A
MINI PROJECT

(BASED ON PYTHON PROGRAMMING(INT216))

ON

PASSWORD GENERATOR

SUBMITTED BY

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(CSE b.tech)

3rd semester

under the guidance of

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submitted to

lovely professional university,jalandhar,punjab

on

10th nov 2021

CANDIDATE'S DECLARATION

I hereby declare that the mini project work being presented in this report entitled "password generator" submitted to the department of computer scienceand engineering (int 213) , lpu , jalandhar , punjab.

DATE: 10/11/2021

CERTIFICATION

This is to certify that this report represents the original work done by garapati srimanikanta during this project submission as a partial fulfillment of the python programming(int 213) ,third semester,of the lpu.

DATE: 10/11/2021

ACKNOWLEDGEMENT

I would like to express my special thanks of gratitude to my prof. pooja rana mam who gave me the golden opportunity to do this wonderful project on the topic password generator, which also helped me in doing a lot of research and i came to know about so many new things . I am really thankful to them.

SYNOPSIS

1. TITLE OF THE PROJECT :-

"password generator"

2. OBJECTIVE OF THE PROJECT :-

The objective of this project is to create a password generator by using python . the password generator project will build a password by using python and python modules like - tkinker , random , string ,pyperclip .

In this project , the user has to select the password length and then click on the "generate password" button . it will show the generated password below and user can also copy it .

The main motive of this project is to improve the system security by generating or constructing a powerful password .

3 . LANGUAGE AND SOFTWARE TOOLS USED :-

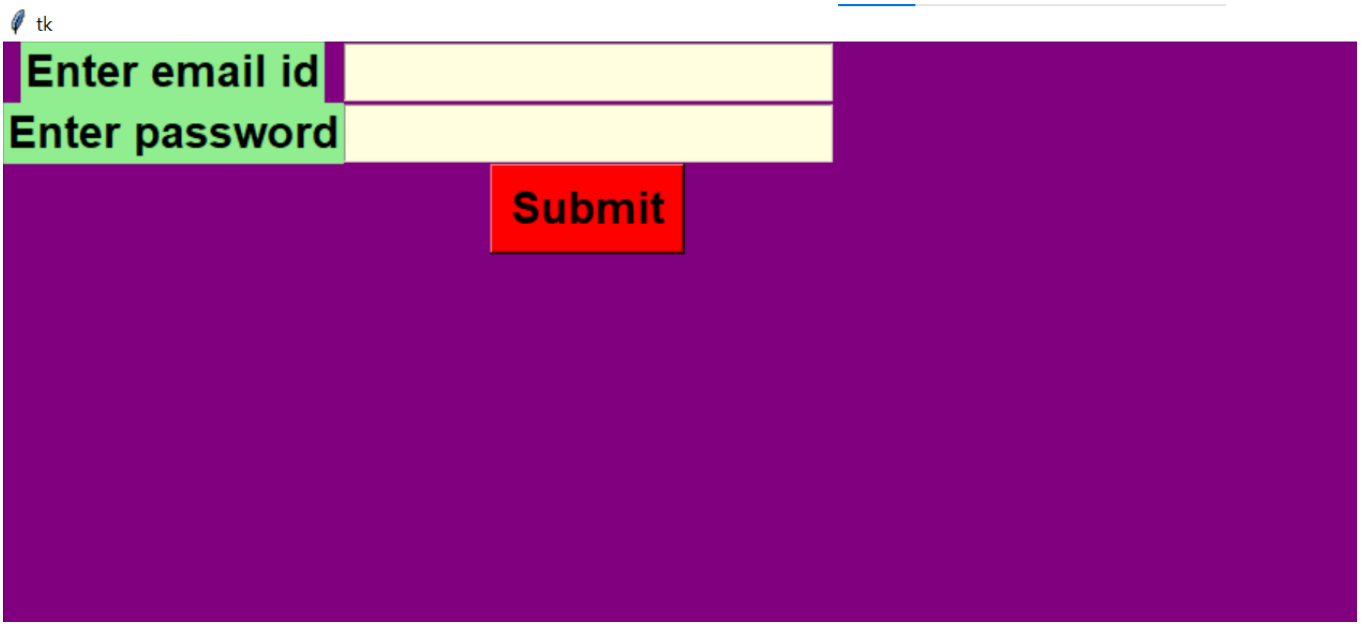
FRONT END :- python and libraries - tkinter , pyperclip , random , string.

BACK END :- mysql

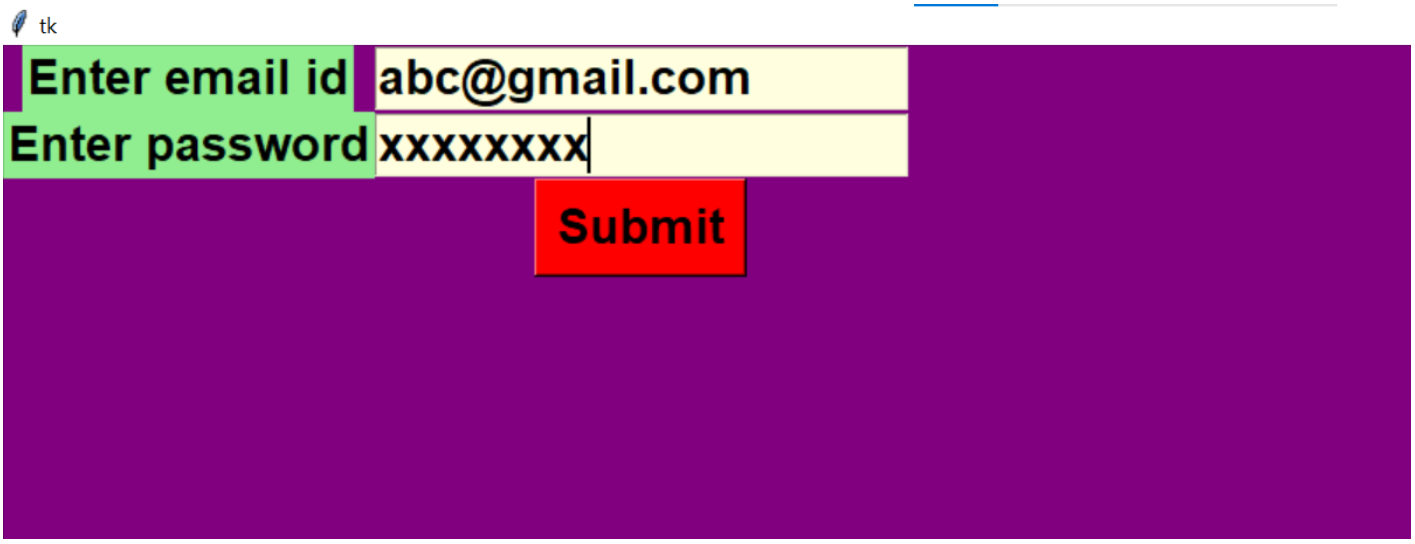
OPERATING SYSTEM :- windows 10

SCREENSHOTS:-

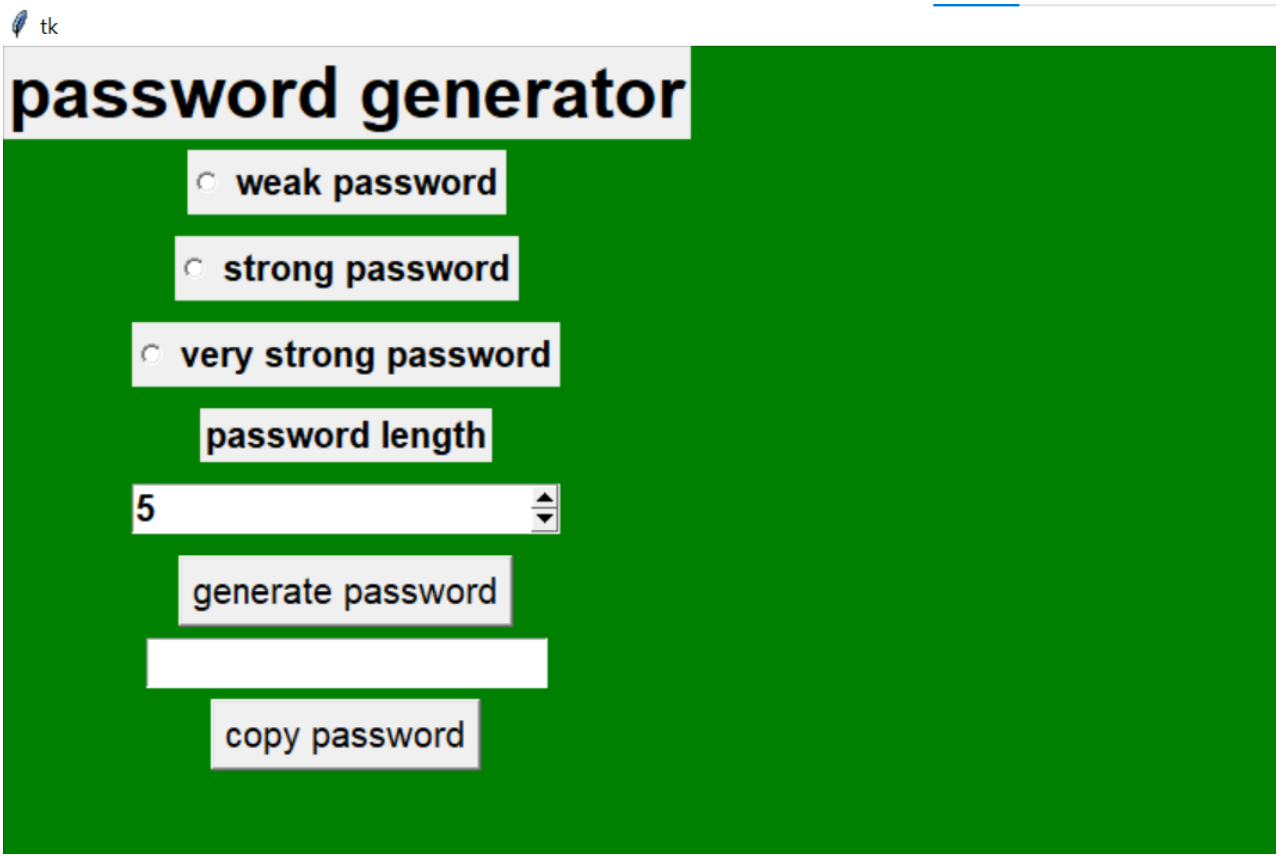
1. MAIN PAGE :-



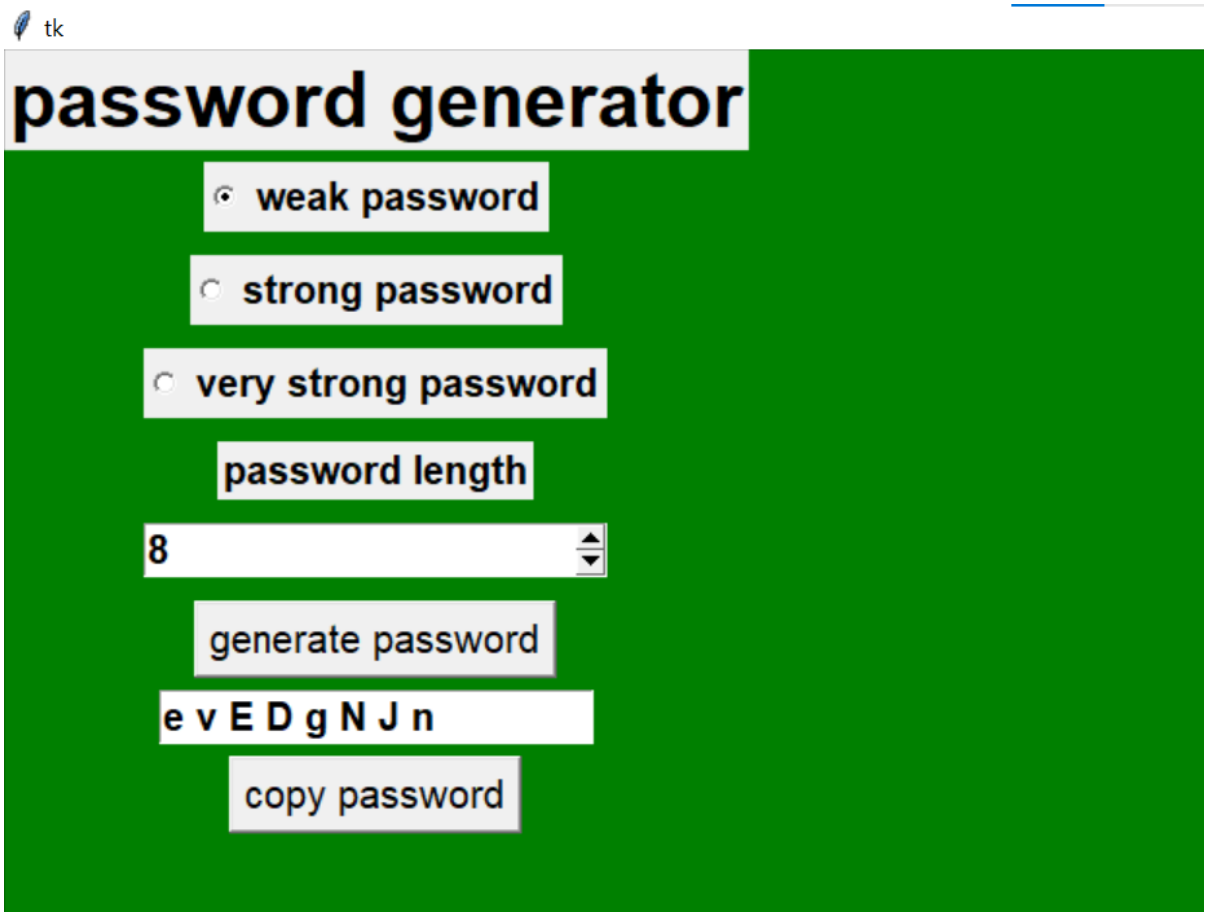
2. USER SIGN UP :-



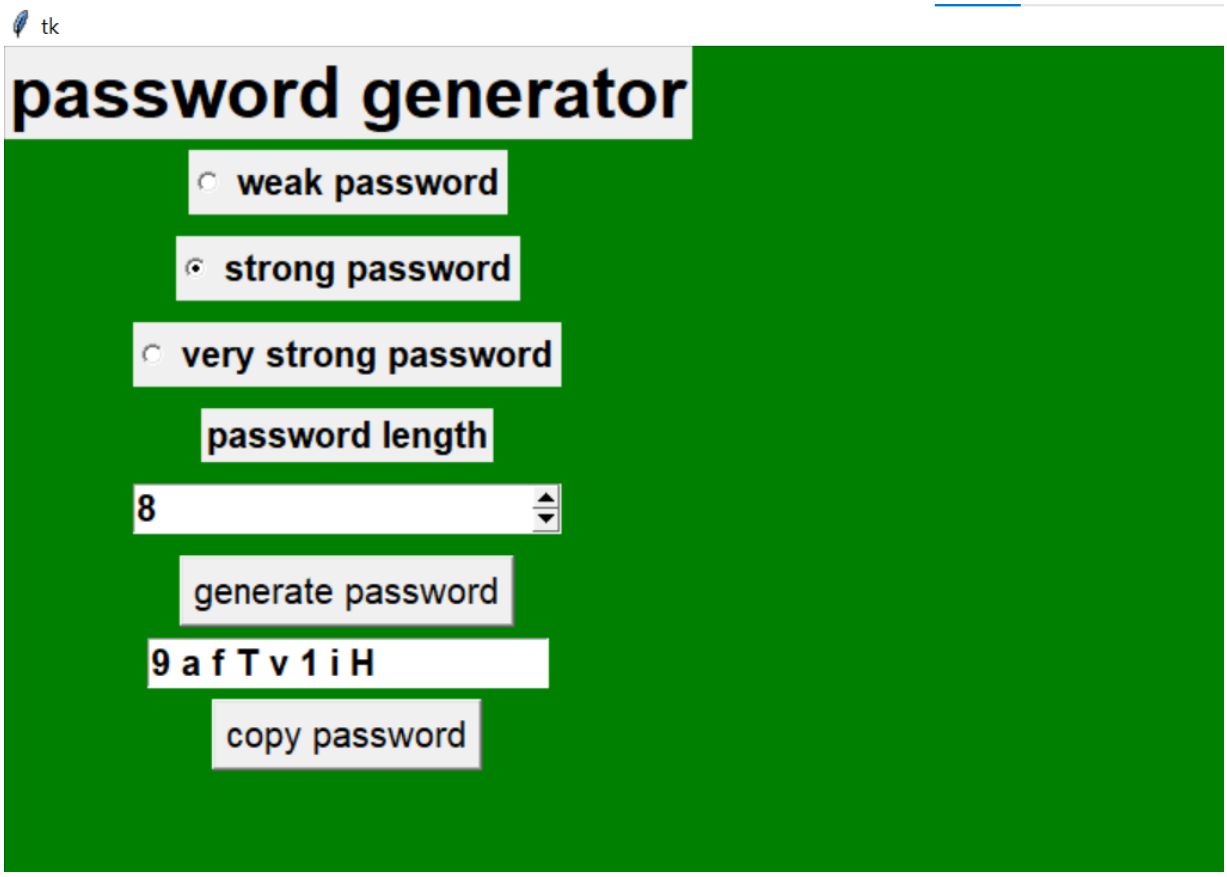
3. HOME PAGE :-



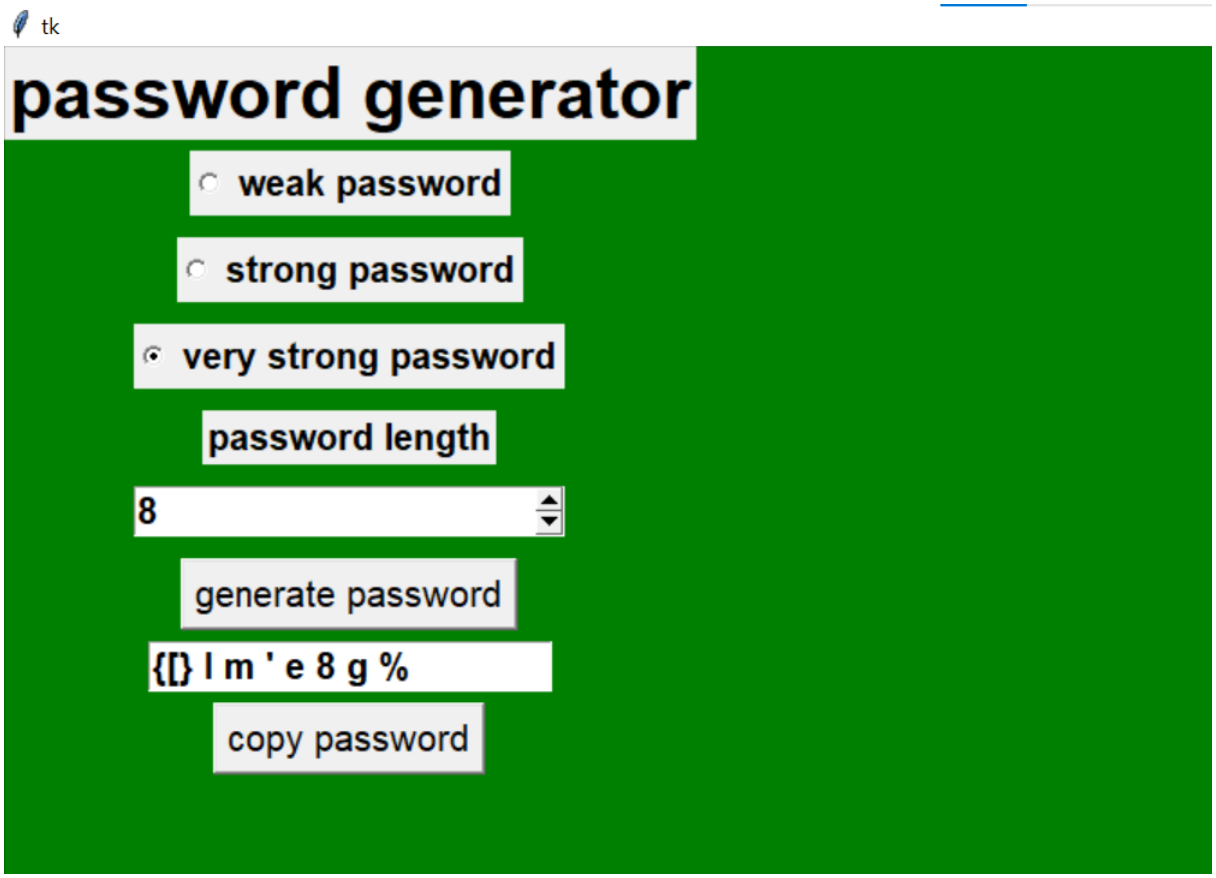
4. WEAK PASSWORD :-



5. STRONG PASSWORD :-



6. VERY STRONG PASSWORD :-



CODING :-

```
Label(top, text="Enter email id",bg="light green",font=("arial",20,"bold")).grid(row=0, column=0)
v1=StringVar()
e1=Entry(top, textvariable=v1,bg="light yellow",font=("arial",20,"bold"))
e1.grid(row=0, column=1)
Label(top, text="Enter password",bg="light green",font=("arial",20,"bold")).grid(row=1, column=0)
v2=StringVar()
e2=Entry(top, textvariable=v2,bg="light yellow",font=("arial",20,"bold"))
e2.grid(row=1, column=1)
Button(top, text="Submit",bg="red",font=("arial",20,"bold")).grid(row=4,column=1)
```

```
def generator():
    small_alpha=string.ascii_lowercase
    #access all small alphabets
    capital_alpha=string.ascii_uppercase
    #access all capital alphabets
    numbers=string.digits
    #access all numders
    special_char=string.punctuation
    #access all symbols

    sum_=small_alpha+capital_alpha+numbers+special_char
    pass_length=int(spin_box.get())

    if choice.get()==1:
        passwordfield.insert(0,random.sample(small_alpha+capital_alpha,pass_length))
        #weak password contains small & capital alphabets

    if choice.get()==2:
        passwordfield.insert(0,random.sample(small_alpha+capital_alpha+numbers,pass_length))
        # strong password contains small & capital alphabets and numbers
```

```
    if choice.get()==3:
        passwordfield.insert(0,random.sample(sum_,pass_length))
        # very strong password contains small & capital alphabets , numbers and symbols

    #password=random.sample(sum_,pass_length)
    #passwordfield.insert(0,password)
def copy():
    random_password=passwordfield.get()
    pyperclip.copy(random_password)
    #created a copy function to copy the text

top=Tk()
top.config(background="green")
choice=IntVar()
Font=("arial",15,'bold')

passlabel=Label(top,text="password generator",font=("helvetica",30,"bold"))
passlabel.grid()

weakradiobutton=Radiobutton(top,text="weak password",value=1,variable=choice,font=Font)
weakradiobutton.grid(pady=6)

strongradiobutton=Radiobutton(top,text="strong password",value=2,variable=choice,font=Font)
strongradiobutton.grid(pady=6)
```

```
verystrongradiobutton=Radiobutton(top,text="very strong password",value=3,variable=choice,font=Font)
verystrongradiobutton.grid(pady=6)

passwordlength=Label(top,text="password length",font=Font)
passwordlength.grid(pady=6)

spin_box=Spinbox(top,from_=5,to_=18,font=Font)
spin_box.grid(pady=6)

generatebutton=Button(top,text="generate password",font="Font",command=generator)
generatebutton.grid(pady=6)


passwordfield=Entry(top,font=Font)
passwordfield.grid()

copybutton=Button(top,text="copy password",font="Font")
copybutton.grid(pady=6)



top.mainloop()
```

CONCLUSION :-

Here , I have come to the end of the project on the topic " password generator ".

I would like to share my experience while doing this project . i have learnt many new things about python and python libraries and it was a wonderful learning experience for me while working on this project.

This project has developed my thinking skills and more facinated about this subject . this project gave me real insight into the python world.

THANK YOU