from PyQt5 import QtCore, QtGui, QtWidgets

from PyDictionary import PyDictionary as Eng\_dict

from urllib.request import urlopen

class Ui\_MainWindow(object):

def setupUi(self, MainWindow):

MainWindow.setObjectName("MainWindow")

MainWindow.resize(350, 550)

self.centralwidget = QtWidgets.QWidget(MainWindow)

self.centralwidget.setObjectName("centralwidget")

self.gridLayout = QtWidgets.QGridLayout(self.centralwidget)

self.gridLayout.setObjectName("gridLayout")

self.Title = QtWidgets.QLabel(self.centralwidget)

font = QtGui.QFont()

font.setFamily("Times New Roman")

font.setPointSize(20)

font.setBold(True)

font.setWeight(75)

self.Title.setFont(font)

self.Title.setAlignment(QtCore.Qt.AlignCenter)

self.Title.setObjectName("Title")

self.gridLayout.addWidget(self.Title, 0, 0, 1, 3)

self.Search\_Box = QtWidgets.QLineEdit(self.centralwidget)

self.Search\_Box.setText("")

self.Search\_Box.setAlignment(QtCore.Qt.AlignCenter)

self.Search\_Box.setObjectName("Search\_Box")

self.gridLayout.addWidget(self.Search\_Box, 2, 0, 1, 3)

self.Meaning\_button = QtWidgets.QPushButton(self.centralwidget)

self.Meaning\_button.setObjectName("Meaning\_button")

self.gridLayout.addWidget(self.Meaning\_button, 3, 0, 1, 1)

self.Meaning\_button.clicked.connect(self.clicked\_search\_meaning)

self.Synonym\_button = QtWidgets.QPushButton(self.centralwidget)

self.Synonym\_button.setObjectName("Synonym\_button")

self.gridLayout.addWidget(self.Synonym\_button, 3, 1, 1, 1)

self.Synonym\_button.clicked.connect(self.clicked\_search\_synonym)

self.Antonym\_button = QtWidgets.QPushButton(self.centralwidget)

self.Antonym\_button.setObjectName("Antonym\_button")

self.gridLayout.addWidget(self.Antonym\_button, 3, 2, 1, 1)

self.Antonym\_button.clicked.connect(self.clicked\_search\_antonym)

self.Enter\_Statement = QtWidgets.QLabel(self.centralwidget)

font = QtGui.QFont()

font.setPointSize(16)

self.Enter\_Statement.setFont(font)

self.Enter\_Statement.setAlignment(QtCore.Qt.AlignCenter)

self.Enter\_Statement.setObjectName("Enter\_Statement")

self.gridLayout.addWidget(self.Enter\_Statement, 1, 0, 1, 3)

self.scrollArea = QtWidgets.QScrollArea(self.centralwidget)

self.scrollArea.setWidgetResizable(True)

self.scrollArea.setObjectName("scrollArea")

self.scrollAreaWidgetContents = QtWidgets.QWidget()

self.scrollAreaWidgetContents.setGeometry(QtCore.QRect(0, 0, 320, 335))

self.scrollAreaWidgetContents.setObjectName("scrollAreaWidgetContents")

self.gridLayout\_2 = QtWidgets.QGridLayout(self.scrollAreaWidgetContents)

self.gridLayout\_2.setObjectName("gridLayout\_2")

self.Answer\_window = QtWidgets.QLabel(self.scrollAreaWidgetContents)

font = QtGui.QFont()

font.setPointSize(11)

self.Answer\_window.setFont(font)

self.Answer\_window.setText("")

self.Answer\_window.setWordWrap(True)

self.Answer\_window.setObjectName("Answer\_window")

self.gridLayout\_2.addWidget(self.Answer\_window, 0, 0, 1, 1)

self.scrollArea.setWidget(self.scrollAreaWidgetContents)

self.gridLayout.addWidget(self.scrollArea, 4, 0, 1, 3)

MainWindow.setCentralWidget(self.centralwidget)

self.retranslateUi(MainWindow)

QtCore.QMetaObject.connectSlotsByName(MainWindow)

def retranslateUi(self, MainWindow):

\_translate = QtCore.QCoreApplication.translate

MainWindow.setWindowTitle(\_translate("MainWindow", "Dictionary App"))

self.Synonym\_button.setText(\_translate("MainWindow", "Synonym"))

self.Title.setText(\_translate("MainWindow", "English Dictoinary"))

self.Meaning\_button.setText(\_translate("MainWindow", "Meaning"))

self.Enter\_Statement.setText(\_translate("MainWindow", "Enter Word:"))

self.Antonym\_button.setText(\_translate("MainWindow", "Antonym"))

def is\_internet\_available(self):

try:

urlopen('http://216.58.192.142', timeout=1)

return True

except:

return False

print(is\_internet\_available)

def clicked\_search\_meaning(self):

try:

if self.is\_internet\_available():

self.Eng\_meaning = Eng\_dict.meaning(self.Search\_Box.text().casefold())

self.mean = ""

for k, v in self.Eng\_meaning.items():

c = 0

if k == 'Noun' or k == 'Verb' or k == 'Adjective' or k == 'Adverb':

self.mean = self.mean + "\n" + k + ":\n"

for m in v:

c = str(int(c) + 1)

self.mean = self.mean + c + ". " + m.capitalize() + "\n"

self.Answer\_window.setText(self.mean)

print(self.mean)

print(self.Eng\_meaning)

else:

self.Answer\_window.setText("You are not connected to internet!")

except:

self.Answer\_window.setText("Your word is not present in the Dictionary!")

def clicked\_search\_synonym(self):

try:

if self.is\_internet\_available():

self.Eng\_synonym = Eng\_dict.synonym(self.Search\_Box.text().casefold())

self.syn = "Synonym:\n"

c = 0

for s in self.Eng\_synonym:

c = str(int(c) + 1)

self.syn = self.syn + c + ". " + s.capitalize() + "\n"

self.Answer\_window.setText(self.syn)

print(self.syn)

print(self.Eng\_synonym)

else:

self.Answer\_window.setText("You are not connected to internet!")

except:

self.Answer\_window.setText("Your word is not present in the Dictionary!")

def clicked\_search\_antonym(self):

try:

if self.is\_internet\_available():

self.Eng\_antonym = Eng\_dict.antonym(self.Search\_Box.text().casefold())

self.ant = "Antonym:\n"

c = 0

for a in self.Eng\_antonym:

c = str(int(c) + 1)

self.ant = self.ant + c + ". " + a.capitalize() + "\n"

self.Answer\_window.setText(self.ant)

print(self.ant)

print(self.Eng\_antonym)

else:

self.Answer\_window.setText("You are not connected to internet!")

except:

self.Answer\_window.setText("Your word is not present in the Dictionary!")

if \_\_name\_\_ == "\_\_main\_\_":

import sys

app = QtWidgets.QApplication(sys.argv)

MainWindow = QtWidgets.QMainWindow()

ui = Ui\_MainWindow()

ui.setupUi(MainWindow)

MainWindow.show()

sys.exit(app.exec\_())