.

NOTE: The console text colour implementation

File output:

The Program does this if option 5 is executed sending the report to the file for the user.

Example of results set in a file:

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File Edit View 
```

```
-----  
ANALYSIS DETAILS:  
Resource paths:  
File path being compared:../100-twitter-users/acemas21.txt  
Lexicon path:../src/lexicons/afinn.txt  
Line submitted for analysis:@DanielFielding Nope I have no picture of you  
whatsoever  
Sentiment value for this line (NOTE: the higher the value the more positive  
the statement was in sentimental value):-0.1111111111111111  
  
-----  
ANALYSIS DETAILS:  
Resource paths:  
File path being compared:../100-twitter-users/heykim.txt  
Lexicon path:../src/lexicons/bingliu.txt  
Line submitted for analysis:@SuziDK no reason to not STILL enjoy his  
tweets... he still does...  
Sentiment value for this line (NOTE: the higher the value the more positive  
the statement was in sentimental value):0.083333333333333333  
  
Ln 8, Col 17 | 100% | Unix (LF) | UTF-8
```