JHI: PASA:

Kirtan Shrestha BSc. (Hons.)

Computing, Softwarica Collage of IT and E-commerce, Coventry University

ST4008CEM Computing Activity LED Learning Project 1

Giriraj Rawat

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Introduction

The main purpose of making this front end is to build a simple, user friendly, and interactive "Sign-in and Login" GUI for customer using Python Tkinter tools.

Login Page

Login page is the first page which user sees after running the application. The user who has registered in the application, they can directly enter their username and password to login the Small Mart system. If the username and password which were matched the record stored in the database, then they will grant access. If the username and password were don't match with the record stored in the database, it will show a message box with "Invalid Credentials".

Figure 1

Login page

As we can see there is three features in login page they are "Login", "Sign Up" and "Eye button". Login button is used to login to the main dashboard. Sign Up button is used to sign up our account if you don't have an account. Eye button is used to "hide and show" our password.

Figure 2

Login code

```
#labels and entry-----------------------------------------------------------
login_lb=Label(logon,text="LOGIN",font=my_font2,bg="light yellow",fg="black")
login_lb.place(x=180,y=25)

user=Label(logon,text="Username:",font=my_font1,bg="light yellow",fg="black")
user.place(x=92,y=105)

user_entry=Entry(logon,bg="white",font=my_font1,fg="#2B2828",width=20,borderwidth=2,relief=GROOVE)
user_entry.insert(0,"Username")
user_entry.place(x=120,y=138)
user_entry.bind("<FocusIn>",del1)

#password---------------------------------------
pw=Label(logon,text="Password:",font=my_font1,bg="light yellow",fg="black")
pw.place(x=90,y=190)

pw_entry=Entry(logon,bg="white",font=my_font1,fg="#2B2828",width=20,borderwidth=2,relief=GROOVE,show="*")
pw_entry.insert(0,"Password")
pw_entry.place(x=120,y=225)
pw_entry.bind("<FocusIn>",del2)

#verify function-------------------------------------
def verify():
    a=user_entry.get()
    b=pw_entry.get()
    if (a=="" or a=="Username:") or (b=="" or b=="Password"):
        messagebox.showerror("Login","Error.")
    else:
        check()

a=Image.open('show.png')
a1=a.resize((20,20))
show_img=ImageTk.PhotoImage(a1)

b=Image.open('hide.png')
b1=b.resize((20,20))
hide_img=ImageTk.PhotoImage(b1)



    #hide/show functions
def hide():
        show_btn=Button(logon,image=show_img,command=show,bg="white",borderwidth=0,activebackground="#CBD8ED")
        show_btn.place(y=228,x=325)
        pw_entry.config(show="")

def show():
        hide_btn=Button(logon,image=hide_img,command=hide,bg="white",borderwidth=0,activebackground="#CBD8ED")
        hide_btn.place(y=228,x=325)
        pw_entry.config(show="*")
```

Sign Up page.

Sign up page is the second page where user can create their account if they have not created an account in our application. User should fill all the details shown below to create an account to our application.

As we can see there is two button one is “Sign in and Login” after filling all details we can sign in it. If you miss to fill one entry box also it will show us the “Error”. After creating the account, you can click the login button to go the first page.

Figure 3

Sign up page.

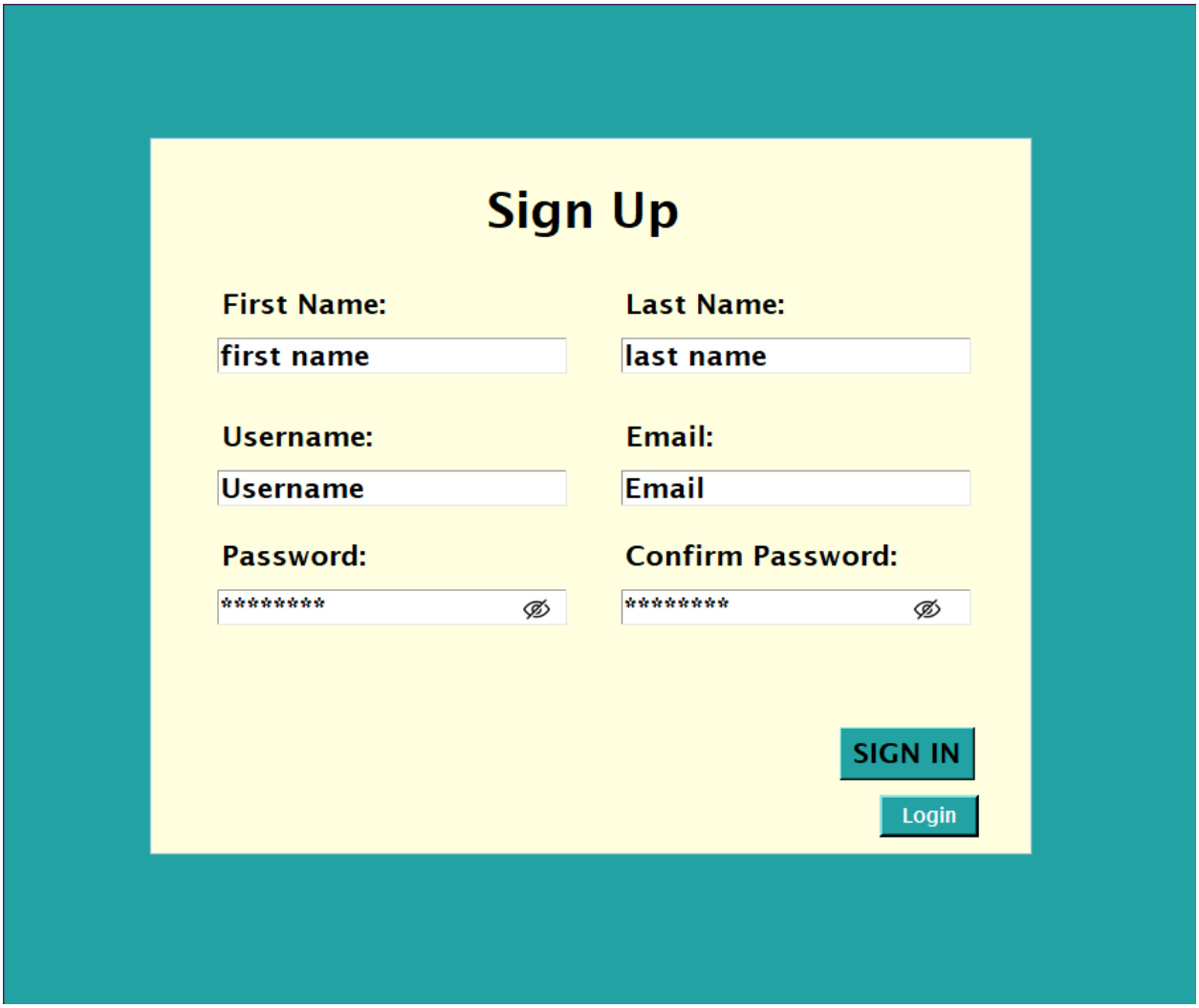


Figure 4

Code of Signup

```
f_name=Label(frame_r,text="First Name: ",font=my_font1,bg="light yellow",fg="black")
f_name.place(x=50,y=110)
f_entry=Entry(frame_r,font=my_font1,bg="white",fg="black")
f_entry.insert(0,"first name")
f_entry.place(x=50,y=150)
f_entry.bind("<FocusIn>",del1)

l_name=Label(frame_r,text="Last Name: ",font=my_font1,bg="light yellow",fg="black")
l_name.place(x=355,y=110)
l_entry=Entry(frame_r,font=my_font1,bg="white",fg="black")
l_entry.insert(0,"last name")
l_entry.place(x=355,y=150)
l_entry.bind("<FocusIn>",del2)

u_name=Label(frame_r,text="Username: ",font=my_font1,bg="light yellow",fg="black")
u_name.place(x=50,y=210)
u_entry=Entry(frame_r,font=my_font1,bg="white",fg="black")
u_entry.insert(0,"Username")
u_entry.place(x=50,y=250)
u_entry.bind("<FocusIn>",del3)

email=Label(frame_r,text="Email: ",font=my_font1,bg="light yellow",fg="black")
email.place(x=355,y=210)
email_try=Entry(frame_r,font=my_font1,bg="white",fg="black")
email_try.insert(0,"Email")
email_try.place(x=355,y=250)
email_try.bind("<FocusIn>",del4)

pw=Label(frame_r,text="Password: ",font=my_font1,bg="light yellow",fg="black")
pw.place(x=50,y=300)

pw_entry=Entry(frame_r,font=my_font1,bg="white",fg="black",show="*")
pw_entry.insert(0,"password")
pw_entry.place(x=50,y=340)
pw_entry.bind("<FocusIn>",del5)

con_pw=Label(frame_r,text="Confirm Password: ",font=my_font1,bg="light yellow",fg="black")
con_pw.place(x=355,y=300)

cpw_try=Entry(frame_r,font=my_font1,bg="white",fg="black",show="*")
cpw_try.insert(0,"re-enter")
cpw_try.place(x=355,y=340)
cpw_try.bind("<FocusIn>",del6)
```

Back End

In the back end the data which were written in the sign-up page were stored in database. It stored the value permanently and only the admin can delete or edit it. In backend import sqlite3 to connect and create a database where all the records were stored.

Figure 5
Backend code

```
def form_page():
    try:
        log=sqlite3.connect('register.db')
        log1=log.cursor()
        log1.execute("""CREATE TABLE signup(
            f_name text,
            l_name text,
            u_name PRIMARY KEY,
            email varchar,
            pw varrchar
            )
        """)
        log.commit()
        log.close()
    except:
        pass


def login_page():
      reg_p.destroy()
      import loginreal
```

Figure 6

Data store in database

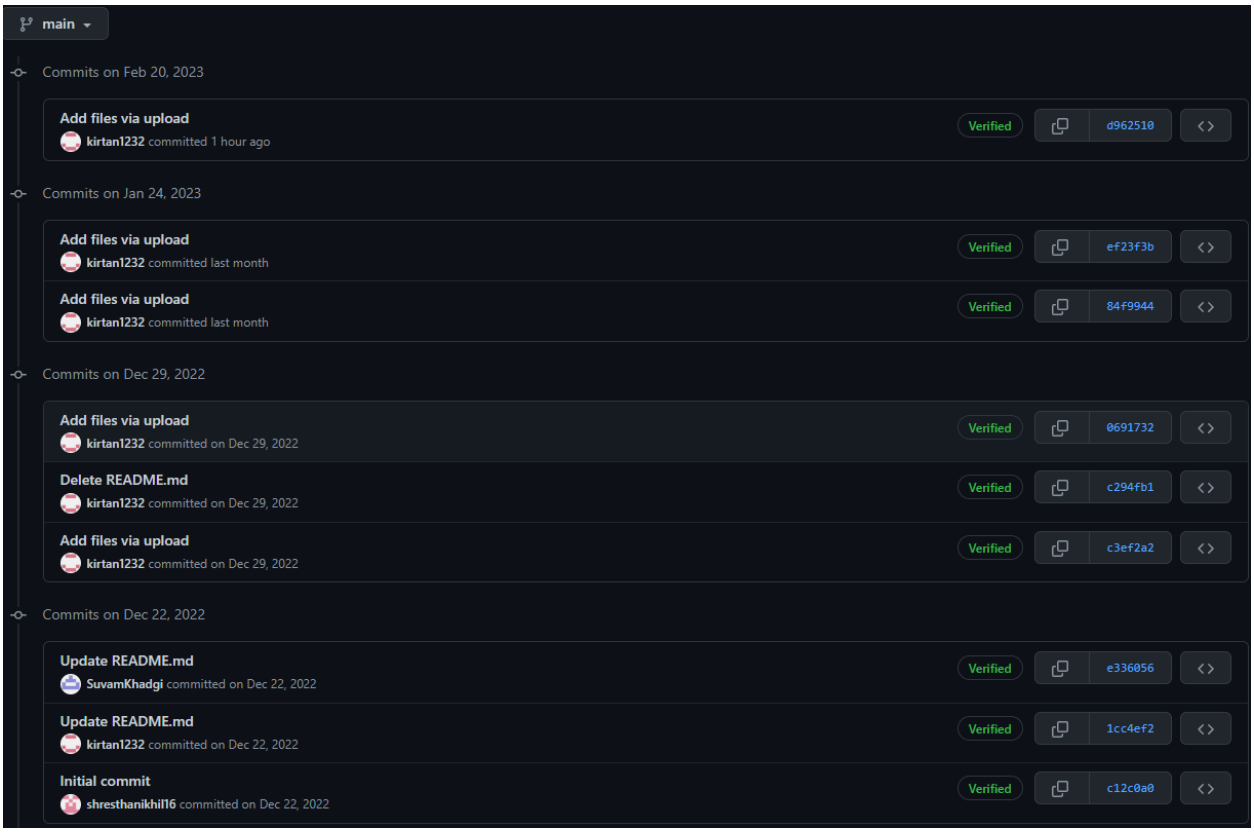
SQL ▼ < 1 / 1 > 1 - 1 of 1

f_name	l_name	u_name	email	pw
Kirtan	Shrestha	kirtan1232	shresthakirtan4@gmail.com	9862242899

GitHub Commits

Figure 7

Commits



Conclusion

The goal of our application is to make sure the customer can see which products are available in our shop. They won't need to visit our shop to check out the products which they want to buy. They can check our application by staying at home and add the product into their cart and purchase it. It can save the time of people and also they won't need to search our mart location. It also saved the bill of the customer which incase if they have any problem with our product they can contact us.

I feel that in terms of coding, I was not able to keep up with my fellow team members, but I was able to calmly gather all the required information necessary for this application and was able to systematically arrange them to help others.