**DBT 1303 Software Development**

**Software Development Project using Python**

**DBT1303\_SoftwareDevNov2022\_PythonProject\_GroupA or B** etc

**Demonstration**

We will have a demonstration of the project in 2 sessions…23 Nov & 24 Nov. Details will be shared after Part 1 is submitted.

from click.\_compat import raw\_input

from GymManager import GymManager

from Customer import Customer

from Package import Package

gymManager = GymManager()

print ("\n")

print (" \*\*\*\*\*The Body Shop Fitness Center\*\*\*\*\*")

print ("Select the Option from Menu")

def menu():

print ("1. Add Customer")

print ("2. Add Package")

print ("3. Show all packages")

print ("4. Show all customers")

print ("5. Find customer by name")

print ("6. Add Subscription")

print ("7. Add Payment")

print ("8. Show this menu again")

print ("\nEnter You Choice: ")

menu()

while(True):

input = int(raw\_input())

if input == 1:

name = str(raw\_input("Enter customer's name - "))

phoneNo = str(raw\_input("Enter customer's phone no. - "))

joinDate = str(raw\_input("Enter joining date - "))

customer = Customer(name, phoneNo, joinDate)

gymManager.addCustomer(customer)

elif input == 2:

type = str(raw\_input("Enter package type - "))

facilities = str(raw\_input("Enter facilities - "))

cost = int(raw\_input("Enter package cost - "))

package = Package(type, facilities, cost)

gymManager.addPackage(package)

elif input == 3:

print ("PackageID\tType\tFacilities\tCost")

for pkgId in gymManager.packages.keys():

package = gymManager.packages[pkgId]

packageId = pkgId

type = package.getType()

facilities = package.getFacilities()

cost = package.getCost()

print (str(packageId) + "\t" + type + "\t" + facilities + "\t" + str(cost))

elif input == 4:

print ("CustomerID\tName\tPhone\tJoining Date")

for cusId in gymManager.customers.keys():

customer = gymManager.customers[cusId]

customerId = cusId

name = customer.getName()

phoneNo = customer.getPhoneNo()

joinDate = customer.getJoiningDate()

print (str(customerId) + "\t" + name + "\t" + phoneNo + "\t" + joinDate)

elif input == 5:

name = str(raw\_input("Enter customer name - "))

customerId = -1

for cusId in gymManager.customers.keys():

customer = gymManager.customers[cusId]

if customer.getName() == name:

print (customer)

customerId = cusId

break;

if customerId == -1:

print ("Customer with name - {0} not found").format(name)

else:

packageDict = gymManager.subscriptions.get(customerId)

print ("Customer found", gymManager.customers[customerId])

if packageDict != {}:

print ("Subscribed to"),

for pkgId in packageDict.keys():

print (gymManager.packages[pkgId], "for {0} months".format(gymManager.subscriptions[customerId][packageId]))

else:

print ("No subscription found for this customer")

elif input == 6:

name = str(raw\_input("Enter customer name - "))

customerId = -1

for cusId in gymManager.customers.keys():

customer = gymManager.customers[cusId]

if customer.getName() == name:

print (customer)

customerId = cusId

break;

if customerId == -1:

print ("Customer with name - {0} not found.").format(name)

print ("Try adding a new customer.")

else:

print ("Customer found", gymManager.customers[customerId])

if gymManager.packages.keys():

for pkgId in gymManager.packages.keys():

print (pkgId, gymManager.packages[pkgId])

packageId = int(raw\_input("Select a package: "))

if packageId > max(gymManager.packages.keys()):

print ("Please select a valid package.")

else:

months = int(raw\_input("Enter no. of months"))

gymManager.addSubscription(gymManager.customers[customerId], gymManager.packages[packageId], months)

print ("Subscription added.")

else:

print("No package exists. Try adding a package first.")

elif input == 7:

name = str(raw\_input("Enter customer name - "))

customerId = -1

for cusId in gymManager.customers.keys():

customer = gymManager.customers[cusId]

if customer.getName() == name:

print (customer)

customerId = cusId

break;

if customerId == -1:

print ("Customer with name - {0} not found.").format(name)

print ("Try adding a new customer.")

else:

print ("Customer found", gymManager.customers[customerId])

if gymManager.packages.keys():

for pkgId in gymManager.packages.keys():

print (pkgId, gymManager.packages[pkgId])

packageId = int(raw\_input("Select a package"))

if packageId > max(gymManager.packages.keys()):

print ("Please select a valid package.")

else:

if gymManager.subscriptions[customerId][packageId] > 0:

customer = gymManager.customers[customerId]

package = gymManager.packages[packageId]

gymManager.addPayment(customer, package, package.getCost())

print ("Payment added. Subscription expires in {0} months.").format(gymManager.subscriptions[customerId][packageId])

elif input == 8:

menu()

elif input == 9:

gymManager.save()

exit(0)

else:

print ("Please enter a valid number")

menu()