**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY RAJAGIRI SCHOOL OF SCIENCE AND TECHNOLOGY**

**Micro-project**

**SHIP INVENTORY SYSTEM**

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**SYNOPSIS**

Data Tracking has emerged as one of the most important criteria necessary in almost all fields where transactions take place .In ship usually the captain is held as the in charge for the entire activities that takes place on the ship. The captain is entitled to maintain the items within the inventory, he canupdate the stock with new variety of products bought usually at large quantities at cheaper rates. All the customers can purchase the items with the customer id and password .

**DESCRIPTION**

The program starts of with an authorized username and password other than the customer id .Only the authorized person can update the existing stock with newer products or increase the quantity of existing stock, also the items sold on board of the ship can be viewed by the officer,while the customer have the rights of placing the orders for items which are presently available . After a successful login the main task tool comes to action.The latter accepts the task from the user and executes it.The various task totally in the system are:

UPADTE STOCK: Used to update the existing stock by an authorized official.

PLACE ORDER:Used to place orders for items present in the inventory by the customers.

ITEMS SOLD:Used to display entire record log of the items sold.

LOGOUT:Used to switch user in the program

QUIT:Used to exit from the program

The task tool is avaible after each task is carried out, its helps maintain a continuous flow to the program.

**WORKING**

The program is similar to database management system except the difference is that the database are text files .which has been designed to store, add, edit the values in it only by running the program The data records for the items are stored in a text file ”ship\_log1.txt” in the form of dictionaries and the items-sold are recorded in another text file “ship\_log2.txt”both these files provide the database of the program.

**SOURCE CODE**

#SHIP INVENTORY RECORD

#--------------------------------------------------------------------------------

import string,time,pickle

#-----------------------------------------------------------------------------

#VIEW FUNCTION

def view\_stk(f,c):

value=[]

flag=0

d={}

while True:

try:

z=pickle.load(f)

except EOFError:

break

else:

key=z.keys()

t=z.values()

if c==1:

if flag==0:

print("[ Batch code :Prdt type :Prdt name :Qty :Cost price ]")

flag=1

print("["+t[0][0]+","+t[0][1]+","+t[0][2]+",",t[0][3],t[0][4],"]")

elif c==2:

if flag==0:

print("[ Batch code :Prdt type :Prdt name :Qty ]")

flag=1

print("["+t[0][0]+":"+t[0][1]+":"+t[0][2]+":",t[0][3],"]")

value.append(t)

return

#-------------------------------------------------------------------------------

#UPDATE FUNCTION

def update\_stk(f1):

cnt=input("Total no. of updates to be made: ")

while (cnt>0):

d={}

batch\_no=raw\_input("Enter batch code: ")

prd\_type=raw\_input("Enter product type: ")

prd\_name=raw\_input("Enter product name: ")

qty=input("Enter Quantity: ")

cost=input("Enter cost price: ")

d[prd\_name]=[batch\_no,prd\_type,prd\_name,qty,cost]

pickle.dump(d,f1)

f1.flush()

cnt=cnt-1

print "\*"\*75

return

#------------------------------------------------------------------------------

#PLACE ORDER FUNCTION

def order(f1,bill,sp):

ptype=raw\_input("Enter product type: ")

pname=raw\_input("Enter product name: ")

qty=input("Enter quantity: ")

content=[]

while True:

try:

z=pickle.load(f1)

except EOFError:

break

else:

key=z.keys()

t=z.values()

if pname==key[0]:

batch\_no=t[0][0]

cost=t[0][4]

pqty=t[0][3]

if qty>pqty :

print "Sorry,Only ",pqty,"items left."

break

elif pqty<10:

print "Limited Stock!"

fqty=pqty-qty

t[0][3]=fqty

fcost=qty\*1.4\*cost

sp=sp+fcost

q=[batch\_no,ptype,pname,qty,fcost]

bill.append(q)

content.append(t)

f3=open("ship\_log1.txt","w")

for i in content:

d={}

key=i[0][2]

value=i[0]

d[key]=value

pickle.dump(d,f3)

f2.flush()

f3.close()

return sp,bill,f1

#----------------------------------------------------------------------------

#LOGIN

def login():

user=""

print ('# FOR CUSTOMERS :\n\tUSERNAME:CUSTOMER\n\tPASSWORD:123')

user=raw\_input("Enter Username: ")

pwd=raw\_input("Enter Password: ")

if user=="GLIN" and pwd=="20041997":

print ("Veriying user....")

time.sleep(2)

print("HELLO GLIN")

print("Loading databases...Please wait")

time.sleep(5)

elif user=="CUSTOMER" and pwd=="123":

print ("Veriying user....")

time.sleep(2)

print("Loading databases...Please wait")

time.sleep(5)

else:

print ("ACCESS DENIED")

return user,pwd

#-------------------------------------------------------------------------------

#MAIN PROGRAM

print "Welcome to Ship Inventory System"

time.sleep(2)

user,pwd=login()

bill=[]

math=1;flag=0

sp=0

while True:

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

if user=="GLIN" and pwd=="20041997":

print ("ENTER A TASK:\nVIEW STOCK\nUPDATE STOCK\nVIEW SOLD\nLOGOUT\nQUIT\n")

c=1

elif user=="CUSTOMER" and pwd=="123":

print ("ENTER A TASK:\nVIEW STOCK\nPLACE ORDER\nQUIT\nLOGOUT\n")

c=2

else:

print("Loading databases...Please wait")

time.sleep(5)

print ("ACCESS DENIED")

math=0

break

f1=open("ship\_log1.txt","r")

f2=open("ship\_log1.txt","a")

task=raw\_input()

lists=[]

print

if task=="QUIT" or math==0:

f1.close()

f2.close()

break

elif task=="VIEW SOLD":

f4=open("ship\_log2.txt","r")

while True:

try:

z=pickle.load(f4)

except EOFError:

break

lists.append(z)

for i in lists:

if flag==0:

print("[ Batch code :Prdt type :Prdt name :Qty :Price ]")

flag=1

print i

flag=0

f4.close()

elif task=="VIEW STOCK":

view\_stk(f1,c)

elif task=="UPDATE STOCK":

update\_stk(f2)

elif task=="PLACE ORDER":

count=0

while True:

if count==0:

sp,bill,f1=order(f1,bill,sp)

print ("Total cost :",sp)

count+=1

else:

g=raw\_input("Continue order:\n\tEnter Y or N: ")

if g=='Y':

sp,bill,f1=order(f1,bill,sp)

count+=1

elif g=='N':

time.sleep(5)

print ("+"+"\*"\*25+"+")

print ("Generating bill.....Please wait\n\n\n")

time.sleep(5)

f4=open("ship\_log2.txt","a")

print ("the Bill items are:")

for i in bill:

print "\*"\*75

print i

pickle.dump(i,f4)

f4.flush()

f4.close()

print "\*"\*85

print ("TOTAL AMOUNT TO BE PAID IS RS.",sp,"ONLY")

time.sleep(2)

count=0

break

print ("\n@Thank you for shopping :)\n ")

task="LOGOUT"

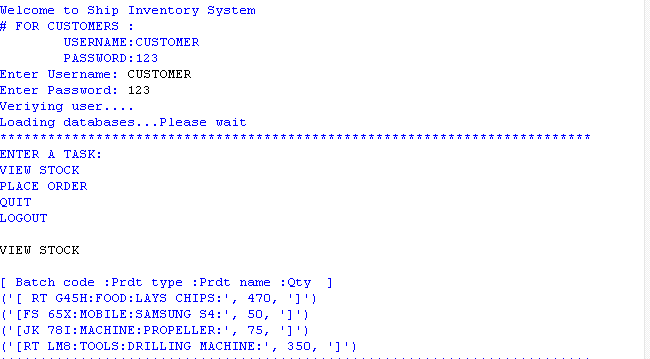
elif task=="LOGOUT":

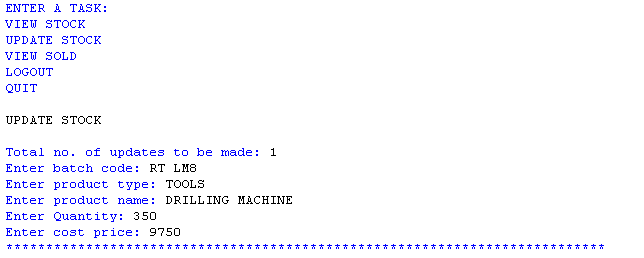
user,pwd=login()

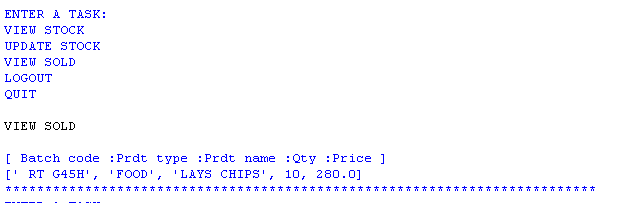
f1.close()

f2.close()

**OUTPUT**







**CONCLUSION**

The program is simple, logical and user friendly. The program facilitates the update of stocks and then the customer is able to check out the products available for marketing. The user gets real time access to order them. The program was very well executed and verified.

**REFERENCES**

Python programming

*By John Zelle.*