

Article Writing Helper with Python

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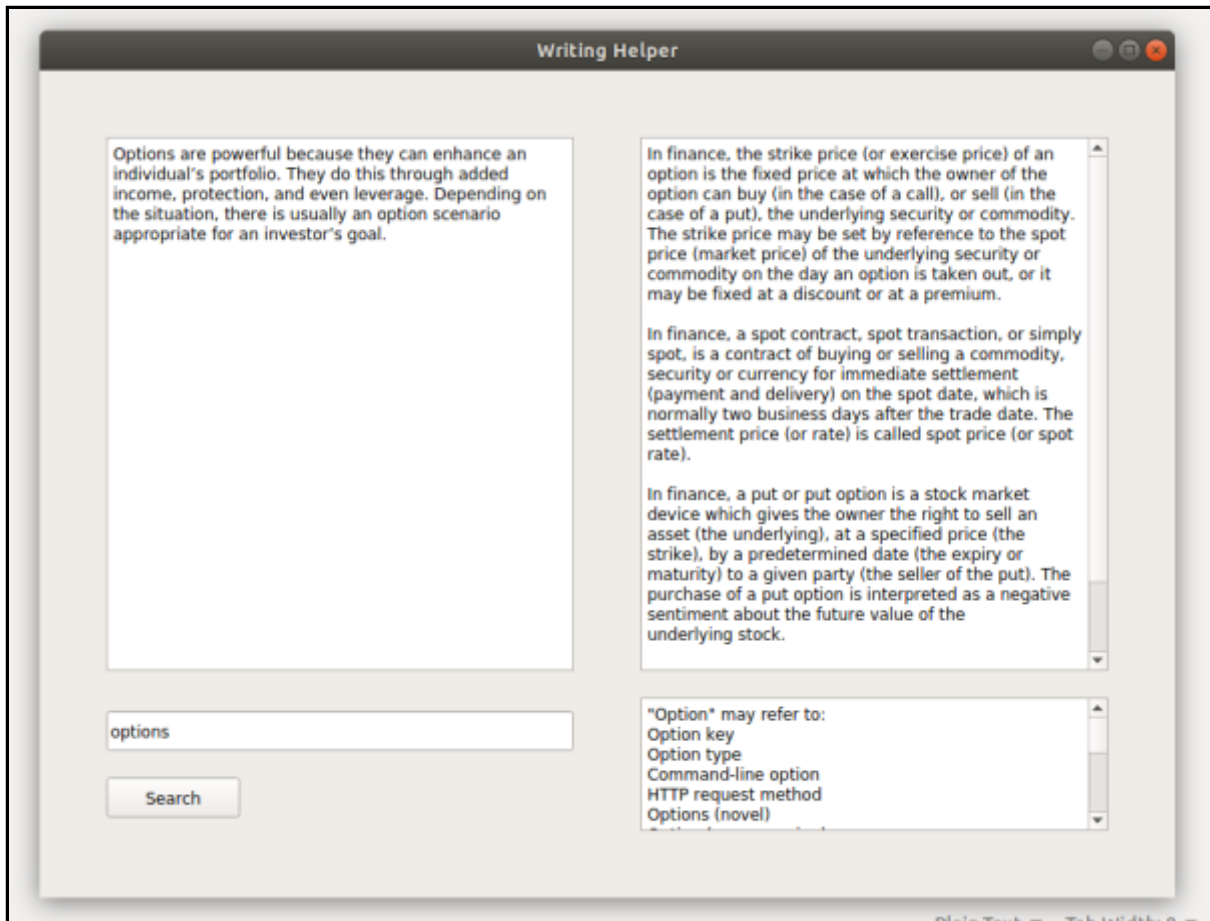
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When writing articles, we often need reference in order to add value to the content. We can utilize Wikipedia to deal with this issue.



Here is the complete code:

```

from PyQt5.QtWidgets import QMainWindow, QApplication, QPushButton, QPlainTextEdit, QLineEdit
from PyQt5.QtCore import pyqtSlot, QCoreApplication
import wikipedia
import sys

class App(QMainWindow):
    def __init__(self):
        super().__init__()
        self.title = 'Writing Helper'
        self.left = 10
        self.top = 10
        self.width = 850
        self.height = 620
        self.initUI()

    def initUI(self):
        self.setWindowTitle(self.title)

        self.content_box = QPlainTextEdit(self)
        self.content_box.resize(350,400) #input text box
        self.content_box.move(50,50)

        self.search_box = QLineEdit(self)
        self.search_box.resize(350,30)
        self.search_box.move(50,480)

        self.search_button = QPushButton('Search',self)
        self.search_button.move(50,530)
        self.search_button.clicked.connect(self.on_click)

        self.reference_box = QPlainTextEdit(self)
        self.reference_box.resize(350,400) #input text box
        self.reference_box.move(450,50)

```

```

self.message_box = QPlainTextEdit(self)
self.message_box.resize(350,100) #input text box
self.message_box.move(450,470)

self.setGeometry(self.left, self.top, self.width, self.height)
self.show()
def on_click(self):
search_text = self.search_box.text()
#wikipedia.search('nikola tesla')
try:
    result = wikipedia.summary(search_text, sentences=2)
    self.reference_box.insertPlainText(result+' ')
except Exception as e:
    self.message_box.clear()
    self.message_box.insertPlainText(str(e))

if __name__=='__main__':
    app = QApplication.instance()
    if app is None:
        app = QApplication(sys.argv)
    ex = App()
    sys.exit(app.exec_())

```

Explanation

The *search_box* is the place to put your search keyword. The result will be displayed on the *reference_box*. Below is the line of code that is used to show the two first sentences from Wikipedia based on the search keyword.

```

result = wikipedia.summary(search_text, sentences=2)
self.reference_box.insertPlainText(result+' ')

```

If an error occurs, it will be displayed on the *message_box*. *Disambiguation*, for instance, will cause error. The word 'option' may refer to *options (novel)*, *option (music magazine)*, *option (aircraft purchasing)* and many other things.

```

self.message_box.clear()
self.message_box.insertPlainText(str(e))

```

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