

Project Report

on

Gym Management System

Submitted to

LOVELY PROFESSIONAL UNIVERSITY

in partial fulfilment of the requirements for the award of degree of

Master of Computer Applications

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[11/2023]

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Introduction about project: A Gym Management System is a sophisticated software solution designed to facilitate the efficient and organized operation of fitness centers, gyms, and health clubs. It serves as a comprehensive platform that automates and streamlines various aspects of gym administration, membership management, and overall facility supervision. This system is instrumental in simplifying the daily tasks of gym owners, managers, staff, and members, making it an essential tool for modern fitness facilities.

Project Modules and its description:

Login:

• This module allows users, including both gym members and staff, to log in to the system using their credentials. It provides authentication and security for user accounts.

Owner Signup:

• Owners of the gym can use this module to sign up and create an account in the system. They can provide their details and set up their admin privileges.

User Signup:

• New gym members can sign up for membership through this module. They can provide their personal information and choose a membership plan.

Manage Appointment:

• This module enables users to schedule and manage their appointments for gym sessions, personal training, or other fitness-related activities.

Manage Membership:

• Users can view, select, and manage their gym membership plans. The module allows for membership renewal and upgrades.

Member Profile:

• Users can view and edit their personal profiles, including contact information, fitness goals, and progress tracking.

Owner Dashboard:

• The owner's control center of the system, providing an overview of gym operations, including financial statistics, membership data, and staff management.

Owner Inventory:

• This module assists gym owners in managing gym equipment and supplies. It includes functionalities for tracking inventory, ordering new equipment, and managing stock levels.

User Dashboard:

• Members can access their personalized dashboard, which includes information on their membership, appointments, fitness progress, and any notifications or alerts.

User Inventory:

• This module allows gym members to keep track of their personal fitness equipment, such as weights, exercise bands, or workout plans.

Analysis and visualization:.

• **Visual.Ai**: Visual.Ai is a plateform which is driven by intelligent ai system which is capable to do visualization by writing some text. This plateform can integrate any where and in Gym management system i have integrated this to analysis the gym dataset.

Coding:

Code of some project modules:

Landing page:

```
class LandingPageClass:
 def init (self):
   self.root = tk.Tk()
   self.root.title("Sign Up")
   self.root.state("zoom")
   icon path = 'gymlcon.ico'
   self.root.iconbitmap(icon_path)
   user32 = ctypes.windll.user32
   screen width = user32.GetSystemMetrics(0)
   screen height = user32.GetSystemMetrics(1)
   self.photo = Image.open("risen-wang-20jX9b35r M-unsplash.jpg")
   self.photo = self.photo.resize((screen width, screen height))
   self.photo = ImageTk.PhotoImage(self.photo)
   self.bg_label = tk.Label(self.root, image=self.photo)
   self.bg_label.place(relwidth=1, relheight=1)
   deficon_r():
     messagebox.showinfo("Secured!", "Verified mark thank you!")
   def clicked login():
     self.root.destroy()
     # self.root.withdraw()
   def clicked_owner_signup():
     self.root.destroy()
     signup_page.place_widgets()
   def clicked user signup():
     self.root.destroy()
     signup_page.place_widgets()
   txt = 'Welcome to MyGym'
   | Ibl = tk.Label(self.bg_label, font='Bell 36 bold', width=len(txt), background='black', foreground='white')
   login_button = tk.Button(self.bg_label, command=clicked_login, text="Login", background='pink')
   original icon = tk.Button(self.bg label, command=icon r, text="R", background='red')
   lbl.place(x=10, y=10)
   login_button.place(x=1200, y=20)
   original icon.place(x=865, y=10)
   login_button.config(height=2, width=7)
   lbl.pack(pady=5)
   defanimate label(text, n=0):
     if n < len(text) - 1:
      lbl.after(100, animate_label, text, n + 1)
     lbl['text'] = text[:n + 1]
   self.bg_label.after(1000, animate_label, txt)
```

```
canvas = tk.Canvas(self.bg label)
 canvas_text = canvas.create_text(10, 10, text=", anchor=tk.NW, fill='white', font=5)
 welcome gym owner = "" Welcome to the fitness haven you've been searching for! \n" \
          "At MyGym, we're committed to providing you \n" \
          "with the best fitness experience possible. Whether you're \n" \
          "a seasoned fitness enthusiast or just starting your fitness \n"
          "journey, our state-of-the-art equipment, expert trainers, and \n" \
          "a supportive community are here to help you reach your goals.\n"
          "Join us today and embark on a fitness adventure like no other. "\n\n\"
          ""Your dream body and a healthier lifestyle are just a workout away!\n"\
          "Are you ready to revolutionize your gym management experience? \n" \
          "Look no further! We understand the challenges you face in running \n" \
          "a successful fitness facility, from member management to equipment\n"
          " maintenance and everything in between. Our gym management solutions\n" \
          "are designed to make your life easier, allowing you to focus on \n"
          "what you do best - helping your members achieve their fitness goals.\n"\
          "Join us today and take the first step towards an efficient, streamlined, \n" \
          " and prosperous gym operation. ""
 delta = 10
 delav = 0
 for i in range(len(welcome_gym_owner) + 1):
   update_text = lambda s=s: canvas.itemconfigure(canvas_text, text=s)
   canvas.place(x=100, y=100)
   canvas.configure(background='gray')
   canvas.config(height=450, width=650)
   canvas.after(delay, update_text)
 owner = tk.Button(self.root, command=clicked owner signup, text="Make your own inventory", width=15, font=10,
         highlightthickness=2,
         background='pink',
         fg='maroon', bd=5)
 user = tk.Button(self.root, command=clicked user signup, text="Book your first Appointment", width=15, font=10,
         highlightthickness=2.
         background='pink',
         fg='maroon', bd=5)
 owner.config(height=2, width=30)
 user.config(height=2, width=30)
 owner.place(x=900, y=350)
 user.place(x=900, y=450)
def run(self):
 self.root.mainloop()
```

Admin Dashboard

```
class OwnerDashboardClass:
    def __init__(self):
        self.root = tk.Tk()
```

```
self.root.state('zoom')
self.root.title("Owner Dashboard")
icon path = 'gymlcon.ico'
self.root.iconbitmap(icon_path)
user32 = ctypes.windll.user32
screen width = user32.GetSystemMetrics(0)
screen_height = user32.GetSystemMetrics(1)
image = Image.open("dashboardbackgroundImage.jpg")
image = image.resize((screen width, screen height))
self.photo = ImageTk.PhotoImage(image)
self.bg_label = tk.Label(self.root, image=self.photo)
self.bg label.place(relwidth=1, relheight=1)
def prevPage():
 self.root.destroy()
self.prev_button = tk.Button(self.root, command=prevPage, text=" < ", background='pink')
self.prev button.place(x=10, y=15)
def manage membership():
 self.root.destroy()
def manage appointments():
 self.root.destroy()
def manage_Profile():
 self.root.destroy()
def manage_inventory():
 self.root.destroy()
 OwnerInventryAndSupplies.inventory()
def reportsAndAnalytics():
 print()
def manage_billing():
messagebox.showinfo("Manage Billing", "manage billing")
membership_button = tk.Button(self.root, text="Manage Memberships", command=manage_membership,
             background='pink', bd=20)
billing_button = tk.Button(self.root, text="Manage Billing", command=manage_billing, background='Cyan',
           bd=20)
classes button = tk.Button(self.root, text="Appointments", command=manage appointments, background='Gray',
           bd=20)
communication_button = tk.Button(self.root, text="Reports and Analytics", command=reportsAndAnalytics,
              background='Crimson', bd=20)
feedback_button = tk.Button(self.root, text="Member Profile", command=manage_Profile, background='pink',
```

```
bd=20)
integrations button = tk.Button(self.root, text="Inventory and Supplies", command=manage inventory,
             background='Teal', bd=20)
membership_button.grid(row=0, column=0, padx=10, pady=10)
billing button.grid(row=0, column=1, padx=10, pady=10)
classes_button.grid(row=0, column=2, padx=10, pady=10)
communication_button.grid(row=1, column=0, padx=10, pady=10)
feedback_button.grid(row=1, column=1, padx=10, pady=10)
integrations_button.grid(row=1, column=2, padx=10, pady=10)
membership button.place(x=250, y=200)
billing_button.place(x=550, y=200)
classes_button.place(x=850, y=200)
communication_button.place(x=250, y=400)
feedback button.place(x=550, y=400)
integrations_button.place(x=850, y=400)
membership_button.config(height=5, width=20)
billing_button.config(height=5, width=20)
classes button.config(height=5, width=20)
communication_button.config(height=5, width=20)
feedback_button.config(height=5, width=20)
integrations_button.config(height=5, width=20)
```

def run(self): self.root.mainloop()

User Dashboard:

import tkinter as tk

```
from tkinter import messagebox
from PIL import Image, ImageTk
import ctypes
import buymembership
import book_appointments
import login
import userInventoryAndSupplies

class userDashboardClass:
    def_init_(self, username):
        self.root = tk.Tk()
```

self.root.state('zoom')

```
self.root.title("User Dashboard")
icon path = 'gymlcon.ico'
self.root.iconbitmap(icon path)
user32 = ctypes.windll.user32
screen width = user32.GetSystemMetrics(0)
screen_height = user32.GetSystemMetrics(1)
image = Image.open("dashboardbackgroundImage.jpg")
image = image.resize((screen_width, screen_height))
self.photo = ImageTk.PhotoImage(image)
self.bg_label = tk.Label(self.root, image=self.photo)
self.bg_label.place(relwidth=1, relheight=1)
def manage membership():
 self.root.destroy()
 buymembership.MembershipClass(username).run()
def manage_appointment():
 self.root.destroy()
 book_appointments.book_appointment_class(username).run()
def manage_inventory():
 self.root.destroy()
 userInventoryAndSupplies.inventory(username)
def prevPage():
 self.root.destroy()
self.prev_button = tk.Button(self.root, command=prevPage, text=" < ", background='pink')
self.prev button.place(x=10, y=15)
membership_button = tk.Button(self.root, text="Buy Memberships", command=manage_membership,
             background='pink', bd=20)
classes_button = tk.Button(self.root, text="Book Appointments", command=manage_appointment, background='Gray',
           bd=20)
integrations_button = tk.Button(self.root, text="Available equipment\n and Supplies",
             command=manage_inventory, background='Teal', bd=20)
profile = tk.Label(self.root, text="Hello, Welcome" + username, font=10, background="#f4f2f5", foreground='black', bd=25)
membership_button.grid(row=0, column=0, padx=10, pady=10)
classes_button.grid(row=0, column=2, padx=10, pady=10)
```

```
integrations_button.grid(row=1, column=2, padx=10, pady=10)
   membership_button.place(x=700, y=100)
   classes_button.place(x=700, y=300)
   integrations_button.place(x=700, y=500)
   profile.place(x=20, y=45)
   membership_button.config(height=5, width=20)
   classes_button.config(height=5, width=20)
   integrations_button.config(height=5, width=20)
   profile.config(height=1, width=20)
 def run(self):
   self.root.mainloop()
Appointment Managing:
import json
from tkinter import *
import tkinter as tk
from tkinter import messagebox
from PIL import Image, ImageTk
import ctypes
import Owner_Dashboard
import firebase_connection
def manage_appointment():
 root = Tk()
 root.state('zoom')
 root.title('appointments')
 root.configure(bg='lightblue')
 sb = Scrollbar(root, width=50, bg='black')
 sb.pack(side=RIGHT, fill=Y)
 user32 = ctypes.windll.user32
 screen_width = user32.GetSystemMetrics(0)
 screen height = user32.GetSystemMetrics(1)
 image = Image.open("jelmer-assink-gzeTjGu3b_k-unsplash.jpg")
 image = image.resize((screen_width, screen_height))
 image = ImageTk.PhotoImage(image)
```

```
bg_label = tk.Label(root, image=image)
bg_label.place(relwidth=1, relheight=1)
def prevPage():
 Owner_Dashboard.OwnerDashboardClass()
prev_button = tk.Button(root, command=prevPage, text=" < ", background='pink')
prev_button.place(x=10, y=15)
mylist = Listbox(root, yscrollcommand=sb.set, height=25, width=60, background='gray', fg='white', border=20, font=10)
mylist.insert(END, "!!! APPOINTMENTS LIST !!!")
json_data = firebase_connection.sending_appointments_data()
# Converting JSON to a string with line-separated data
json_string = json.dumps(json_data, indent=4) # Converting to a formatted JSON string
lines = json_string.splitlines() # Splitting the string into lines
if lines:
 for line in lines:
else:
 messagebox.showerror('error', 'an error occurred while loading data try to re-open!')
mylist.pack(side=RIGHT)
sb.config(command=mylist.yview)
```

Membership_purchage:

```
class MembershipClass:
    def __init__(self, username):
        self.root = tk.Tk()
        self.root.state('zoom')
        self.root.title("Owner Dashboard")
        self.root.configure(background='lightblue')
        icon_path = 'gymlcon.ico'
        self.root.iconbitmap(icon_path)

        self.screen_width = self.user32.GetSystemMetrics(0)
        self.screen_height = self.user32.GetSystemMetrics(1)
```

```
self.image = Image.open("jelmer-assink-gzeTjGu3b_k-unsplash.jpg")
self.image = self.image.resize((self.screen_width, self.screen_height))
self.image = ImageTk.PhotoImage(self.image)
self.bg label = tk.Label(self.root, image=self.image)
self.bg_label.place(relwidth=1, relheight=1)
self.plan = ""
self.price = 0
membership_plan_selected_label = tk.Label(self.root, font=10, background='lightblue', foreground='red')
membership_plan_selected_label.place(x=605, y=370)
defone_month_plan():
 self.plan = '* One month plan selected.'
 membership_plan_selected_label.config(text=self.plan)
 self.price = 1000
def three_month_plan():
 self.plan = '* Three month plan selected.'
 membership_plan_selected_label.config(text=self.plan)
 self.price = 2500
def six_month_plan():
 self.plan = '* Six month plan selected.'
 membership_plan_selected_label.config(text=self.plan)
 self.price = 4500
def one_year_plan():
 self.plan = '* One Year plan selected.'
 membership_plan_selected_label.config(text=self.plan)
 self.price = 8000
def prevPage():
 self.root.destroy()
 user_dashboard.userDashboardClass(username)
self.prev_button = tk.Button(self.root, command=prevPage, text=" < ", background='pink')
self.prev_button.place(x=10, y=15)
# Create labels
name_label = tk.Label(self.root, text="Name:", font=10, background='lightblue', foreground='black')
age_label = tk.Label(self.root, text="Age: ", font=10, background='lightblue', foreground='black')
```

```
# Create entry widgets
self.name entry = tk.Entry(self.root, width=25, font=10, highlightthickness=2, highlightbackground='black',
           bd=3
self.age_entry = tk.Entry(self.root, width=25, font=10, highlightthickness=2, highlightbackground='black', bd=3)
def data_saved():
 name = self.name entry.get()
 age = self.age_entry.get()
 if not name or not age:
   messagebox.showerror('data', 'please fill all the fields')
   return
 if not self.plan:
   messagebox.showerror('plan', 'Please select atleast one plan!')
   return
 if firebase connection.membership data(username, name, age, plan-self.plan, price-self.price):
   messagebox.showinfo('submit', 'Submitted successfully!')
   self.root.destroy()
   user_dashboard.userDashboardClass(username)
# Create a register button
submit button = tk,Button(self.root, text="Submit & save", command=data saved, width=15, font=10,
           highlightthickness=2, background='pink', fg='maroon', bd=3)
# Create buttons for the selected modules
one_month_plan_button = tk.Button(self.root, text="1 Month plan\n1000/.\n\n Click here.", command=one_month_plan,
               background='pink'
               bd=5. font=5)
three_month_plan_button = tk.Button(self.root, text="3 Month plan\n2500/.\n\n Click here.", command=three_month_plan,
               background='Cyan',
               bd=5, font=5)
six_month_plan_button = tk.Button(self.root, text="6 Month plan\n4500/.\n\n Click here.", command=six_month_plan,
              background='Gray',
              bd=5. font=5)
one_year_plan_button = tk.Button(self.root, text="1 Year plan\n8000/.\n\n Click here.", command=one_year_plan,
              background='Crimson', bd=5, font=5)
available_prices = tk.Label(self.root, text="Available prices: ", background="lightblue", font=10, border=15, fg='black')
# Place buttons on the dashboard using the grid layout manager
one_month_plan_button.grid(row=0, column=0, padx=10, pady=10)
three_month_plan_button.grid(row=0, column=1, padx=10, pady=10)
six_month_plan_button.grid(row=0, column=2, padx=10, pady=10)
one_year_plan_button.grid(row=1, column=0, padx=10, pady=10)
```

```
# place of button
 one month plan button.place(x=250, y=50)
 three_month_plan_button.place(x=450, y=50)
 six_month_plan_button.place(x=650, y=50)
 one_year_plan_button.place(x=850, y=50)
 available prices.place(x=50, y=150)
 name_label.place(x=530, y=410)
 age_label.place(x=530, y=450)
 self.name_entry.place(x=600, y=400)
 self.age_entry.place(x=600, y=440)
 submit_button.place(x=708, y=490)
 # box style buttons
 one_month_plan_button.config(height=5, width=13)
 three_month_plan_button.config(height=5, width=13)
 six_month_plan_button.config(height=5, width=13)
 one_year_plan_button.config(height=5, width=13)
def run(self):
 self.root.mainloop()
```

Managing Profile:

```
def manage_member_profile():
    root = Tk()
    root.state('zoom')
    root.configure(bg='lightblue')
    icon_path = 'gymlcon.ico'
    root.iconbitmap(icon_path)

user32 = ctypes.windll.user32
    screen_width = user32.GetSystemMetrics(0)
    screen_height = user32.GetSystemMetrics(1)

image = Image.open("jelmer-assink-gzeTjGu3b_k-unsplash.jpg")
    image = image.resize((screen_width, screen_height))
    image = ImageTk.PhotoImage(image)

bg_label = tk.Label(root, image=image)
    bg_label.place(relwidth=1, relheight=1)

def prevPage():
```

```
Owner Dashboard.OwnerDashboardClass()
 prev button = tk.Button(root, command=prevPage, text=" < ", background='pink')
 prev_button.place(x=10, y=15)
 sb = Scrollbar(root, width=50, bg='black')
 sb.pack(side=RIGHT, fill=Y)
 mylist = Listbox(root, yscrollcommand=sb.set, height=25, width=60, background='gray', fg='white', border=20, font=10)
 mylist.insert(END, "!!! PROFILE OF ALL MEMBERS !!!")
 json_data = firebase_connection.sending_member_profile_data()
 # Converting JSON to a string with line-separated data
 json string = json.dumps(json data, indent=4) # Converting to a formatted JSON string
 lines = json_string.splitlines() # Splitting the string into lines
 if lines:
   for line in lines:
     mylist.insert(END, line)
 else
   messagebox.showerror('error', 'an error occurred while loading data try to re-open!')
 mylist.pack(side=RIGHT)
 sb.config(command=mylist.yview)
Admin signup:
class SignupClass:
 def_init_(self)
   self.root = tk.Tk()
   self.root.title("Admin sign up")
   self.root.state("zoom")
   self.root.configure(background='lightblue')
   user32 = ctypes.windll.user32
   screen width = user32.GetSystemMetrics(0)
   screen_height = user32.GetSystemMetrics(1)
   image = Image.open("risen-wang-20jX9b35r_M-unsplash.jpg")
   image = image.resize((screen_width, screen_height))
```

self.photo = ImageTk.PhotoImage(image)

```
self.bg label.place(relwidth=1, relheight=1)
   def prevPage():
     self.root.destroy()
     landingPage.LandingPageClass()
   self.prev_button = tk.Button(self.root, command=prevPage, text=" < ", background='pink')
   self.prev button.place(x=10, y=15)
   self.username label = tk.Label(self.root, text="Username:", font=10, background='gray', foreground='white', bd=35)
   self.password_label = tk.Label(self.root, text="Password:", font=10, background='gray', foreground='white', bd=35)
   self.confirm_password_label = tk.Label(self.root, text="Confirm Password:", font=10, background='gray', foreground='white', bd=35)
   self.username entry = tk.Entry(self.root, width=25, font=10, highlightthickness=2, highlightbackground='black', bd=3)
   self.password_entry = tk.Entry(self.root, show="*", width=25, font=10, highlightthickness=2, highlightbackground='black', bd=3)
   self.confirm_password_entry = tk.Entry(self.root, show="*", width=25, font=10, highlightthickness=2, highlightbackground='black', bd=3)
   self.register_button = tk.Button(self.root, text="Register", command=self.register, width=15, font=10, highlightthickness=2, background='pink',
fg='maroon', bd=3)
   self.window_width = screen_width
   self.window height = screen height
 def register(self):
   username = self.username_entry.get()
   password = self.password entry.get()
   confirm_password = self.confirm_password_entry.get()
   if not username or not password or not confirm_password:
     messagebox.showerror("Error", "Please fill in all fields.")
   elif password != confirm password:
     messagebox.showerror("Error", "Passwords do not match.")
   else:
     if firebase_connection.create_owner_login_id(username, password):
      Owner_Dashboard.OwnerDashboardClass().run()
      self.root.destroy()
     else
      messagebox.showerror('Signup failed!', 'It looks somthing wrong try again!')
 def place_widgets(self):
   label_x = self.window_width // 2
   label_y = self.window_height // 2
```

self.bg label = tk.Label(self.root, image=self.photo)

```
entry_x = label_x + 100 # Adjust as needed
   entry y = label y
   button x = label x
   button y = label y + 100 # Adjust as needed
   self.username label.place(x=label x+30, y=label y-80, anchor="center")
   self.username_entry.place(x=entry_x + 20, y=entry_y - 50, anchor="center")
   self.password_label.place(x=label_x+30, y=label_y-15, anchor="center")
   self.password_entry.place(x=entry_x + 20, y=entry_y + 15, anchor="center")
   self.confirm password label.place(x=label x + 67, y=label y + 50, anchor="center")
   self.confirm password entry.place(x=entry x + 19, y=entry y + 80, anchor="center")
   self.register button.place(x=button x + 173, y=button y + 25, anchor="center")
 def run(self):
   self.root.mainloop()
User Signup:
class SignupClass:
 def init (self):
   self.root = tk.Tk()
   self.root.title("User sign up")
   self.root.state("zoom")
   self.root.configure(background='lightblue')
   user32 = ctypes.windll.user32
   screen width = user32.GetSystemMetrics(0)
   screen height = user32.GetSystemMetrics(1)
   image = Image.open("risen-wang-20jX9b35r_M-unsplash.jpg")
   image = image.resize((screen_width, screen_height))
   self.photo = ImageTk.PhotoImage(image)
   self.bg_label = tk.Label(self.root, image=self.photo)
   self.bg_label.place(relwidth=1, relheight=1)
   def prevPage():
```

self.prev_button = tk.Button(self.root, command=prevPage, text=" < ", background='pink')

self.username_label = tk.Label(self.root, text="Username:", font=10, background='gray', foreground='white', bd=35) self.password label = tk.Label(self.root, text="Password:", font=10, background='gray', foreground='white', bd=35)

self.confirm_password_label = tk.Label(self.root, text="Confirm Password:", font=10, background='gray', foreground='white', bd=35)

self.root.destroy()

self.prev_button.place(x=10, y=15)

```
self.username entry = tk.Entry(self.root, width=25, font=10, highlightthickness=2, highlightbackground='black', bd=3)
   self.password_entry = tk.Entry(self.root, show="*", width=25, font=10, highlightthickness=2, highlightbackground='black', bd=3)
   self.confirm password entry = tk.Entry(self.root, show="*", width=25, font=10, highlightthickness=2, highlightbackground='black', bd=3)
   self.register_button = tk.Button(self.root, text="Register", command=self.register, width=15, font=10, highlightthickness=2, background='pink',
fg='maroon', bd=3)
   self.window_width = screen_width
   self.window height = screen height
 def register(self):
   username = self.username_entry.get()
   password = self.password_entry.get()
   confirm_password = self.confirm_password_entry.get()
   if not username or not password or not confirm_password:
     messagebox.showerror("Error", "Please fill in all fields.")
   elif password != confirm_password:
     messagebox.showerror("Error", "Passwords do not match.")
   else:
     if firebase connection.create user login id(username, password):
      user_dashboard.userDashboardClass(username).run()
      self.root.destroy()
      landingPage.landing_page()
     else
      messagebox.showerror('Signup failed!', 'It looks somthing wrong try again!')
 def place_widgets(self):
   label x = self.window width // 2
   label_y = self.window_height // 2
   entry_x = label_x + 100 # Adjust as needed
   entry y = label y
   button x = label x
   button_y = label_y + 100 # Adjust as needed
   self.username_label.place(x=label_x + 30, y=label_y - 80, anchor="center")
   self.username_entry.place(x=entry_x + 20, y=entry_y - 50, anchor="center")
   self.password_label.place(x=label_x+30, y=label_y-15, anchor="center")
   self.password_entry.place(x=entry_x + 20, y=entry_y + 15, anchor="center")
   self.confirm_password_label.place(x=label_x + 67, y=label_y + 50, anchor="center")
   self.confirm_password_entry.place(x=entry_x + 19, y=entry_y + 80, anchor="center")
   self.register_button.place(x=button_x + 173, y=button_y + 25, anchor="center")
```

```
def run(self):
    self.root.mainloop()
```

Admin and user Login:

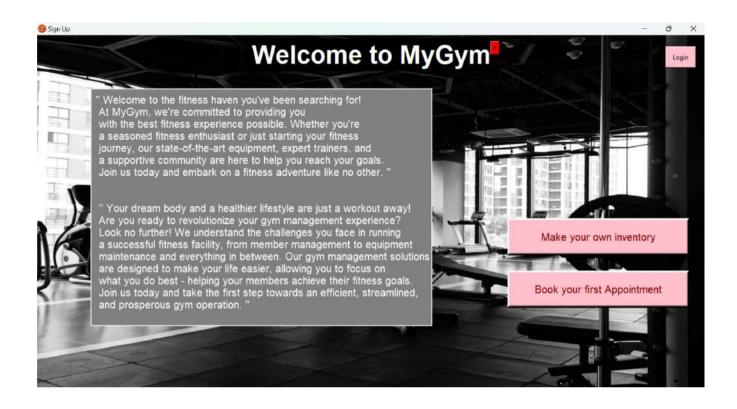
```
class LoginClass:
 def__init__(self):
   self.root = tk.Tk()
   self.root.title("Login")
   self.root.state("zoom")
   self.root.configure(background='lightblue')
   icon_path = 'gymlcon.ico'
   self.root.iconbitmap(icon_path)
   self.user32 = ctypes.windll.user32
   self.screen_width = self.user32.GetSystemMetrics(0)
   self.screen_height = self.user32.GetSystemMetrics(1)
   self.image = Image.open("risen-wang-20jX9b35r_M-unsplash.jpg")
   self.image = self.image.resize((self.screen_width, self.screen_height))
   self.image = ImageTk.PhotoImage(self.image)
   self.bg_label = tk.Label(self.root, image=self.image)
   self.bg_label.place(relwidth=1, relheight=1)
   def prevPage():
     self.root.destroy()
     landingPage.LandingPageClass()
   self.prev_button = tk.Button(self.root, command=prevPage, text=" < ", background='pink')
   self.prev_button.place(x=10, y=15)
   self.username_label = tk.Label(self.root, text="Username:", font=10, background='gray', foreground='white',
                 bd=35)
   self.password_label = tk.Label(self.root, text="Password:", font=10, background='gray', foreground='white',
                 bd = 35)
   self.username_entry = tk.Entry(self.root, width=25, font=10, highlightthickness=2, highlightbackground='black',
                 bd=3)
   self.password_entry = tk.Entry(self.root, show="*", width=25, font=10, highlightthickness=2,
                 highlightbackground='black', bd=3)
   self.register_button = tk.Button(self.root, text="Login", command=self.register, width=15, font=10,
                  highlightthickness=2, background='pink', fg='maroon', bd=3)
```

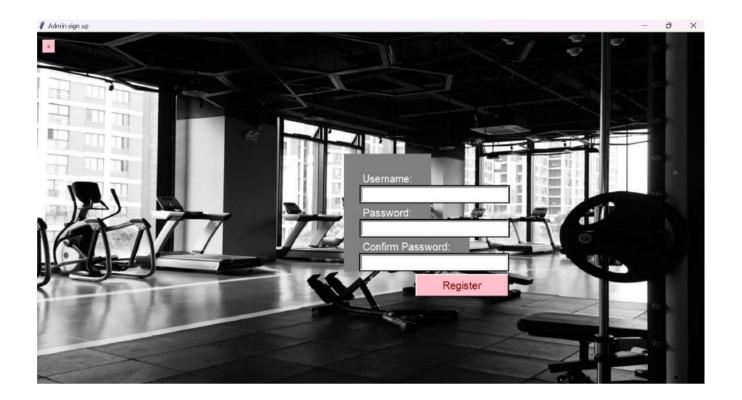
```
self.center_widgets(self.screen_width, self.screen_height)
 # creating animative switch to ask user of owner login
 self.canvas = tk.Canvas(self.root, width=100, height=20, bg="white")
 self.canvas.place(x=800, y=288)
 self.switch_button = self.canvas.create_rectangle(0, 20, 50, 0, fill="green", outline="black")
 self.left_label = tk.Label(self.root, text="ADMIN\t\t", font=("Helvetica", 7), background='black', foreground='red')
 self.left_label.place(x=802, y=270)
 self.right_label = tk.Label(self.root, text="USER", font=("Helvetica", 7), background='black', foreground='red')
 self.right_label.place(x=870, y=270)
 self.switch_state = False # Represents the state of the slide switch
 self.canvas.bind("<Button-1>", self.toggle_switch)
# getting the switch value for knowing that who is logging____
switch_data = True
def toggle switch(self, event):
 if self.switch state:
   self.slide_to_left()
 else:
   self.slide_to_right()
def slide_to_left(self):
 self.switch data = True
 if self.switch_state:
   for i in range(40):
     self.canvas.move(self.switch_button, -1, 0)
     self.root.update()
     self.root.after(1)
   self.switch state = False
def slide_to_right(self):
 self.switch_data = False
 if not self.switch state:
   for i in range(50):
     self.canvas.move(self.switch_button, 1, 0)
     self.root.update()
     self.root.after(1)
   self.switch_state = True
```

```
def register(self):
 username = self.username entry.get()
 password = self.password_entry.get()
 if not username or not password:
   messagebox.showerror("Error", "Please fill in all fields.")
 else
   if self.switch data:
     if firebase_connection.checking_owner_login_credential(username, password):
       self.root.destroy()
      Owner Dashboard.OwnerDashboardClass().run()
     else
       messagebox.showerror('Not found', 'username/password is invalid!')
   else
     if firebase_connection.checking_user_login_credential(username, password):
       self.root.destroy()
     else:
       messagebox.showerror('Not found', 'username/password is invalid!')
def center_widgets(self, window_width, window_height):
 label_x = window_width // 2
 label_y = window_height // 2
 entry_x = window_width // 2 + 100
 entry_y = window_height // 2
 button_x = window_width // 2
 button_y = window_height // 2 + 100
 self.username_label.place(x=label_x+30, y=label_y-50, anchor="center")
 self.username_entry.place(x=entry_x + 20, y=entry_y - 20, anchor="center")
 self.password_label.place(x=label_x + 30, y=label_y + 15, anchor="center")
 self.password entry.place(x=entry x + 20, y=entry y + 45, anchor="center")
 self.register_button.place(x=button_x + 173, y=button_y - 10, anchor="center")
def start(self):
 self.root.mainloop()
```

Screenshot output:

Activity part:

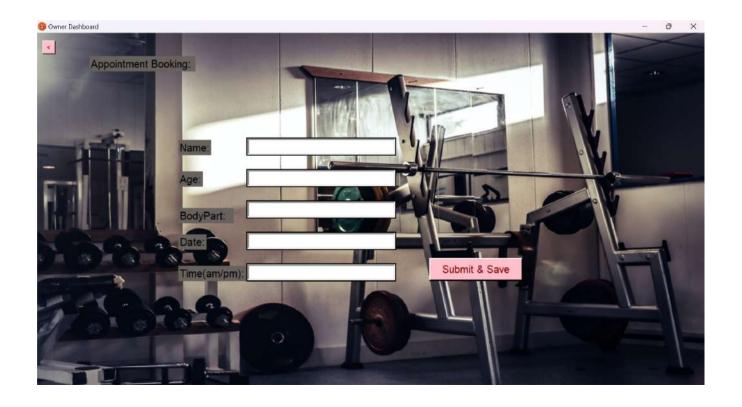


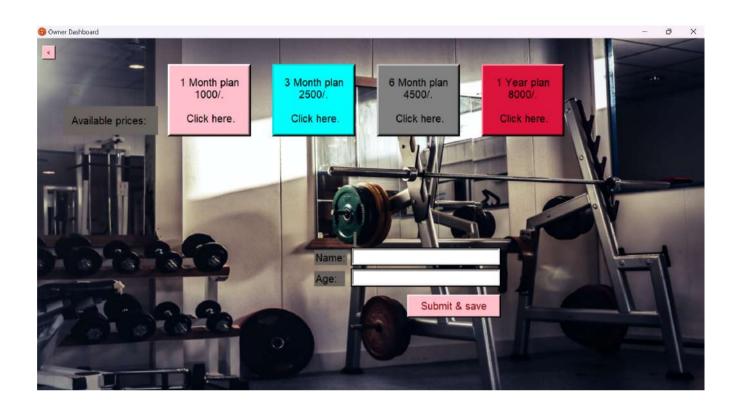


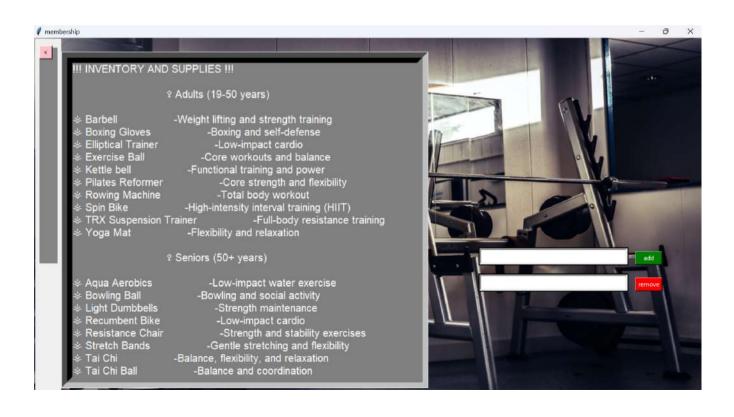






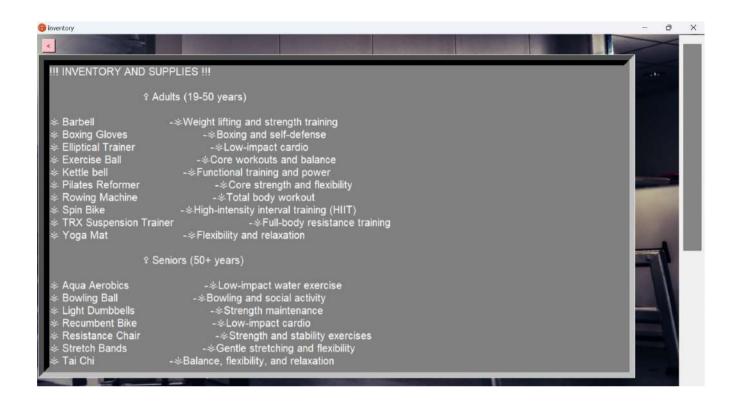












• Analysis part:

