

MACHINE PROBLEM

7

Transaction Processing System

<Justine Guillermo>
 <W22>
 <Date>

Create a Python application that will serve as a simple Kiosk on a a given Library system.

SOURCE CODE:

```
machineproblem7.py ×
import tkinter font as tkFont
from tkinter import *
from tkinter import ttk
import salite3
              def __init__(self):
                        super(Root, self).__init__()
self.title("Library System Kiosk")
self.fontFam = tkFont.Font(family = "Century Gothic", size = 12)
                      Self..fonFram erroru.ron(gramily = Century source, $12e = 12
self.minsize(660, 300)
self.labelFrame-LabelFrame(self, text = "Library System")
self.labelFrame.config(font = self.fontFam)
self.labelFrame.grid(colum = 0, row = 1, padx = 20, pady = 20)
self.resizable(False, False)
                        self.objects()
                                      Conn = sqlite3.connect("listofbooks.db")
cursor = conn.cursor()
cursor = conn.cursor()
cursor = conn.cursor()
cursor = conn.cursor()
cursor.execute("CREATE TABLE IF NOT EXISTS 'book' (mem_id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, booktitle TEXT, booksauthor TEXT, bookyear TEXT, location TEXT)")
cursor.execute("SELECT * FROM 'book'")
                                      curson.execute("CREATE TABLE IF NOT EXISTS' book' (mem_id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, bookkitle TEXT, bookwarthor TEXT, bookyear TEXT, location TEXT)") curson.execute("SELECT * FRON' book' (booktitle, bookauthor, bookyear, location) VALUES('In Search of Lost Time', 'Marcel Proust', '1913', 'Ground Floor')") curson.execute("INSERT INTO 'book' (booktitle, bookauthor, bookyear, location) VALUES('Ulysses', 'James Joyce', '1922', 'Second Floor')") curson.execute("INSERT INTO 'book' (booktitle, bookauthor, bookyear, location) VALUES('Woby Dick', 'Herman Melville', '1851', 'Second Floor')") curson.execute("INSERT INTO 'book' (booktitle, bookauthor, bookyear, location) VALUES('Moby Dick', 'Herman Melville', '1851', 'Second Floor')") curson.execute("INSERT INTO 'book (booktitle, bookauthor, bookyear, location) VALUES('The Divine Comedy', 'Dante Allgiblerl', '1472', 'Ground Floor')") curson.execute("INSERT INTO 'book (booktitle, bookauthor, bookyear, location) VALUES('The Daventures of Huckleberry Finn', 'Mark Twain', '1884', 'Second Floor')") curson.execute("INSERT INTO 'book (booktitle, bookauthor, bookyear, location) VALUES('The Daventures of Huckleberry Finn', 'Mark Twain', '1884', 'Second Floor')") curson.execute("INSERT INTO 'book (booktitle, bookauthor, bookyear, location) VALUES('Never Let Ne Go', 'Kazuo Ishiguro', '2085', 'Ground Floor')") curson.execute("INSERT INTO 'book (booktitle, bookauthor, bookyear, location) VALUES('Never Let Ne Go', 'Kazuo Ishiguro', '2085', 'Ground Floor')") curson.execute("INSERT INTO 'book (booktitle, bookauthor, bookyear, location) VALUES('Persaure', 'Precival Everett', '2081', 'Second Floor')") curson.execute("INSERT INTO 'book (booktitle, bookauthor, bookyear, location) VALUES('Deverything in the Dark', 'Gary Indiana', '2083', 'Third Floor')") curson.execute("INSERT INTO 'book (booktitle, bookauthor, bookyear, location) VALUES('Deverything in the Dark', 'Gary Indiana', '2083', 'Thourth Floor')") curson.execute("INSERT INTO 'book (booktitle, bookauthor, bookyear, lo
                                      cursor.execute("SELECT * FROM `book` ORDER BY `booktitle` ASC")
fetch = cursor.fetchall()
                                               cursor.close()
                                def Search():
                                                 if SEARCH.get() != "":
                                                       tree.delete(*tree.get_children())
conn = sqlite3.connect("listofbooks.db")
                                                            cursor = conn.cursor()
cursorsecute("SELECT * FROM book WHERE booktitle LIKE ? OR bookauthor LIKE ?", ('%'+str(SEARCH.get())+'%', '%'+str(SEARCH.get())+'%'))
                                                                         tree.insert('', 'end', values=(data))
                                def Reset():
                                       conn = sqlite3.connect("listofbooks.db")
                                              cursor = conn.cursor()
tree.delete(*tree.get_children())
                                              for data in fetch:
                                        cursor.close()
conn.close()
                              SEARCH = Stringar()

label[self.labelFrame, text='Search: ', font=("Courier", 15)).grid(row=2, column=0, pady = 10, columnspan = 2)

Entry(self.labelFrame, width=25, font=("Courier", 15), textvariable=SEARCH).grid(row=2,column=2, pady = 10, columnspan = 2)

Button(self.labelFrame, text='Search', font=("Courier", 10), command = Search).grid(row=2,column=5, pady = 10)

Button(self.labelFrame, text='Reset', font=("Courier", 10), command = Reset).grid(row=2,column=6, pady = 10)

tree = ttk.Treeview(self.labelFrame, columns = header, show = "headings", selectmode="extended",)

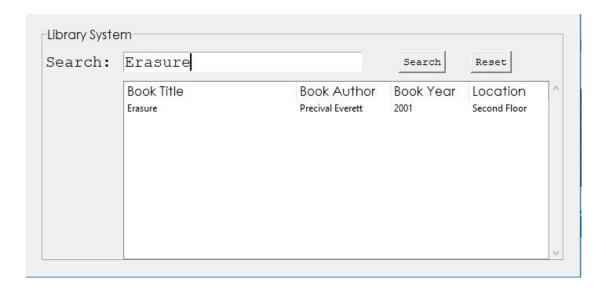
vsb = ttk.Scrollbar(self.labelFrame, orient = "vertical", command = tree.yview)
                                 tree.configure(yscrollcommand=vsb.set)
                               style = ttk.Style()
style.configure("Treeview.Heading",font = self.fontFam)
                             style.configure("Treeview.Heading",font = self.fontFam)
tree.gpid(column = 2, row = 3, sticky='nsew', columnspan = 6)
vsb.grid(column=8, row=3, sticky='ns')
tree.heading('Book Title', text='Book Title",anchor=W)
tree.heading('Book Author', text='Book Author',anchor=W)
tree.heading('Book Year', text='Book Year',anchor=W)
tree.heading('Location', text='Location',anchor=W)
tree.column('#1',minwidth=0, width=0)
tree.column('#2', minwidth=0, width=120)
tree.column('#3', minwidth=0, width=120)
tree.column('#4', minwidth=0, width=120)
tree.column('#4', minwidth=0, width=120)
                               tree.column('#4', minwidth=0, width=100)
tree.column('#5', minwidth=0, width=100)
```

```
100 header = ['ID','Book Title', 'Book Author', 'Book Year', 'Location']
101
102 if __name__ == '__main__':
103     root = Root()
104     root.mainloop()
```

OUTPUT:



SEARCH BUTTON





RESET BUTTON



Search:	The		Search	Reset	
	Book Title	Book Author	Book Year	Location	^
	A Game of Thrones	George R.R Martin	1996	Fourth Floor	
	Do Everything in the Dark	Gary Indiana	2003	Third Floor	
	Domino Falls	Steven Barnes	2013	Ground Floor	
	Dragon Teeth	Michael Crichton	2017	Second Floor	
	Erasure	Precival Everett	2001	Second Floor	
	Hamlet	William Shakespeare	1603	Third Floor	
	In Search of Lost Time	Marcel Proust	1913	Ground Floor	
	Moby Dick	Herman Melville	1851	Second Floor	
	Never Let Me Go	Kazuo Ishiguro	2005	Ground Floor	
	Platform	Michel Houellebecg	2002	Ground Floor	