



L O V E L Y
P R O F E S S I O N A L
U N I V E R S I T Y

REPORT ON BOOK MANAGEMENT SYSTEM

WORKING CODE AND IMAGE OF GUI

PROJECT NUMBER: 19

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CODE:

HOME PAGE:

```
from tkinter import *
from PIL import Image, ImageTk
root=Tk()
root.geometry('800x600+160+140')
root.title('BOOK MANAGEMENT SYSTEM')
mg=Image.open("D:/Arul murugan/python/x.jpg")
mg1=mg.resize((800,600))
img=ImageTk.PhotoImage(mg1)
xx=Label(image=img)
xx.pack()

def register():
    root.destroy()
    import register

def signup():
    root. destroy()
    import signup

Label=Label(root,text="LIBRARY MANAGEMENT SYSTEM",font=('Courier 20'),foreground="red")
Label.pack(side=TOP)

a=Button(root,text="SIGN UP",height= 2, width=9,command=signup)
a.pack()
a.place(x=360, y=210)

b=Button(root,text="REGISTER",height= 2, width=9,command=register)
b.pack()
b.place(x=360, y=290)
```

SIGN UP PAGE:

```
import tkinter
from tkinter import *
from tkinter import messagebox as ms
from PIL import Image, ImageTk
import mysql.connector as mc
window=Tk()
window.geometry('800x600+160+140')
mg=Image.open("D:/Arul murugan/python/x2.jpg")
mg1=mg.resize((800,600))
img=ImageTk.PhotoImage(mg1)
xx=Label(image=img)
xx.pack()
window.title('REGISTER')
width=700
height=500
x=60
y=40
window.geometry('800x600+160+140')
def home():
    window.destroy()
    import home
def signup():
    a,b=username.get(),password.get()
    mydb = mc.connect(host="localhost",user="root",passwd="1234",database="lib")
    c = mydb.cursor()
    print(a,b)
    if a != "" and b!="":
        # Find the correct user
        find_user = (f'SELECT * FROM user WHERE user = %s and password = %s')
        c.execute(find_user, [(a), (b)])
        result = c.fetchall()
        if result:
            window.destroy()
```

```

import LMS

else:
    ms.showerror('Oops!', 'Check the username or password again.')

else:
    ms.showerror('Error!', 'Please Enter the details.')

mydb.close()

username=Label(window,text="Username : ",bd=2,font=('Courier 13')).place(x=225,y=170)

username = StringVar()

password=Label(window,text="Password : ",bd=2,font=('Courier 13')).place(x=225,y=230)

password = StringVar()

e1=Entry(window,textvariable=username,width=30).place(x=350,y=170)

e2=Entry(window,textvariable=password,width=30).place(x=350,y=230)

a=Button(window,text="SIGN UP",height= 2, width=15,command=signup)

a.pack()

a.place(x=340,y=290)

b=Button(window,text="HOME",height= 2, width=15, command=home)

b.pack()

b.place(x=30,y=30)

window.mainloop()

```

REGISTER PAGE:

```

import tkinter

from tkinter import *

from tkinter import messagebox as ms

from PIL import Image, ImageTk

import mysql.connector as mc


window=Tk()

window.geometry('800x600+160+140')

mg=Image.open("D:/Arul murugan/python/library photo.jpg")

mg1=mg.resize((800,600))

img=ImageTk.PhotoImage(mg1)

xx=Label(image=img)

xx.pack()

window.title('Register')

width=700

```

```

height=500

x=60

y=40

window.geometry('800x600+160+140')

def new():

    a3,b3,c3,d3,p1=a2.get(),b2.get(),c2.get(),d2.get(),p.get()

    mydb = mc.connect(host="localhost",user="root",passwd="1234",database="lib")

    c = mydb.cursor()

    print(a,b)

    if a3 != " and b3!= " and c3 != " and d3!= " and e3 != ":":

        # Find the correct user

        #print(a3,b3,c3,d3,p3)

        find_user = (f"insert into user values(%s,%s,%s,%s,%s);")

        c.execute(find_user, [(a3), (b3), (c3), (d3), (p1)])

        mydb.commit()

        mydb.close()

        window.destroy()

    else:

        ms.showerror('Error!', 'Please Enter the details.')

import signup

def home():

    window.destroy()

    import home

    First_name=Label(window,text="First Name:",bd=2,font=('Courier 13')).place(x=225,y=150)

    Last_name=Label(window,text="Last Name:",bd=2,font=('Courier 13')).place(x=235,y=200)

    reg_no=Label(window,text="Reg_number:",bd=2,font=('Courier 13')).place(x=225,y=250)

    user_id=Label(window,text="user id:",bd=2,font=('Courier 13')).place(x=250,y=300)

    passw=Label(window,text="Password:",bd=2,font=('Courier 13')).place(x=240,y=350)

    a2,b2,c2,d2,p=StringVar(),StringVar(),StringVar(),StringVar(),StringVar()

    e1=Entry(window,textvariable=a2,width=30,bd=3).place(x=350,y=150)

    e2=Entry(window,textvariable=b2,width=30,bd=3).place(x=350,y=200)

    e3=Entry(window,textvariable=c2,width=30,bd=3).place(x=350,y=250)

    e4=Entry(window,textvariable=d2,width=30,bd=3).place(x=350,y=300)

```

```

e5=Entry(window,textvariable=p,width=30,bd=3).place(x=350,y=350)

a=Button(window,text="REGISTER",height= 2, width=9,command=new)

b=Button(window,text="HOME",height= 2, width=9,command=home)

a.pack()

a.place(x=350, y=400)

b.pack()

b.place(x=30, y=30)

window.mainloop()

```

LMS PAGE:

```

import tkinter

from tkinter import *

from tkinter import messagebox

from PIL import Image, ImageTk

window=Tk()

window.geometry('800x600+160+140')

mg=Image.open("D:/Arul murugan/python/org image.jpg")

mg1=mg.resize((800,600))

img=ImageTk.PhotoImage(mg1)

xx=Label(image=img)

xx.pack()

window.title('LMS')

width=700

height=500

x=60

y=40

window.geometry('800x600+160+140')

def home():

    window.destroy()

    import home

def back():

    window.destroy()

    import signup

def avail():

    window.destroy()

    import availablebooks

```

```

def issue():

    window.destroy()

import issuebooks

def returnbooks():

    window.destroy()

import returnbooks

a=Button(window,text="HOME",height= 2, width=9,command=home)

a.pack()

a.place(x=30, y=30)

b=Button(window,text="BACK",height= 2, width=9,command=back)

b.pack()

b.place(x=130, y=30)

c=Button(window,text="AVAILABLE BOOKS",height= 3, width=20,bd=3,command=avail)

c.pack()

c.place(x=340,y=200)

d=Button(window,text="RETURN BOOK",height= 3, width=20,bd=3,command=returnbooks)

d.pack()

d.place(x=340,y=280)

e=Button(window,text="ISSUE BOOK",height= 3, width=20,bd=3,command=issue)

e.pack()

e.place(x=340,y=360)

window.mainloop()

```

AVAILABILITY PAGE:

```

import tkinter

from tkinter import *

from tkinter import messagebox

from PIL import Image, ImageTk

from tkinter import ttk

import mysql.connector as mc

win=Tk()

win.title('AVAILABILITY')

win.geometry('800x600+160+140')

style = ttk.Style()

style.theme_use('clam')

mydb = mc.connect(host="localhost",user="root",password="1234",database="lib")

```

```

c = mydb.cursor()

c.execute("select * from ab where reg_no is NULL;")

lst=[i for i in c]

print(lst)

mydb.close()

tree = ttk.Treeview(win, column=( " book_id","book_name","author"), show='headings', height=5)

tree.column("# 1", width=100, anchor=CENTER)

tree.heading("# 1", text="book_id")

tree.column("# 2", anchor=CENTER)

tree.heading("# 2", text="book_name ")

tree.column("# 3", anchor=CENTER)

tree.heading("# 3", text="author")

for i in range(len(lst)):

    tree.insert("", 'end', text="1", values=lst[i])

tree.pack()

win.mainloop()

```

ISSUE BOOK PAGE:

```

from tkinter import *

from PIL import Image, ImageTk

from tkinter import messagebox as ms

import mysql.connector as mc

import time

root=Tk()

root.title('issue book')

root.geometry('800x600+160+140')

mg=Image.open("D:/Arul murugan/python/org image.jpg")

mg1=mg.resize((800,600))

img=ImageTk.PhotoImage(mg1)

xx=Label(image=img)

xx.pack()

def home():

    root.destroy()

    import home

def back():

    root.destroy()

```

```

import LMS

def new():
    root.destroy()

    import newpage

def issued_b():

    mydb = mc.connect(host="localhost",user="root",password="1234",database="lib")
    c = mydb.cursor()
    if book_id.get() != "":
        a1 = n_reg.get()
        b1 = book_id.get()
        c.execute(f'SELECT * FROM ab WHERE book_id = "{b1}" ')
        if c.fetchall() :
            dt=list(time.localtime())[3]
            dt=[str(i) for i in dt]
            dt="-".join(dt)
            c.execute(f"insert into ss_ret values('{a1}', '{b1}', '{dt}', NULL, 'pending');")
            c.execute(f"update ab set reg_no='{a1}' where book_id='{b1}';")
            mydb.commit()
            ms.showinfo('book issued successfully')
        else:
            ms.showerror("Error!", 'The book is not available or invalid username.')
    else:
        ms.showerror('Error!', 'Please Enter the details.')
    mydb.close()

a=Button(root,text="HOME",height= 2, width=9,command=home)
a.pack()
a.place(x=30, y=30)
b=Button(root,text="BACK",height= 2, width=9,command=back)
b.pack()
b.place(x=130,y=30)
Book_id=Label(root,text="Book Id:",bd=2,font=('Courier 13')).place(x=225,y=150)
Reg_No=Label(root,text="Reg.No:",bd=2,font=('Courier 13')).place(x=235,y=200)
n_reg = StringVar()
book_id = StringVar()
e1=Entry(root,textvariable=n_reg,width=30,bd=3).place(x=350,y=150)

```

```

e2=Entry(root,textvariable=book_id,width=30,bd=3).place(x=350,y=200)

a=Button(root,text="ISSUE",height= 2, width=9,command=issued_b)

a.pack()

a.place(x=350, y=400)

root.mainloop()

```

RETURN BOOK PAGE:

```

from tkinter import *

from PIL import Image, ImageTk

import time

import mysql.connector as mc

from tkinter import messagebox as ms

root=Tk()

root.title('return book')

root.geometry('800x600+160+140')

mg=Image.open("D:/Arul murugan/python/org image.jpg")

mg1=mg.resize((800,600))

img=ImageTk.PhotoImage(mg1)

xx=Label(image=img)

xx.pack()

def home():

    root.destroy()

    import home

def back():

    root.destroy()

    import LMS

def new():

    root.destroy()

    import newpage

def return_b():

    mydb = mc.connect(host="localhost",user="root",password="1234",database="lib")

    c = mydb.cursor()

    if book_id.get() != "" and n_reg.get()!="":

        a1 = n_reg.get()

```

```

b1 = book_id.get()

c.execute(f'SELECT * FROM ab WHERE book_id = "{b1}" ')
if c.fetchall() :
    dt=list(time.localtime())[:3]
    dt=[str(i) for i in dt]
    dt="-".join(dt)

    c.execute(f"update ss_ret set return_date='{dt}' where book_id='{b1}';")
    c.execute(f"update ss_ret set status='returned' where book_id='{b1}';")
    c.execute(f"update ab set reg_no=NULL where book_id='{b1}';")
    mydb.commit()

    ms.showinfo('book issued successfully')

else:
    ms.showerror("Error!","The book is not available or invalid username.")

else:
    ms.showerror('Error!','Please Enter the details.')

mydb.close()

a=Button(root,text="HOME",height= 2, width=9,command=home)
a.pack()
a.place(x=30, y=30)

b=Button(root,text="BACK",height= 2, width=9,command=back)
b.pack()
b.place(x=130,y=30)

Book_id=Label(root,text="Book Id:",bd=2,font=('Courier 13')).place(x=225,y=150)
Reg_No=Label(root,text="Reg.No:",bd=2,font=('Courier 13')).place(x=235,y=200)

n_reg = StringVar()
book_id = StringVar()

e1=Entry(root,textvariable=n_reg,width=30,bd=3).place(x=350,y=150)
e2=Entry(root,textvariable=book_id,width=30,bd=3).place(x=350,y=200)

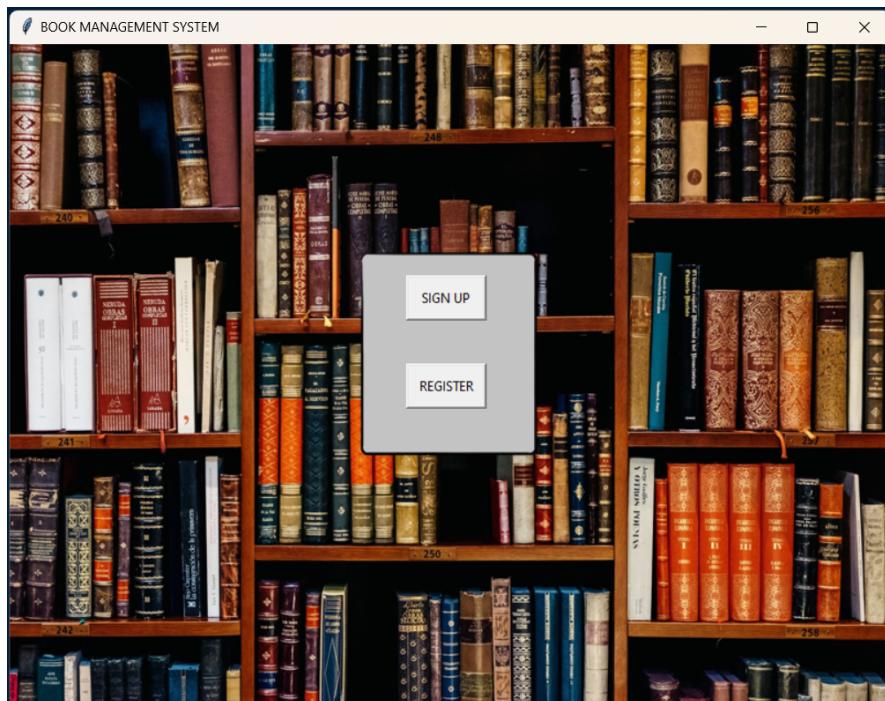
a=Button(root,text="RETURN",height= 2, width=9,command=return_b)
a.pack()
a.place(x=350, y=400)

root.mainloop()

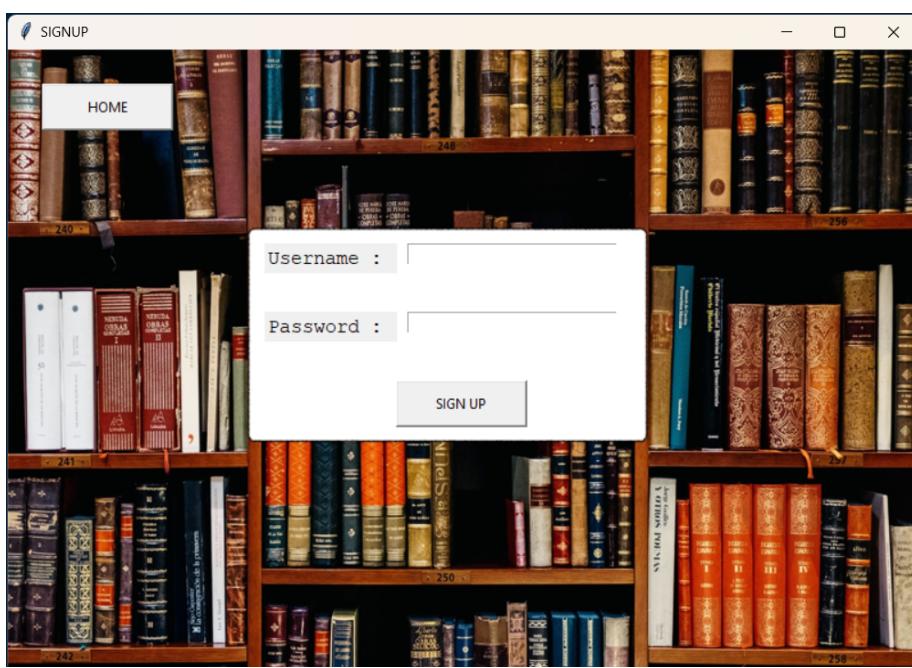
```

GUI IMAGES OF PROJECT:

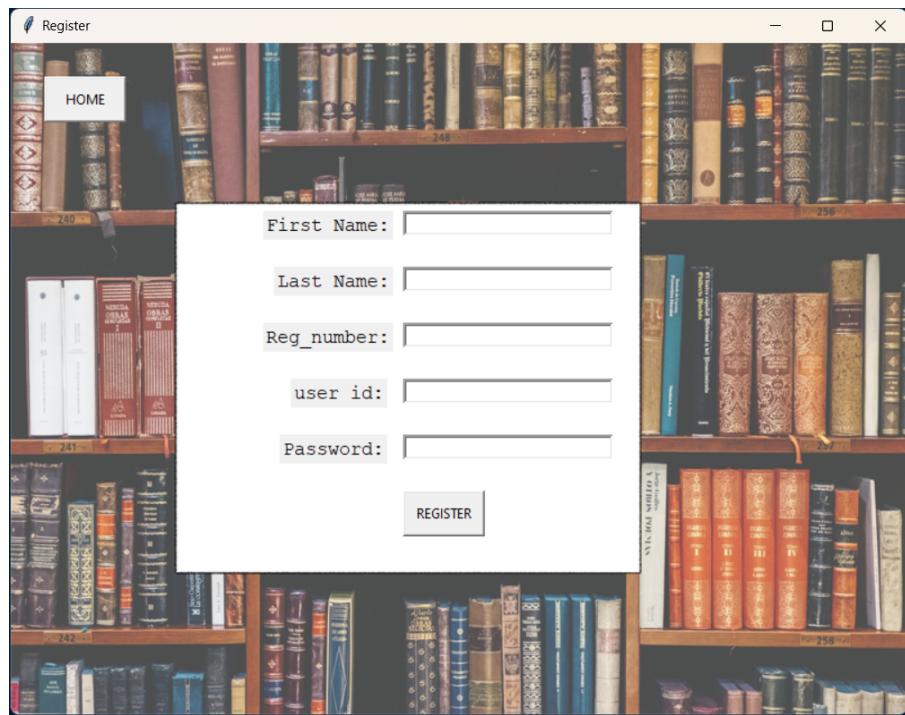
HOME PAGE:



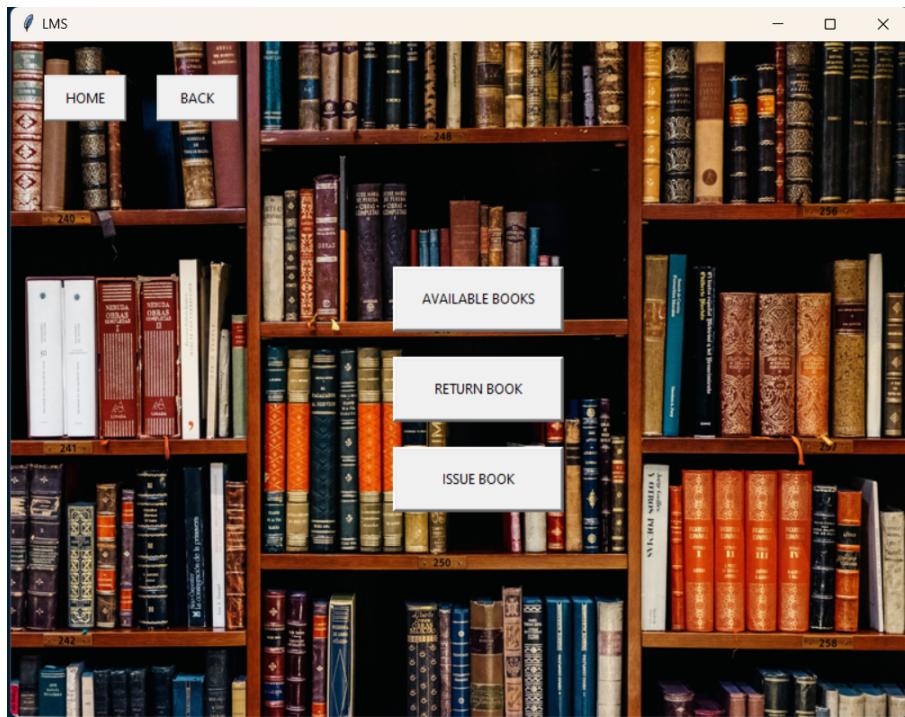
SIGN UP PAGE:



REGISTER PAGE:



LMS PAGE:

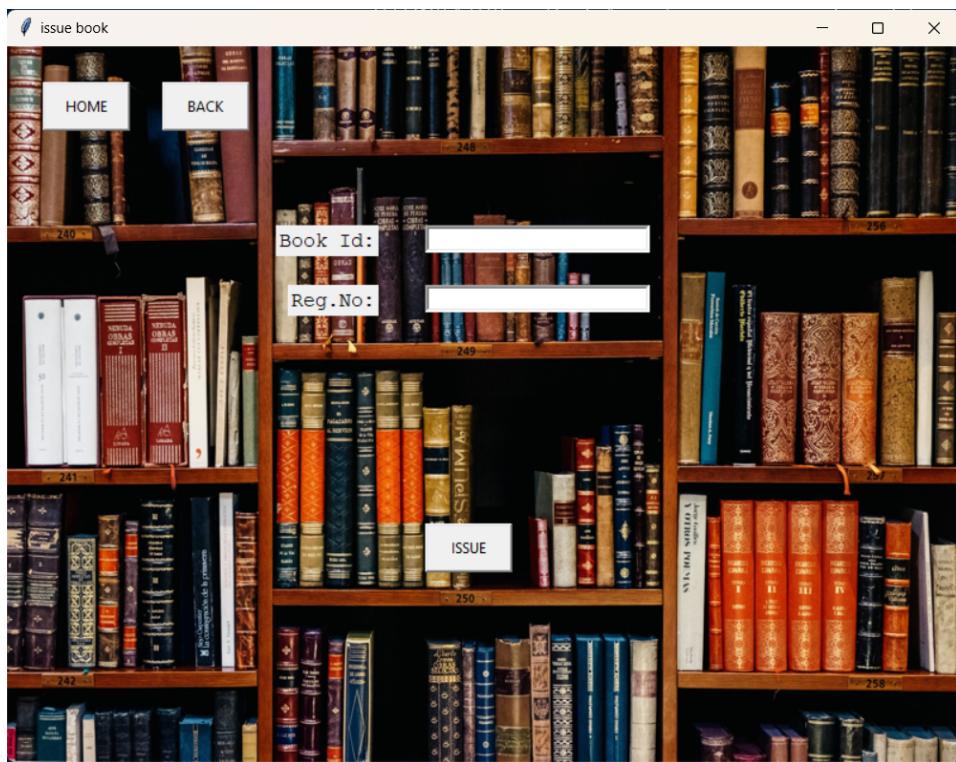


AVAILABLE BOOKS PAGE:

A screenshot of the 'AVAILABLE BOOKS' page. At the top left is the logo 'AVAILABILITY'. Below it is a table with the following data:

book_id	book_name	author
6	Queen of Fire	Devika Rangachari
7	Hear Yourself	Indian Author Prem Rawat
8	Ungalil Oruvan	Chief minister MK Stalin
9	The Queen of Indian Pop	Usha Uthup
10	The \$10 Trillion Dream	Subhash Chandra Garg

ISSUE BOOKS PAGE:



RETURN BOOKS PAGE:

