# GUI of library management System

from tkinter import \*

import backend

1.aa # This functionality helps to build the window graphic frame and assigning functionality to button inorder to work accordingly.

def get\_selected\_row(event):

global selected\_tuple

index =list1.curselection()[0]

selected\_tuple=list1.get(index)

e1.delete(0,END)

e1.insert(END,selected\_tuple[1])

e2.delete(0,END)

e2.insert(END,selected\_tuple[2])

e3.delete(0,END)

e3.insert(END,selected\_tuple[3])

e4.delete(0,END)

e4.insert(END,selected\_tuple[4])

# 1.bb This are the different functions that execute different query

def view\_command():

list1.delete(0,END)

for row in backend.view():

list1.insert(END,row)

def search\_command():

list1.delete(0,END)

for row in backend.search(title\_text.get(),author\_text.get(),year\_text.get(),isbn\_text.get()):

list1.insert(END,row)

def add\_command():

backend.insert(title\_text.get(),author\_text.get(),year\_text.get(),isbn\_text.get())

list1.delete(0,END)

list1.insert(END,(title\_text.get(),author\_text.get(),year\_text.get(),isbn\_text.get()))

def del\_command():

backend.delete(selected\_tuple[0])

def update\_command():

backend.update(selected\_tuple[0],title\_text.get(),author\_text.get(),year\_text.get(),isbn\_text.get())

window=Tk()

window.wm\_title("BookStore")

# 1.cc designing a window with its specific functionality with graphics

l1=Label(window,text="Title")

l1.grid(row=0,column=0)

l2=Label(window,text="Author")

l2.grid(row=0,column=2)

l3=Label(window,text="Year")

l3.grid(row=1,column=0)

l4=Label(window,text="ISBN")

l4.grid(row=1,column=2)

title\_text=StringVar()

e1=Entry(window,textvariable=title\_text)

e1.grid(row=0,column=1)

author\_text=StringVar()

e2=Entry(window,textvariable=author\_text)

e2.grid(row=0,column=3)

year\_text=StringVar()

e3=Entry(window,textvariable=year\_text)

e3.grid(row=1,column=1)

isbn\_text=StringVar()

e4=Entry(window,textvariable=isbn\_text)

e4.grid(row=1,column=3)

list1=Listbox(window, height=6,width=35)

list1.grid(row=2,column=0,rowspan=6,columnspan=2)

sb1=Scrollbar(window)

sb1.grid(row=2,column=2,rowspan=6)

list1.configure(yscrollcommand=sb1.set)

sb1.configure(command=list1.yview)

list1.bind('<<ListboxSelect>>',get\_selected\_row)

b1=Button(window,text="View all",width=12,command=view\_command)

b1.grid(row=2,column=3)

b2=Button(window,text="Search Entry",width=12,command=search\_command)

b2.grid(row=3,column=3)

b3=Button(window,text="Add Entry",width =12,command=add\_command)

b3.grid(row=4,column=3)

b4=Button(window,text="Update selected",width =12,command=update\_command)

b4.grid(row=5,column=3)

b5=Button(window,text="Delete selected",width =12,command=del\_command)

b5.grid(row=6,column=3)

b6=Button(window,text="Close",width =12, command=window.destroy)

b6.grid(row=7,column=3)

window.mainloop()