

## **Martial Arts Management System**

Aryan Nakarmi

B.Sc. (Hons.) Computing, Softwarica College of IT and E-commerce, Coventry University

ST4008CEM Computing Activity Led Learning Project 1

Giriraj Rawat

FEB 29,2024

## Table of Content

<b>Introduction.....</b>	<b>4</b>
<b>Home Page.....</b>	<b>4</b>
<b>About .....</b>	<b>9</b>
<b>Version Control.....</b>	<b>12</b>
<b>Conclusion .....</b>	<b>13</b>

### Table of Figures

Figure 1Home.....	5
Figure 2Source code of home page .....	6
Figure 3Source Code Home page.....	7
Figure 4Source Code of Home page.....	8
Figure 5About us page .....	9
Figure 6Source Code of About us page.....	10
Figure 7Source code of about us .....	11
Figure 8Source Code of About us.....	11
Figure 10Github commit .....	12

## **Introduction**

Objective of this desktop application is to provide a simple, user-friendly environment for the user who have a loving relation with the art of fighting i.e., Martial Arts. This frontend provides user with Home Page and About Page. The Home page and about provides user an interface where they can find all the information. Given desktop application is made through Python's Tkinter tools.

## **Home Page**

Home page consists of "Add new package", "Subscribers", and "About" where existing user can subscribe to a martial arts package and see the information page. The user has the option "Logout" where the user can go back to the Login Page to create new account or use another account.

When a user clicks on "add new package" then the user is taken to a new page where they can subscribe to a new package. They can also choose package type and package number and when admin clicks on "Subscribers" they are taken to a page where they can edit customers' information.

The following GUI use tkinter to enhance the home page viewing details. User gets the small GUI interface to add subscription. The background is fully cover with png image and has two frames.

Figure 1Home

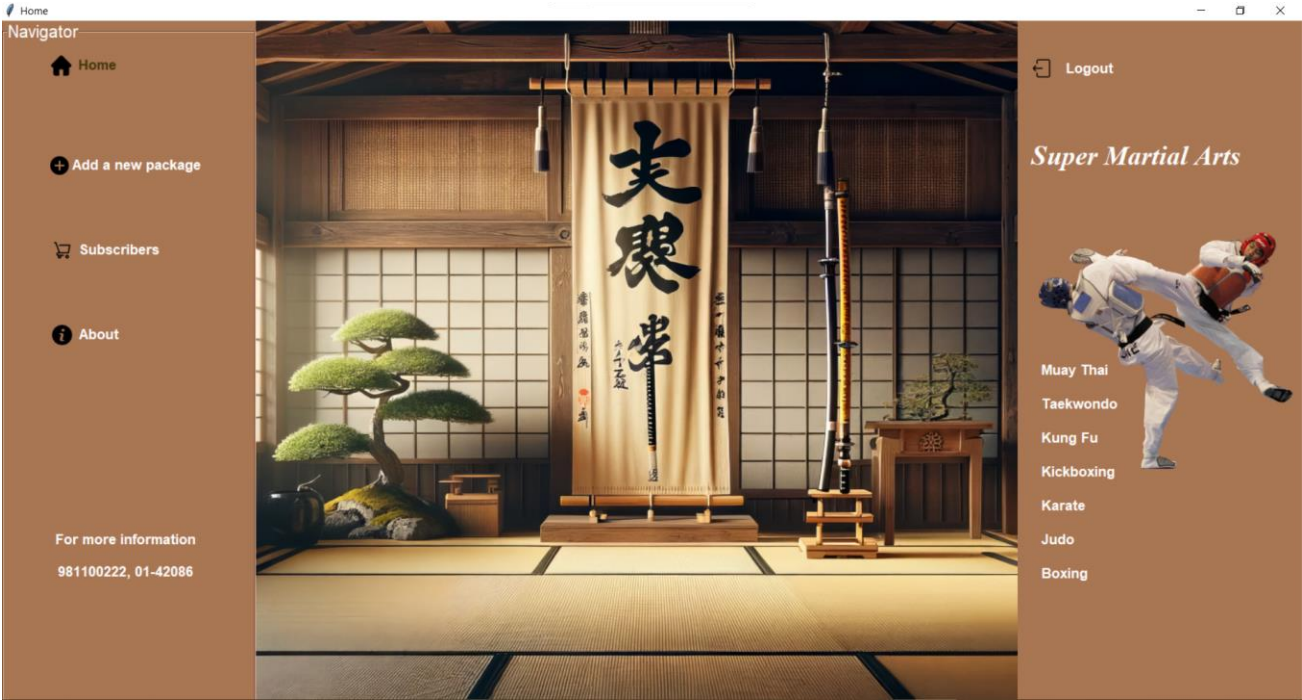


Figure 2 Source code of home page

```

home_page.py > display_home
1  from tkinter import *
2  from tkinter import messagebox
3  from PIL import Image,ImageTk
4  import os
5
6
7
8  def display_home():
9      import subscribers
10     def tosubs():
11         root.destroy()
12         subscribers.subs()
13     import sub
14     def tosub():
15         root.destroy()
16         sub.add()
17
18     def tologin():
19         root.destroy()
20         os.system("python mainproject.py")
21     def about():
22         root.destroy()
23         os.system("python about.py")
24
25     root=Tk()
26     screenwidth = root.winfo_screenwidth()
27     screenheight = root.winfo_screenheight()
28     root.geometry(f'{screenwidth}x{screenheight}+0+0')
29     root.title("Home")
30     #insert main picture
31     mainimg=Image.open('dojo.png')
32     mainimg_tk=ImageTk.PhotoImage(mainimg)
33     btn=Label(root,image=mainimg_tk)
34     btn.pack()
35

```

Figure 3 Source Code Home page

```

36
37 #right side
38 lblri=Label(root,bg='#A97653',height=776,width=146)
39 lblri.place(x=1200,y=0)
40 lblri1=Label(root,text='Super Martial Arts',font=("Times", "24", "bold italic"),fg='white',bd=0,bg='#A97653')
41 lblri1.place(x=1215,y=140)
42
43 #insert logo img
44 logoimg=Image.open('kick.png')
45 logoimg_tk=ImageTk.PhotoImage(logoimg)
46 btnlogo=Label(root,compound='right',image=logoimg_tk,bd=0,bg='#A97653')#,width=150,height=150
47 btnlogo.place(x=1225,y=250)
48
49 #features
50 lblfea=Label(root,text='Muay Thai',bg='#A97653',fg='white',font=('','13", "bold"))
51 lblfea.place(x=1225,y=400)
52
53 lblfea1=Label(root,text='Taekwondo',bg='#A97653',fg='white',font=('','13", "bold"))
54 lblfea1.place(x=1225,y=440)
55
56 lblfea2=Label(root,text='Kung Fu',bg='#A97653',fg='white',font=('','13", "bold"))
57 lblfea2.place(x=1225,y=480)
58
59 lblfea3=Label(root,text='Kickboxing',bg='#A97653',fg='white',font=('','13", "bold"))
60 lblfea3.place(x=1225,y=520)
61
62 lblfea3=Label(root,text='Karate',bg='#A97653',fg='white',font=('','13", "bold"))
63 lblfea3.place(x=1225,y=560)
64
65 lblfea3=Label(root,text='Judo',bg='#A97653',fg='white',font=('','13", "bold"))
66 lblfea3.place(x=1225,y=600)
67
68 lblfea3=Label(root,text='Boxing',bg='#A97653',fg='white',font=('','13", "bold"))
69 lblfea3.place(x=1225,y=640)
70

```

Figure 4 Source Code of Home page

```

70
71 #create navigator
72 nav=LabelFrame(root,text='Navigator',font=20,bg='#A97653',fg='white',bd=2,width=300,height=1200,relief='groove')
73 nav.place(x=0,y=0)
74
75 #create buttons
76 home_img=PhotoImage(file='imgs/home.png')
77 home_nav=Label(root,text='Home',compound='left',highlightcolor='black',image=home_img,fg='#433880',bg='#A97653',font=('',"13", "bold"),bd=0,padx=8,pady=8)
78 home_nav.place(x=50,y=33)
79
80 img1=PhotoImage(file='imgs/buy.png')
81 btn1_nav=Button(root,text='Subscribers',compound='left',highlightcolor='black',image=img1,fg='white',bg='#A97653',font=('',"13", "bold"),bd=0,padx=8,pady=8,command=tosubs)
82 btn1_nav.place(x=50,y=250)
83
84 img2=PhotoImage(file='imgs/add.png')
85 btn2_nav=Button(root,text='Add a new package',compound='left',image=img2,fg='white',bg='#A97653',font=('',"13", "bold"),bd=0,padx=3,pady=8,command=tosub)
86 btn2_nav.place(x=52,y=150)
87
88 img3=PhotoImage(file='imgs/about.png')
89 btn4_nav=Button(root,text='About',compound='left',image=img3,fg='white',bg='#A97653',font=('',"13", "bold"),bd=0,padx=8,pady=8,command=about)
90 btn4_nav.place(x=50,y=350)
91
92 img4=PhotoImage(file='logout.png')
93 btn5_nav=Button(root,text='Logout',compound='left',image=img4,fg='white',bg='#A97653',font=('',"13", "bold"),bd=0,padx=8,pady=8,command=tologin)
94 btn5_nav.place(x=1200,y=30)
95
96 info=Label(root,text="For more information\n\n981100222, 01-42086",fg='white',bg='#A97653',font=('',"13", "bold"))
97 info.place(x=60,y=600)
98
99 root.mainloop()
100
101 if __name__ == "__main__":
102     display_home()

```



## About

About page helps our applicants to get through our management system. “BACK” button helps the applicant to go back to the Home Page. There are 4 pictures of Martial Arts tutors and it has their name and department. The page also contains a quote from a Japanese philosopher. The bottom of the page contains our mission and email to contact us.

Figure 5 About us page

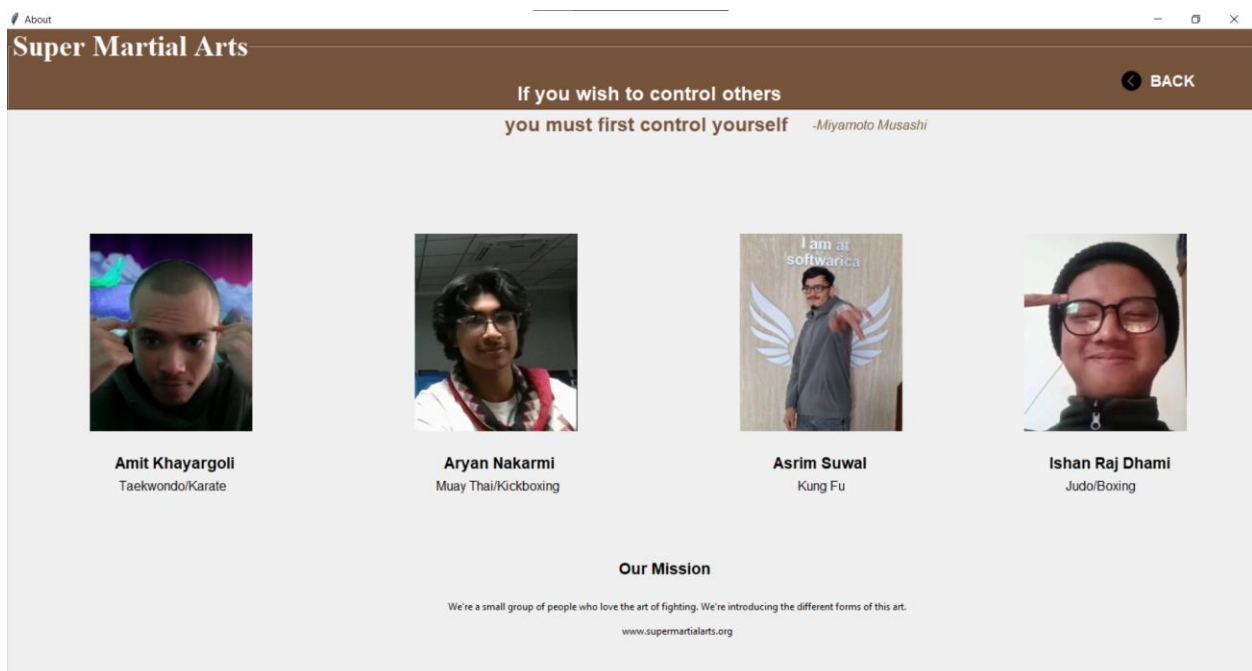


Figure 6 Source Code of About us page

```

about.py > ...
1  from tkinter import *
2  from tkinter import messagebox
3  from PIL import Image, ImageTk
4  import os
5
6  root=Tk()
7  screenwidth = root.winfo_screenwidth()
8  screenheight = root.winfo_screenheight()
9  root.geometry(f'{screenwidth}x{screenheight}+0+0')
10 root.title("About")
11
12 def back():
13     root.destroy()
14     os.system("python home_page.py")
15
16
17 nav=LabelFrame(root,text='Super Martial Arts',font=("Times", "26", "bold"),bg='#75543B',fg='white',bd=2,width=1000,height=100,relief='groove')
18 nav.place(x=0,y=0)
19 quote=Label(root,text='If you wish to control others',bg='#75543B',fg='white',font=(' ', "18", "bold"))
20 quote.place(x=625,y=62)
21 quote2=Label(root,text='you must first control yourself',fg='#75543B',font=(' ', "18", "bold"))
22 quote2.place(x=610,y=100)
23 artist=Label(root,text='Miyamoto Musashi',fg='#75543B',font=(' ', "12", "italic"))
24 artist.place(x=988,y=105)
25
26 img1=PhotoImage(file='amita.png')
27 img_amit=Label(root,highlightcolor='#43388D',image=img1)
28 img_amit.place(x=100,y=250)
29

```

Figure 7Source code of about us

```

28 img_amit.place(x=100,y=250)
29
30 img2=PhotoImage(file='hero.png')
31 img_hero=Label(root,highlightcolor='#43380D',image=img2)
32 img_hero.place(x=500,y=250)
33
34 img3=PhotoImage(file='udh.png')
35 img_udh=Label(root,highlightcolor='#43380D',image=img3)
36 img_udh.place(x=900,y=250)
37
38 img4=PhotoImage(file='kale.png')
39 img_kale=Label(root,highlightcolor='#43380D',image=img4)
40 img_kale.place(x=1250,y=250)
41
42 amit=Label(root,text="Amit Khayargoli",font=("Arial", "14", "bold"))
43 amit.place(x=130,y=520)
44 art1=Label(root,text="Taekwondo/Karate",font=("Arial","12")).place(x=135,y=550)
45
46 aryan=Label(root,text="Aryan Nakarmi",font=("Arial", "14", "bold"))
47 aryan.place(x=535,y=520)
48 art2=Label(root,text="Muay Thai/Kickboxing",font=("Arial","12")).place(x=525,y=550)
49
50 asrim=Label(root,text="Asrim Suwal",font=("Arial", "14", "bold"))
51 asrim.place(x=940,y=520)
52 art3=Label(root,text="Kung Fu",font=("Arial","12")).place(x=970,y=550)
53
54 ishan=Label(root,text="Ishan Raj Dhami",font=("Arial", "14", "bold"))
55 ishan.place(x=1280,y=520)
56 art4=Label(root,text="Judo/Boxing",font=("Arial","12")).place(x=1300,y=550)
57

```

Figure 8Source Code of About us

```

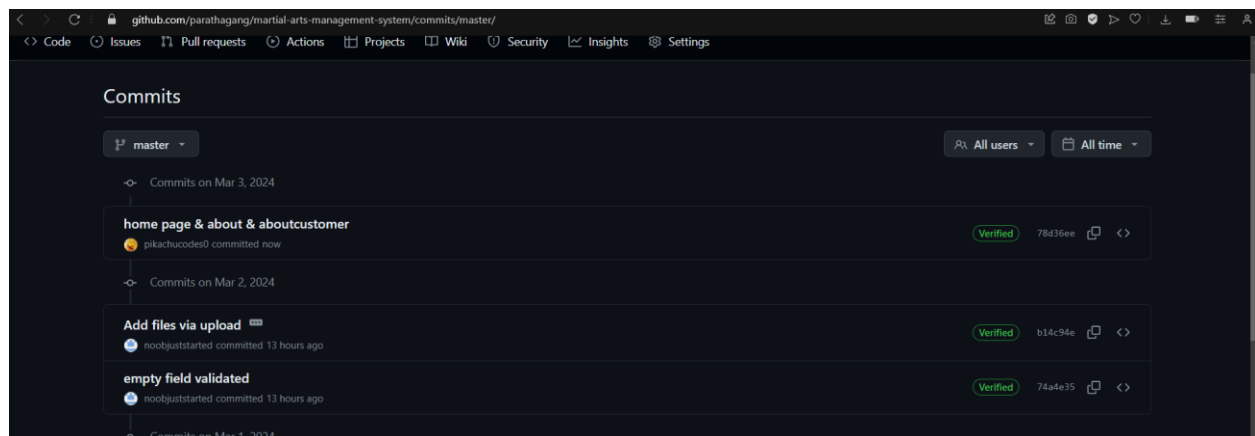
7
8 mison=Label(root,text="Our Mission",font=("Arial","14","bold")).place(x=750,y=650)
9
10 exp=Label(root,text="We're a small group of people who love the art of fighting. We're introducing the different forms of this art.\nwww.supermartialarts.org").place(x=540,y=700)
11
12 backing=PhotoImage(file='back.png')
13 btn=Button(root,text="BACK",compound="left",image=backing,fg='white',bg='#75543B',font=(' ', "14", "bold"),bd=0,padx=8,pady=8,command=back)
14 btn.place(x=1360,y=40)
15
16
17 root.mainloop()

```

## Version Control

GitHub : <https://github.com/parathagang/martial-arts-management-system/commits/master/>

Figure 9 Github commit



## Conclusion

In conclusion through the GUI framework Tkinter the Home and about interface are provided. I learned a lot through this project where I faced a lot of challenges but all the coding learned throughout the classes were fully utilized.

This project being my first ever project in this field, got a lot of experience to engage in something new which I am delighted about. To create something best in first try is not possible but I tried my best to engage my best idea in this project. I learnt to use customtkinter and different labels and entry boxes through this project. I used to find using pictures as background very difficult but after this project I found it to be relatively easy.

Hope to get chance to engage in lot of IT projects in future to develop my skills one step forward. I want to hone my skills as an IT student.