from urllib.request import urlopen

from urllib.error import URLError

from bs4 import BeautifulSoup

from mainwin import Ui\_main

from bjt\_main import bjtmain

from igbt\_main import igbtmain

from mosfet\_main import mosfetmain

from scr\_main import scrmain

from tutorial1 import tutorial

from tutorialigbt import tutorial2

from tutorialmosfet import tutorial3

from tutorialscr import tutorial4

from PyQt5 import QtWidgets

from PyQt5.QtGui import QIcon

from PyQt5.QtWidgets import QMessageBox

import sys

#Ana Menünün classı

class mainwdw(QtWidgets.QMainWindow):

def \_\_init\_\_(self):

super(mainwdw,self).\_\_init\_\_()

self.ui = Ui\_main()

self.ui.setupUi(self)

self.ui.btn\_bjt.clicked.connect(self.gobjt)

self.ui.btn\_igbt.clicked.connect(self.goigbt)

self.ui.btn\_mosfet.clicked.connect(self.gomosfet)

self.ui.btn\_scr.clicked.connect(self.goscr)

def gobjt(self):

mainn.setCurrentIndex(mainn.currentIndex()+1)

def goigbt(self):

mainn.setCurrentIndex(mainn.currentIndex()+3)

def gomosfet(self):

mainn.setCurrentIndex(mainn.currentIndex()+5)

def goscr(self):

mainn.setCurrentIndex(mainn.currentIndex()+7)

#mosfet-jfet class

class mosfetx(QtWidgets.QMainWindow):

def \_\_init\_\_(self):

super(mosfetx,self).\_\_init\_\_()

self.ui=mosfetmain()

self.ui.setupUi(self)

self.ui.btn\_ara.clicked.connect(self.bulucu)

self.ui.btn\_temizle.clicked.connect(self.temiz)

self.ui.btn\_yardim.clicked.connect(self.gotuto)

self.ui.btn\_geri.clicked.connect(self.anamenu)

self.ui.yapibox.addItem("MOSFET")

self.ui.yapibox.addItem("JFET")

def temiz(self):

self.ui.liste3.clear()

self.ui.label\_Adet.setText("Adet: ")

self.ui.linePolarite\_2.setText("")

self.ui.linePd\_3.setText("")

self.ui.lineVds\_4.setText("")

self.ui.lineVgs\_5.setText("")

self.ui.lineVgsth\_6.setText("")

self.ui.lineId\_7.setText("")

self.ui.lineTj\_8.setText("")

self.ui.lineQg\_9.setText("")

self.ui.linetr\_10.setText("")

self.ui.lineCd\_11.setText("")

self.ui.lineRds\_12.setText("")

self.ui.line\_PaketTuru\_13.setText("")

def gotuto(self):

mainn.setCurrentIndex(mainn.currentIndex()+1)

def anamenu(self):

mainn.setCurrentIndex(mainn.currentIndex()-5)

def showError2(self):

msg=QMessageBox()

msg.setWindowTitle("Hata!!")

msg.setText("Girdiğiniz değerlere ait transistör bulunamadı.\nLütfen Tekrar deneyiniz.")

msg.setIcon(QMessageBox.Warning)

x=msg.exec\_()

def showError3(self):

msg=QMessageBox()

msg.setWindowTitle("Hata!!")

msg.setText("Lütfen internet bağlantınızı kontrol ediniz.")

msg.setIcon(QMessageBox.Warning)

x=msg.exec\_()

def bulucu(self):

try:

struct=self.ui.yapibox.currentText()

polt=self.ui.linePolarite\_2.text()

Pd=self.ui.linePd\_3.text()

Vds=self.ui.lineVds\_4.text()

Vgs=self.ui.lineVgs\_5.text()

Vgsth=self.ui.lineVgsth\_6.text()

Id=self.ui.lineId\_7.text()

Tj=self.ui.lineTj\_8.text()

Qg=self.ui.lineQg\_9.text()

Tr=self.ui.linetr\_10.text()

Cd=self.ui.lineCd\_11.text()

Rds=self.ui.lineRds\_12.text()

pack=self.ui.line\_PaketTuru\_13.text()

url = "https://alltransistors.com/mosfet/crsearch.php?struct="+struct+"&polarity="+polt+"&pd="+Pd+"+&uds="+Vds+"&ugs="+Vgs+"&ugsth="+Vgsth+"&id="+Id+"&tj="+Tj+"&qg="+Qg+"&fr="+Tr+"&cd="+Cd+"&rds="+Rds+"&caps="+pack

html = urlopen(url)

soup = BeautifulSoup(html, 'lxml')

transistors=soup.find\_all(target='\_blank')

str\_transistors = str(transistors)

text = BeautifulSoup(str\_transistors, "lxml").get\_text()

list1=list(text[21:].split(","))

while True:

try:

list1.remove("")

except ValueError:

break

self.ui.liste3.clear()

self.ui.liste3.addItems(list1)

self.ui.label\_Adet.setText(f'Adet: {str(len(list1))}')

if self.ui.label\_Adet.text()=="Adet: 0" :

self.showError2()

except URLError :

self.showError3()

return()

#igbt class

class igbtx(QtWidgets.QMainWindow):

def \_\_init\_\_(self):

super(igbtx,self).\_\_init\_\_()

self.ui = igbtmain()

self.ui.setupUi(self)

self.ui.btn\_ara.clicked.connect(self.bulucu)

self.ui.btn\_temizle.clicked.connect(self.temiz)

self.ui.btn\_tutorial.clicked.connect(self.gotuto)

self.ui.btn\_geri.clicked.connect(self.anamenu)

def temiz(self):

self.ui.liste2.clear()

self.ui.lbl\_adet.setText("Adet:")

self.ui.txt\_yapi.setText("")

self.ui.txt\_pc.setText("")

self.ui.txt\_vce.setText("")

self.ui.txt\_vcesat.setText("")

self.ui.txt\_veg.setText("")

self.ui.txt\_ic.setText("")

self.ui.txt\_tj.setText("")

self.ui.txt\_tr.setText("")

self.ui.txt\_cc.setText("")

self.ui.txt\_paket.setText("")

def gotuto(self):

mainn.setCurrentIndex(mainn.currentIndex()+1)

def anamenu(self):

mainn.setCurrentIndex(mainn.currentIndex()-3)

def showError2(self):

msg=QMessageBox()

msg.setWindowTitle("Hata!!")

msg.setText("Girdiğiniz değerlere ait transistör bulunamadı.\nLütfen Tekrar deneyiniz.")

msg.setIcon(QMessageBox.Warning)

x=msg.exec\_()

def showError3(self):

msg=QMessageBox()

msg.setWindowTitle("Hata!!")

msg.setText("Lütfen internet bağlantınızı kontrol ediniz.")

msg.setIcon(QMessageBox.Warning)

x=msg.exec\_()

def bulucu(self):

try:

polt=self.ui.txt\_yapi.text()

Pc=self.ui.txt\_pc.text()

Vce=self.ui.txt\_vce.text()

Vcesat=self.ui.txt\_vcesat.text()

Veg=self.ui.txt\_veg.text()

Ic=self.ui.txt\_ic.text()

Tj=self.ui.txt\_tj.text()

Tr=self.ui.txt\_tr.text()

Cc=self.ui.txt\_cc.text()

pack=self.ui.txt\_paket.text()

url = "https://alltransistors.com/igbt/crsearch.php?struct="+polt+"&pc="+Pc+"&uce="+Vce+"&ucesat="+Vcesat+"&ueg="+Veg+"&ic="+Ic+"&tj="+Tj+"&fr="+Tr+"&cc="+Cc+"&caps="+pack

html = urlopen(url)

soup = BeautifulSoup(html, 'lxml')

transistors=soup.find\_all(target='\_blank')

str\_transistors = str(transistors)

text = BeautifulSoup(str\_transistors, "lxml").get\_text()

list1=list(text[21:].split(","))

while True:

try:

list1.remove("")

except ValueError:

break

self.ui.liste2.clear()

self.ui.liste2.addItems(list1)

self.ui.lbl\_adet.setText(f'Adet: {str(len(list1))}')

if self.ui.lbl\_adet.text()=="Adet: 0" :

self.showError2()

except URLError :

self.showError3()

return()

#bjt class

class bjtx(QtWidgets.QMainWindow):

def \_\_init\_\_(self):

super(bjtx, self).\_\_init\_\_()

self.ui = bjtmain()

self.ui.setupUi(self)

self.ui.btn\_ara.clicked.connect(self.bulucu)

self.ui.btn\_tutorial.clicked.connect(self.gotuto)

self.ui.btn\_temizle.clicked.connect(self.temiz)

self.ui.btn\_geri.clicked.connect(self.anamenu)

def temiz(self):

self.ui.liste\_box.clear()

self.ui.txt\_adet.setText("Adet:")

self.ui.mat\_txt.setText("")

self.ui.yapi\_txt.setText("")

self.ui.pc\_txt.setText("")

self.ui.vcb\_txt.setText("")

self.ui.vce\_txt.setText("")

self.ui.veb\_txt.setText("")

self.ui.ic\_txt.setText("")

self.ui.tj\_txt.setText("")

self.ui.ft\_txt.setText("")

self.ui.cc\_txt.setText("")

self.ui.hfe\_txt.setText("")

self.ui.caps\_txt.setText("")

self.ui.syf\_edit.setText("")

def anamenu(self):

mainn.setCurrentIndex(mainn.currentIndex()-1)

def gotuto(self):

mainn.setCurrentIndex(mainn.currentIndex()+1)

def showError(self):

msg=QMessageBox()

msg.setWindowTitle("Hata!!")

msg.setText("Lütfen sayfa sayısına geçerli bir rakam giriniz!!!")

msg.setIcon(QMessageBox.Warning)

x=msg.exec\_()

def showError2(self):

msg=QMessageBox()

msg.setWindowTitle("Hata!!")

msg.setText("Girdiğiniz değerlere ait transistör bulunamadı.\nLütfen Tekrar deneyiniz.")

msg.setIcon(QMessageBox.Warning)

x=msg.exec\_()

def showError3(self):

msg=QMessageBox()

msg.setWindowTitle("Hata!!")

msg.setText("Lütfen internet bağlantınızı kontrol ediniz.")

msg.setIcon(QMessageBox.Warning)

x=msg.exec\_()

def bulucu(self):

try:

mat=self.ui.mat\_txt.text()

polt=self.ui.yapi\_txt.text()

Pc=self.ui.pc\_txt.text()

Vcb=self.ui.vcb\_txt.text()

Vce=self.ui.vce\_txt.text()

Veb=self.ui.veb\_txt.text()

Ic=self.ui.ic\_txt.text()

Tj=self.ui.tj\_txt.text()

Ft=self.ui.ft\_txt.text()

Cc=self.ui.cc\_txt.text()

hFE=self.ui.hfe\_txt.text()

pack=self.ui.caps\_txt.text()

syf=self.ui.syf\_edit.text()

url = "https://alltransistors.com/crsearch.php?mat="+mat+"&struct="+polt+"&pc="+Pc+"&ucb="+Vcb+"&uce="+Vce+"&ueb="+Veb+"&ic="+Ic+"&tj="+Tj+"&ft="+Ft+"&cc="+Cc+"&hfe="+hFE+"&caps="+pack+"&page="+str(int(syf)-1)

html = urlopen(url)

soup = BeautifulSoup(html, 'lxml')

transistors=soup.find\_all(target='\_blank')

str\_transistors = str(transistors)

cleantext = BeautifulSoup(str\_transistors, "lxml").get\_text()

list1=list(cleantext[21:].split(","))

while True:

try:

list1.remove("")

except ValueError:

break

self.ui.liste\_box.clear()

self.ui.liste\_box.addItems(list1)

self.ui.txt\_adet.setText(f'Adet: {str(len(list1))}')

if self.ui.txt\_adet.text()=="Adet: 0" :

self.showError2()

except URLError :

self.showError3()

except ValueError:

self.showError()

return()

#scr-triac class

class scrx(QtWidgets.QMainWindow):

def \_\_init\_\_(self):

super(scrx,self).\_\_init\_\_()

self.ui=scrmain()

self.ui.setupUi(self)

self.ui.btn\_ara.clicked.connect(self.bulucu)

self.ui.btn\_temizle.clicked.connect(self.temiz)

self.ui.btn\_yardim.clicked.connect(self.gotuto)

self.ui.btn\_geri.clicked.connect(self.anamenu)

def temiz(self):

self.ui.liste4.clear()

self.ui.label\_Adet.setText("Adet: ")

self.ui.lineEdit\_Pgm1.setText("")

self.ui.lineEdit\_Pgm2.setText("")

self.ui.lineEdit\_Vdrm1.setText("")

self.ui.lineEdit\_Vdrm2.setText("")

self.ui.lineEdit\_Itavr1.setText("")

self.ui.lineEdit\_Itavr2.setText("")

self.ui.lineEdit\_Itrms1.setText("")

self.ui.lineEdit\_Itrms2.setText("")

self.ui.lineEdit\_Itsm1.setText("")

self.ui.lineEdit\_Itsm2.setText("")

self.ui.lineEdit\_dldt1.setText("")

self.ui.lineEdit\_dldt2.setText("")

self.ui.lineEdit\_dVdt1.setText("")

self.ui.lineEdit\_dVdt2.setText("")

self.ui.lineEdit\_TstgTj.setText("")

self.ui.lineEdit\_Rthja.setText("")

self.ui.lineEdit\_Rthjc.setText("")

self.ui.lineEdit\_Vgt.setText("")

self.ui.lineEdit\_Vtm.setText("")

self.ui.lineEdit\_Igt.setText("")

self.ui.lineEdit\_Ih.setText("")

self.ui.lineEdit\_Paketturu.setText("")

def gotuto(self):

mainn.setCurrentIndex(mainn.currentIndex()+1)

def anamenu(self):

mainn.setCurrentIndex(mainn.currentIndex()-7)

def showError2(self):

msg=QMessageBox()

msg.setWindowTitle("Hata!!")

msg.setText("Girdiğiniz değerlere ait transistör bulunamadı.\nLütfen Tekrar deneyiniz.")

msg.setIcon(QMessageBox.Warning)

x=msg.exec\_()

def showError3(self):

msg=QMessageBox()

msg.setWindowTitle("Hata!!")

msg.setText("Lütfen internet bağlantınızı kontrol ediniz.")

msg.setIcon(QMessageBox.Warning)

x=msg.exec\_()

def bulucu(self):

try:

type1=self.ui.box\_type1.currentText()

Pgm=self.ui.lineEdit\_Pgm1.text()

Pgm\_max=self.ui.lineEdit\_Pgm2.text()

Vdrm=self.ui.lineEdit\_Vdrm1.text()

Vdrm\_max=self.ui.lineEdit\_Vdrm2.text()

Itavr=self.ui.lineEdit\_Itavr1.text()

Itavr\_max=self.ui.lineEdit\_Itavr2.text()

Itrms=self.ui.lineEdit\_Itrms1.text()

Itrms\_max=self.ui.lineEdit\_Itrms2.text()

Itsm=self.ui.lineEdit\_Itsm1.text()

Itsm\_max=self.ui.lineEdit\_Itsm2.text()

dIdt=self.ui.lineEdit\_dldt1.text()

dIdt\_max=self.ui.lineEdit\_dldt2.text()

dVdt=self.ui.lineEdit\_dVdt1.text()

dVdt\_max=self.ui.lineEdit\_dVdt2.text()

Tj=self.ui.lineEdit\_TstgTj.text()

Rth\_ja=self.ui.lineEdit\_Rthja.text()

Rth\_jc=self.ui.lineEdit\_Rthjc.text()

Vgt=self.ui.lineEdit\_Vgt.text()

Vtm=self.ui.lineEdit\_Vtm.text()

Igt=self.ui.lineEdit\_Igt.text()

Ih=self.ui.lineEdit\_Ih.text()

pack=self.ui.lineEdit\_Paketturu.text()

url = "https://alltransistors.com/scr/cross-reference.php?type="+type1+"&pgm="+Pgm+"&pgm\_max="+Pgm\_max+"&vdrm="+Vdrm+"&vdrm\_max="+Vdrm\_max+"&itavr="+Itavr+"&itavr\_max="+Itavr\_max+"+&itrms="+Itrms+"&itrms\_max="+Itrms\_max+"&itsm="+Itsm+"&itsm\_max="+Itsm\_max+"&didt="+dIdt+"&didt\_max="+dIdt\_max+"&dvdt="+dVdt+"&dvdt\_max="+dVdt\_max+"&tj="+Tj+"&rja="+Rth\_ja+"&rjc="+Rth\_jc+"&vgt="+Vgt+"&vtm="+Vtm+"&igt="+Igt+"&i\_hold="+Ih+"&caps="+pack

html = urlopen(url)

soup = BeautifulSoup(html, 'lxml')

transistors=soup.find\_all('a',href=True)

str\_transistors = str(transistors)

text = BeautifulSoup(str\_transistors, "lxml").get\_text()

n=len(text)

list1=list(text[70:n-410].split(","))

while True:

try:

list1.remove("")

except ValueError:

break

self.ui.liste4.clear()

self.ui.liste4.addItems(list1)

self.ui.label\_Adet.setText(f'Adet: {str(len(list1))}')

if self.ui.label\_Adet.text()=="Adet: 0" :

self.showError2()

except URLError :

self.showError3()

return()

#bjt yardım class

class tuto(QtWidgets.QMainWindow):

def \_\_init\_\_(self):

super(tuto,self).\_\_init\_\_()

self.ui=tutorial()

self.ui.setupUi(self)

self.ui.btn\_geri.clicked.connect(self.gobjt)

def gobjt(self):

mainn.setCurrentIndex(mainn.currentIndex()-1)

#igbt yardım class

class tuto2(QtWidgets.QMainWindow):

def \_\_init\_\_(self):

super(tuto2,self).\_\_init\_\_()

self.ui=tutorial2()

self.ui.setupUi(self)

self.ui.btn\_geri.clicked.connect(self.goigbt)

def goigbt(self):

mainn.setCurrentIndex(mainn.currentIndex()-1)

#mosfet-jfet yardım class

class tuto3(QtWidgets.QMainWindow):

def \_\_init\_\_(self):

super(tuto3,self).\_\_init\_\_()

self.ui=tutorial3()

self.ui.setupUi(self)

self.ui.btn\_geri.clicked.connect(self.gomosfet)

def gomosfet(self):

mainn.setCurrentIndex(mainn.currentIndex()-1)

#scr-triac yardım class

class tuto4(QtWidgets.QMainWindow):

def \_\_init\_\_(self):

super(tuto4,self).\_\_init\_\_()

self.ui=tutorial4()

self.ui.setupUi(self)

self.ui.btn\_geri.clicked.connect(self.goscr)

def goscr(self):

mainn.setCurrentIndex(mainn.currentIndex()-1)

#Uygulama kodları

application =QtWidgets.QApplication(sys.argv)

mainn=QtWidgets.QStackedWidget()

tuto=tuto()

tuto2=tuto2()

tuto3=tuto3()

tuto4=tuto4()

mainwdw=mainwdw()

bjtx=bjtx()

igbtx=igbtx()

mosfetx=mosfetx()

scrx=scrx()

mainn.addWidget(mainwdw)

mainn.addWidget(bjtx)

mainn.addWidget(tuto)

mainn.addWidget(igbtx)

mainn.addWidget(tuto2)

mainn.addWidget(mosfetx)

mainn.addWidget(tuto3)

mainn.addWidget(scrx)

mainn.addWidget(tuto4)

mainn.setWindowIcon(QIcon("t.png"))

mainn.resize(610, 630)

mainn.setWindowTitle('Muadil Transistör Bulucu')

mainn.show()

try:

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

except:

print('Çıkış Yapılıyor')