



Final Project - Word Occurrences

The Word Occurrences Project was made for CEN3024C Class, as my final assignment. In which we covered the following topics:

- Source control
- Documentation/JavaDoc
- Creating a UI
- Unit testing
- Databases
- Deployment

Using this project, the user will be able to analyze a text input and receive the analysis of the number of words contained in it and also how many times each word appears in it. This code has been tested with a pass-fail test (*Junit*).

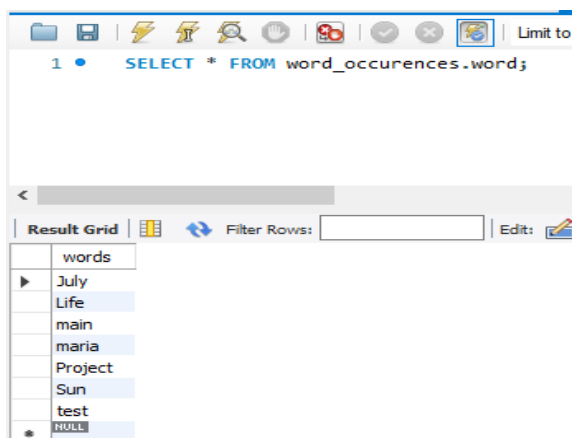
The word database can also be used to enter words directly into the database. The program will prompt the user if they wish to continue entering words or if they are done. As a result, the program prints out the word list.

Client and server deployments are also available in the program. This is because you can see in real time what is happening with the program, both on the user and client side.

PrintScreens of the Project

Database:

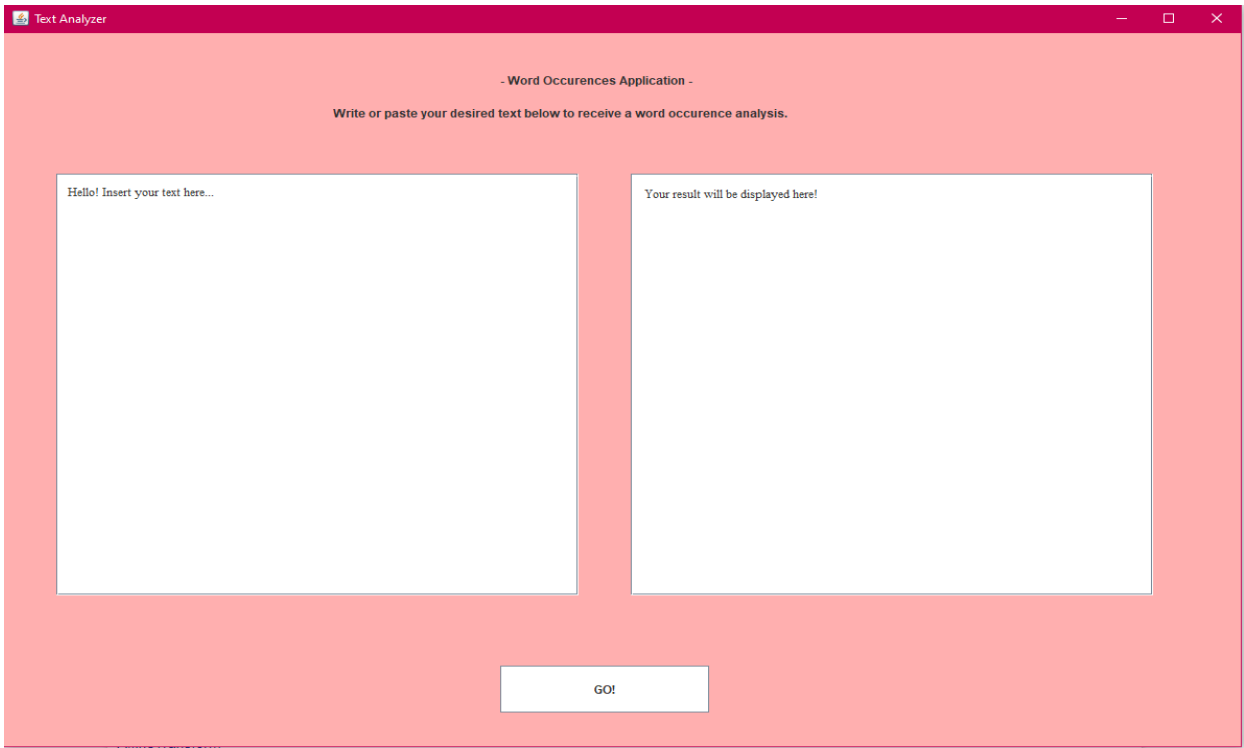
```
<terminated> WordOccurrencesDB (2) [Java Application] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (Jul 28, 2022, 9:33:01 PM – 9:33:30 PM)
Please enter a word to input into the database:
Project
Loading class `com.mysql.jdbc.Driver'. This is deprecated. The new driver class is `com.mysql.cj.jdbc.Driver'
Here is the updated Database
Life
main
maria
Project
Sun
test
Do you have to enter more words? (1 = YES; 0 = NO)
1
Please enter a word to input into the database:
July
Here is the updated Database
July
Life
main
maria
Project
Sun
test
Do you have to enter more words? (1 = YES; 0 = NO)
0
Here are the list of words and how many time they occurred:
Entered Words: July Occurrences: 1
Entered Words: Life Occurrences: 1
Entered Words: main Occurrences: 1
Entered Words: maria Occurrences: 1
Entered Words: Project Occurrences: 1
Entered Words: Sun Occurrences: 1
Entered Words: test Occurrences: 1
```



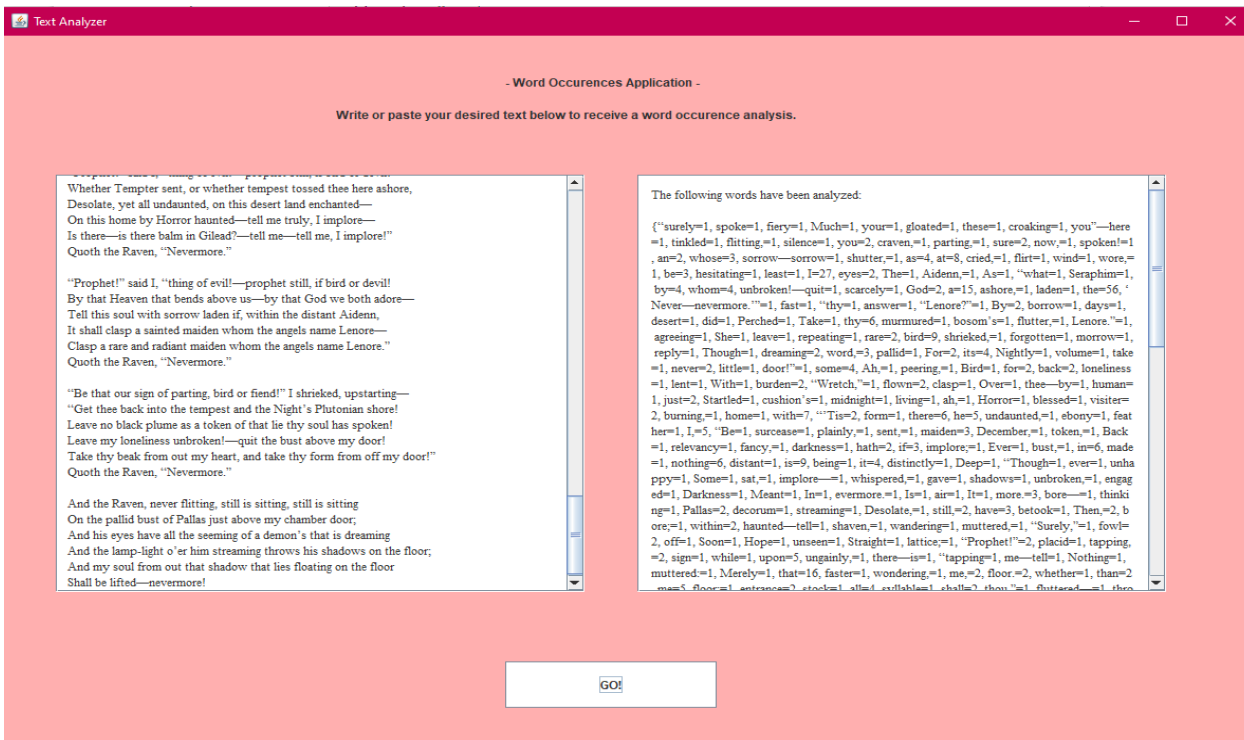
The screenshot shows a database application window with a toolbar at the top. Below the toolbar, a SQL query is entered: `SELECT * FROM word_occurences.word;`. Below the query, there is a section for the results. A tab labeled "Result Grid" is active. To the right of the tab is a "Filter Rows" input field and an "Edit" button. The results are displayed in a table with a single column named "words". The table contains the following rows: July, Life, main, maria, Project, Sun, test, and a row with a star icon and the value NULL.

words
July
Life
main
maria
Project
Sun
test
* NULL

Project:



Project + The Raven Poem:



<terminated> TAnalyzer (1) [Java Application] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (Jul 28, 2022, 10:35:09 PM – 10:36:00 PM) [pid: 26256]

Here you can write or paste the text you want to be analyzed below by the Word Occurencies Application
You should type (NEW) to add a new piece of text or (STOP) to quit the text analyzer application.

Have fun!

The Raven

by Edgar Allan Poe

Once upon a midnight dreary, while I pondered, weak and weary,
Over many a quaint and curious volume of forgotten lore—
While I nodded, nearly napping, suddenly there came a tapping,
As of some one gently rapping, rapping at my chamber door.
“’Tis some visiter,” I muttered, “tapping at my chamber door—
Only this and nothing more.”

Ah, distinctly I remember it was in the bleak December,
And each separate dying ember wrought its ghost upon the floor.
Eagerly I wished the morrow;—vainly I had sought to borrow
From my books surcease of sorrow—sorrow for the lost Lenore—
For the rare and radiant maiden whom the angels name Lenore—
Nameless here for evermore.

And the silken sad uncertain rustling of each purple curtain
Thrilled me—filled me with fantastic terrors never felt before;
So that now, to still the beating of my heart, I stood repeating
“’Tis some visiter entreating entrance at my chamber door—
Some late visiter entreating entrance at my chamber door;
This it is and nothing more.”

Presently my soul grew stronger; hesitating then no longer,
“Sir,” said I, “or Madam, truly your forgiveness I implore;
But the fact is I was napping, and so gently you came rapping,
And so faintly you came tapping, tapping at my chamber door,
That I scarce was sure I heard you”—here I opened wide the door—
Darkness there and nothing more.

Deep into that darkness peering, long I stood there wondering, fearing,
Doubting, dreaming dreams no mortals ever dared to dream before;
But the silence was unbroken, and the stillness gave no token.

<

<terminated> TAnalyzer (1) [Java Application] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (Jul 28, 2022, 10:35:09 PM – 10:36:00 PM) [pid: 26256]

STOP

the	[57]
and	[38]
	[32]
i	[32]
my	[24]
of	[22]
that	[18]
this	[16]
a	[15]
door	[14]
chamber	[11]
is	[11]
nevermore	[11]
raven	[11]
bird	[10]
on	[10]
me	[9]
at	[8]
by	[8]
from	[8]
lenore	[8]
more	[8]
or	[8]
then	[8]
with	[8]
above	[7]
but	[7]
he	[7]
in	[7]
no	[7]
nothing	[7]
said	[7]
soul	[7]
still	[7]
there	[7]
thy	[7]
hust	[6]

PRIME NUMBER CALCULATOR:

```
<terminated> client [Java Application] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (Jul 28, 2022, 10:39:02 PM – 10:39:09 PM) [pid: 12032]  
Prime Number Calculator
```

```
Enter your numer here: 33
```

```
Is 33 a prime number? No
```

```
<terminated> client [Java Application] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (Jul 28, 2022, 10:40:40 PM – 10:40:54 PM) [pid: 18280]  
Prime Number Calculator
```

```
Enter your numer here: 7
```

```
|
```

```
Is 7 a prime number? Yes
```

DATABASE STRUCTURE:

Thu Jul 28 22:20:25 2022, New Model - EER Diagram (part 1 of 1)

