Medicine Stock Checking System

21CSS101J – PROGRAMMING FOR PROBLEM SOLVING

Mini Project Report

Submitted by

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December 2022

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BONAFIDE CERTIFICATE

Certified that this project report titled "**Medicine Stock Checking System"** is the bonafide work of **DIBYAJYOTI BHATTACHARJEE   RA2211026010340   and   DEVASYE SACHDEVA   RA2211026010367** who carried out the project work under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion for this or any other candidate.

Dr.R.A.Karthika   Dr.M.Pushpalatha

Supervisor   HOD

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THE PROBLEM STATEMENT

The medicine stock checking system software is an ERP software used by pharmacies or medicine dealers for wholesale/retail business. Health systems in India are grappling with the effects of existing communicable and noncommunicable means to cater to the needs of the people. Lack of adequate progress on these underlying social determinants of health has; been acknowledged as a glaring failure of public health. As we go to the doctor, he

analyzes the problem with us and tells us the reason for the problem, and prescribes us some sort of medicine. These medicines are available in medical stores. one needs a prescription to the store which the staff takes care of and uses that to see which medicines they need according to the name given to the medicine.Now, this becomes a bit tedious to locate the particular medicine. Now here comes such a system which is capable of recording that from where the medicines need to be taken out according to the name, brand, price in the racks, which are marked with the no. of them.

Here the system helps the staff to manage the medicines in the racks and also useful in reinstalling the stock in the racks and easy to find. Here the system gives the total according to the quantity of the medicines individually and from the order, they get the invoice of the medicines.

The prescription is taken care of with great care as one needs to take care that few medicines are sophisticated to make it available to customers. Hence a useful system is capable of working and managing the medicines in a store.

INTRODUCTION, OBJECTIVE AND SCOPE:

This software stores details of medicines and helps us to search medicines by their name and expiry date. It is possible to edit medicine costs and sell the medicine. The balance i.e., due amount of the stock can also be checked. If the medicine is expired, the system has the provision to dispose of it to the system specified warehouse. The program is also useful to check the details of expired medicines.

OBJECTIVES

- To maintain the medicine stock details entered by the user, sell medicine, update stock details, providing medicine amount enquiry by simple search technique.
- To dispose of medicines which are expired and provide the facility to search the disposed medicines.
- To display the amount, sold amount, balance amount of a particular medicine by graphical analysis technique.
- Globalized usage.

FUTURE SCOPE AND ENHANCEMENTS:

- The project could have provision to calculate annual turnover of the medicine unit.
- The project could incorporate the provision of GST Calculation. ● The project could have the facility to take care of the medicines which are to be refunded i.e., there is no mechanism to keep the account of the refunded medicines.

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LIBRARIES USED
- Os
- random
- date time
- tabulate
- MYSQL.connector
- Python IDLE

PROJECT CATEGORY

RDBMS (MY SQL)/ e-commerce/ Medical 6

CODING

```
import os
import random
import datetime
from tabulate import tabulate
import mysql.connector
```

```
mycur=mycon.cursor()

def Store():
    sql="Insert into stock(Batch_no,name,date_man,date_exp,quantity,sell,balance,cost_unit)values(%s,%s,%s,%s,%s,%s,%s,%s)"
    print('\nPLEASE PROVIDE THE REQUIRED INFORMATION\n')
    acc=int(input('\nENTER THE BATCH NUMBER:'))
    nm=input('\nENTER THE NAME OF THE MEDICINE WITH POWER:')
    dbs=input('\nENTER THE DATE OF MANUFACTURE(YYYY-MM-DD):')
    daco=input('\nENTER THE DATE OF EXPIRY(YYYY-MM-DD):')
    quan=int(input('\nENTER THE QUANTITY OF THE IMPORTED MEDICINE:'))
    sell=0
    balance=quan
    cost=int(input('\nENTER THE COST OF THE IMPORTED MEDICINE PER UNIT:'))
    value=(acc,nm,dbs,daco,quan,sell,balance,cost)
    try:
        mycur.execute(sql,value)
        print(nm, ' ADDED TO THE STOCK')
        mycon.commit()
    except BaseException as e:
        printIn(e)
```

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```python
def Search_by_Name():
    ph=input('\nENTER THE MEDICINE NAME TO SEARCH:')
    sql="Select Batch_no, name, date_man, date_exp, quantity, cost_unit from stock where name=%s"
    value=(ph,)
    mycur.execute(sql,value)
    rec=mycur.fetchone()
    if(rec==None):
        print(ph,'IS NOT AVAILABLE')
    else:
        print('BATCH NUMBER:\t',rec[0])
        print('MEDICINE NAME:\t',rec[1])
        print('DATE OF MANUFACTURE:\t',rec[2])
        print('DATE OF EXPIRY:\t',rec[3])
        print('QUANTITY STORED:\t',rec[4])
        print('UNIT PRICE:\t',rec[5])


def Cost_Update():
    sql="Update stock set cost_unit=%s where name=%s";
    ph=input('\nENTER THE MEDICINE NAME TO CHANGE COST:')
    addr=int(input('\nENTER THE NEW COST PER UNIT:'))
    value=(addr,ph)
    try:
        mycur.execute(sql,value)
        mycon.commit()
        print('NEW COST OF',ph,'IS Rs',addr)
    except:
        print('UNABLE TO CHANGE COST!!!!')


def Sell():
    sql="Update stock set sell=%s,balance=%s where name=%s";
    ph=input('\nENTER THE MEDICINE NAME TO SELL:')
    addr=int(input('\nENTER THE QUANTITY TO SELL:'))
    sql2='select quantity from STOCK where name=%s'
    value2=(ph,)
    mycur.execute(sql2,value2)
    rec=mycur.fetchone()
    if(addr>rec[0]):
        print('INSUFFICIENT STOCK IN HAND!!!!!!')
        return
    else:
        balance=rec[0]-addr
        value=(addr,balance,ph)
        try:
            mycur.execute(sql,value)
            mycon.commit()
            print(addr,'UNITS OF',ph,'SOLD')
            print(balance,'UNITS LEFT')
        except:
            print('UNABLE TO SELL MEDICINE!!!!')
```

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```python
def Available():
    ph=input('\nENTER THE MEDICINE NAME TO SEARCH:')
    sql="Select balance from stock where name=%s"
    value=(ph,)
    mycur.execute(sql,value)
    rec=mycur.fetchone()
    if(rec==None):
        print(ph,'IS NOT AVAILABLE')
    else:
        print(rec[0],'UNITS OF',ph,'IS AVAILABLE')
```

```python
def Dispose():
    sqlInsert="Insert into dispose(Batch_no,Name,date_exp,amount)values(%s,%s,%s,%s)"
    sqlSelect="Select Batch_no,name,date_exp,balance from stock where name=%s and date_exp<=%s"
    sqlDel="Delete from stock where name=%s"

    nm=input('\nENTER THE MEDICINE NAME TO DISPOSE:')
    t_date=datetime.date.today()
    valueSelect=(nm,t_date)
    mycur.execute(sqlSelect,valueSelect)
    rec=mycur.fetchone()
    if(rec==None):
        print(nm,'IS NOT EXPIRED YET')
    else:
        print(nm,'IS EXPIRED')
        c=int(input('\nPRESS 1 TO DISPOSE IT:'))
        if(c==1):
            b=rec[0]
            n=rec[1]
            d=rec[2]
            am=rec[3]
            valueInsert=(b,n,d,am)
            valueDel=(n,)
            try:
                mycur.execute(sqlInsert,valueInsert)
                mycon.commit()
                print(n,'SUCCESSFULLY DISPOSED')
                mycur.execute(sqlDel,valueDel)
                mycon.commit()
            except:
                print('UNABLE TO DISPOSE MEDICINE')
        else:
            print('WARNING!!!!!',nm,'MUST BE DISPOSED LATER')
            return
```

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```python
def Search_Dispose():
    ph=input('\nENTER THE DISPOSED MEDICINE NAME TO SEARCH:')
    sql="Select * from Dispose where Name=%s"
    value=(ph,)
    mycur.execute(sql,value)
    rec=mycur.fetchone()
    if(rec==None):
        print(ph,'IS NOT AVAILABLE')
    else:
        print('BATCH NUMBER:\t',rec[0])
        print('MEDICINE NAME:\t',rec[1])
        print('DATE OF EXPIRY:\t',rec[2])
        print('BALANCE AMOUNT:\t',rec[3])


def Close():
    os.system('cls')
    print('\nTHANK YOU FOR USING THE APPLICATION')
    quit()




print('------------WELCOME TO MEDICINE STOCK CHECKING SYSTEM--------------\n\n')
while(True):
    os.system('cls')
    print('\n\nPRESS 1 TO ADD A NEW MEDICINE')
    print('PRESS 2 TO SEARCH A MEDICINE BY NAME')

    print('PRESS 3 TO UPDATE MEDICINE COST')
    print('PRESS 4 TO SELL MEDICINE')
    print('PRESS 5 TO CHECK AVAILABILITY')
    print('PRESS 6 TO DISPOSE EXPIRED MEDICINE')
    print('PRESS 7 TO SEARCH EXPIRED MEDICINE BY NAME')
    print('PRESS 8 TO CLOSE THE APPLICATION')
    choice=int(input('ENTER YOUR CHOICE : '))
    if(choice==1):
        os.system('cls')
        Store()
    elif(choice==2):
        os.system('cls')
        Search_by_Name()

    elif(choice==3):
        os.system('cls')
        Cost_Update()
    elif(choice==4):
        os.system('cls')
        Sell()
    elif(choice==5):
        os.system('cls')
        Available()
    elif(choice==6):
        os.system('cls')
        Dispose()
    elif(choice==7):
        os.system('cls')
        Search_Dispose()
    elif(choice==8):
        Close()
    else:
        print("Please enter a valid choice.")
```
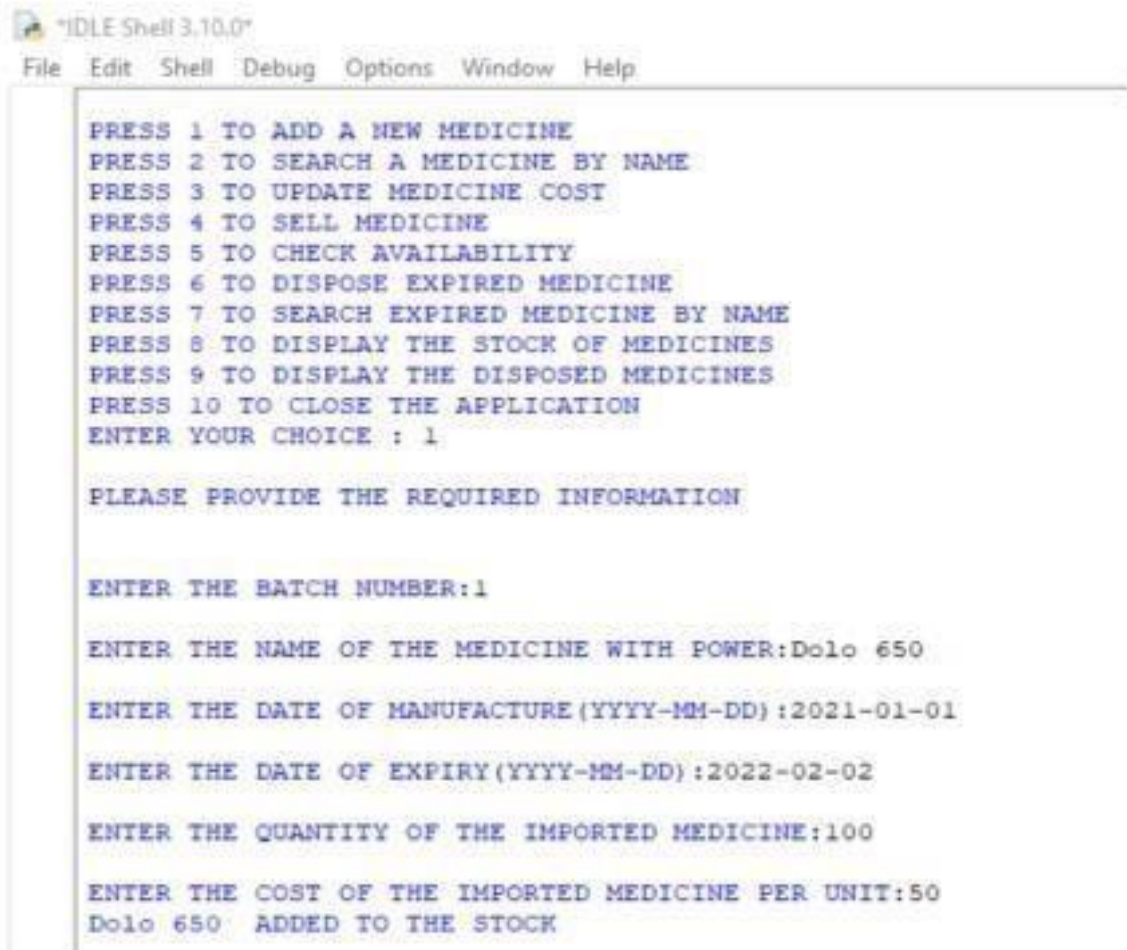
RESULT

```
-----------WELCOME TO PHARMACY INFORMATION MANAGEMENT SYSTEM-------------

PRESS 1 TO ADD A NEW MEDICINE
PRESS 2 TO SEARCH A MEDICINE BY NAME
PRESS 3 TO UPDATE MEDICINE COST
PRESS 4 TO SELL MEDICINE
PRESS 5 TO CHECK AVAILABILITY
PRESS 6 TO DISPOSE EXPIRED MEDICINE
PRESS 7 TO SEARCH EXPIRED MEDICINE BY NAME
PRESS 8 TO DISPLAY THE STOCK OF MEDICINES
PRESS 9 TO DISPLAY THE DISPOSED MEDICINES
PRESS 10 TO CLOSE THE APPLICATION
ENTER YOUR CHOICE :
```

IDLE Shell 3.10.0

File   Edit   Shell   Debug   Options   Window   Help

```
PRESS 1 TO ADD A NEW MEDICINE
PRESS 2 TO SEARCH A MEDICINE BY NAME
PRESS 3 TO UPDATE MEDICINE COST
PRESS 4 TO SELL MEDICINE
PRESS 5 TO CHECK AVAILABILITY
PRESS 6 TO DISPOSE EXPIRED MEDICINE
PRESS 7 TO SEARCH EXPIRED MEDICINE BY NAME
PRESS 8 TO DISPLAY THE STOCK OF MEDICINES
PRESS 9 TO DISPLAY THE DISPOSED MEDICINES
PRESS 10 TO CLOSE THE APPLICATION
ENTER YOUR CHOICE : 1

PLEASE PROVIDE THE REQUIRED INFORMATION


ENTER THE BATCH NUMBER:1

ENTER THE NAME OF THE MEDICINE WITH POWER:Dolo 650

ENTER THE DATE OF MANUFACTURE(YYYY-MM-DD):2021-01-01

ENTER THE DATE OF EXPIRY(YYYY-MM-DD):2022-02-02

ENTER THE QUANTITY OF THE IMPORTED MEDICINE:100

ENTER THE COST OF THE IMPORTED MEDICINE PER UNIT:50
Dolo 650  ADDED TO THE STOCK
```

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```
PRESS 1 TO ADD A NEW MEDICINE
PRESS 2 TO SEARCH A MEDICINE BY NAME
PRESS 3 TO UPDATE MEDICINE COST
PRESS 4 TO SELL MEDICINE
PRESS 5 TO CHECK AVAILABILITY
PRESS 6 TO DISPOSE EXPIRED MEDICINE
PRESS 7 TO SEARCH EXPIRED MEDICINE BY NAME
PRESS 8 TO DISPLAY THE STOCK OF MEDICINES
PRESS 9 TO DISPLAY THE DISPOSED MEDICINES
PRESS 10 TO CLOSE THE APPLICATION
ENTER YOUR CHOICE : 2

ENTER THE MEDICINE NAME TO SEARCH:Dolo 650
BATCH NUMBER:       1
MEDICINE NAME:    Dolo 650
DATE OF MANUFACTURE:        2021-01-01
DATE OF EXPIRY:  2022-02-02
QUANITTY STORED:          100
UNIT PRICE:       50


PRESS 1 TO ADD A NEW MEDICINE
PRESS 2 TO SEARCH A MEDICINE BY NAME
PRESS 3 TO UPDATE MEDICINE COST
PRESS 4 TO SELL MEDICINE
PRESS 5 TO CHECK AVAILABILITY
PRESS 6 TO DISPOSE EXPIRED MEDICINE
PRESS 7 TO SEARCH EXPIRED MEDICINE BY NAME
PRESS 8 TO DISPLAY THE STOCK OF MEDICINES
PRESS 9 TO DISPLAY THE DISPOSED MEDICINES
PRESS 10 TO CLOSE THE APPLICATION
ENTER YOUR CHOICE : 2

ENTER THE MEDICINE NAME TO SEARCH:thyronorm
thyronorm IS NOT AVAILABLE
```

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```
PRESS 1 TO ADD A NEW MEDICINE
PRESS 2 TO SEARCH A MEDICINE BY NAME
PRESS 3 TO UPDATE MEDICINE COST
PRESS 4 TO SELL MEDICINE
PRESS 5 TO CHECK AVAILABILITY
PRESS 6 TO DISPOSE EXPIRED MEDICINE
PRESS 7 TO SEARCH EXPIRED MEDICINE BY NAME
PRESS 8 TO DISPLAY THE STOCK OF MEDICINES
PRESS 9 TO DISPLAY THE DISPOSED MEDICINES
PRESS 10 TO CLOSE THE APPLICATION
ENTER YOUR CHOICE : 3

ENTER THE MEDICINE NAME TO CHANGE COST:Dolo 650

ENTER THE NEW COST PER UNIT:60
NEW COST OF Dolo 650 IS Rs 60


PRESS 1 TO ADD A NEW MEDICINE
PRESS 2 TO SEARCH A MEDICINE BY NAME
PRESS 3 TO UPDATE MEDICINE COST
PRESS 4 TO SELL MEDICINE
PRESS 5 TO CHECK AVAILABILITY
PRESS 6 TO DISPOSE EXPIRED MEDICINE
PRESS 7 TO SEARCH EXPIRED MEDICINE BY NAME
PRESS 8 TO DISPLAY THE STOCK OF MEDICINES
PRESS 9 TO DISPLAY THE DISPOSED MEDICINES
PRESS 10 TO CLOSE THE APPLICATION
ENTER YOUR CHOICE : 4

ENTER THE MEDICINE NAME TO SELL:Dolo 650

ENTER THE QUANTITY TO SELL:5
5 UNITS OF Dolo 650 SOLD
95 UNITS LEFT



PRESS 1 TO ADD A NEW MEDICINE
PRESS 2 TO SEARCH A MEDICINE BY NAME
PRESS 3 TO UPDATE MEDICINE COST
PRESS 4 TO SELL MEDICINE
PRESS 5 TO CHECK AVAILABILITY
PRESS 6 TO DISPOSE EXPIRED MEDICINE
PRESS 7 TO SEARCH EXPIRED MEDICINE BY NAME
PRESS 8 TO DISPLAY THE STOCK OF MEDICINES
PRESS 9 TO DISPLAY THE DISPOSED MEDICINES
PRESS 10 TO CLOSE THE APPLICATION
ENTER YOUR CHOICE : 5

ENTER THE MEDICINE NAME TO SEARCH:Dolo 650
95 UNITS OF Dolo 650 IS AVAILABLE
```

```
PRESS 1 TO ADD A NEW MEDICINE
PRESS 2 TO SEARCH A MEDICINE BY NAME
PRESS 3 TO UPDATE MEDICINE COST
PRESS 4 TO SELL MEDICINE
PRESS 5 TO CHECK AVAILABILITY
PRESS 6 TO DISPOSE EXPIRED MEDICINE
PRESS 7 TO SEARCH EXPIRED MEDICINE BY NAME
PRESS 8 TO DISPLAY THE STOCK OF MEDICINES
PRESS 9 TO DISPLAY THE DISPOSED MEDICINES
PRESS 10 TO CLOSE THE APPLICATION
ENTER YOUR CHOICE : 6

 MEDICINES THAT HAVE EXPIRED TODAY
+--------------+--------------------+--------------------+
|   Batch_no. | Medicine Name      | Date of Expiry     |
+==============+====================+====================+
|            1 | Dolo 650           | 2022-02-02         |
+--------------+--------------------+--------------------+
PLEASE SELECT BATCH NUMBER TO DISPOSE MEDICINE: 1
BATCH ['1'] MEDICINE SUCCESSFULLY DISPOSED


PRESS 1 TO ADD A NEW MEDICINE
PRESS 2 TO SEARCH A MEDICINE BY NAME
PRESS 3 TO UPDATE MEDICINE COST
PRESS 4 TO SELL MEDICINE
PRESS 5 TO CHECK AVAILABILITY
PRESS 6 TO DISPOSE EXPIRED MEDICINE
PRESS 7 TO SEARCH EXPIRED MEDICINE BY NAME
PRESS 8 TO DISPLAY THE STOCK OF MEDICINES
PRESS 9 TO DISPLAY THE DISPOSED MEDICINES
PRESS 10 TO CLOSE THE APPLICATION
ENTER YOUR CHOICE : 7

ENTER THE DISPOSED MEDICINE NAME TO SEARCH:Dolo 650
BATCH NUMBER:     1
MEDICINE NAME:    Dolo 650
DATE OF EXPIRY:   2022-02-02
BALANCE AMOUNT:   60
```

```
PRESS 1 TO ADD A NEW MEDICINE
PRESS 2 TO SEARCH A MEDICINE BY NAME
PRESS 3 TO UPDATE MEDICINE COST
PRESS 4 TO SELL MEDICINE
PRESS 5 TO CHECK AVAILABILITY
PRESS 6 TO DISPOSE EXPIRED MEDICINE
PRESS 7 TO SEARCH EXPIRED MEDICINE BY NAME
PRESS 8 TO DISPLAY THE STOCK OF MEDICINES
PRESS 9 TO DISPLAY THE DISPOSED MEDICINES
PRESS 10 TO CLOSE THE APPLICATION
ENTER YOUR CHOICE : 8
+-----------+---------------+-------------------+----------------+------------+--------+------------+----------------+
| Batch_no. | Medicine Name | Date of Manufacture | Date of Expiry | Quantity | Sold | Units left | Amount per unit |
+===========+===============+===================+================+============+========+============+================+
|         1 | Dolo 650      | 2021-01-01        | 2022-02-02     |      100 |    4 |         99 |             60 |
+-----------+---------------+-------------------+----------------+------------+--------+------------+----------------+
```

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```
PRESS 1 TO ADD A NEW MEDICINE
PRESS 2 TO SEARCH A MEDICINE BY NAME
PRESS 3 TO UPDATE MEDICINE COST
PRESS 4 TO SELL MEDICINE
PRESS 5 TO CHECK AVAILABILITY
PRESS 6 TO DISPOSE EXPIRED MEDICINE
PRESS 7 TO SEARCH EXPIRED MEDICINE BY NAME
PRESS 8 TO DISPLAY THE STOCK OF MEDICINES
PRESS 9 TO DISPLAY THE DISPOSED MEDICINES
PRESS 10 TO CLOSE THE APPLICATION
ENTER YOUR CHOICE : 10

THANK YOU FOR USING THE APPLICATION
```

```
PRESS 1 TO ADD A NEW MEDICINE
PRESS 2 TO SEARCH A MEDICINE BY NAME
PRESS 3 TO UPDATE MEDICINE COST
PRESS 4 TO SELL MEDICINE
PRESS 5 TO CHECK AVAILABILITY
PRESS 6 TO DISPOSE EXPIRED MEDICINE
PRESS 7 TO SEARCH EXPIRED MEDICINE BY NAME
PRESS 8 TO DISPLAY THE STOCK OF MEDICINES
PRESS 9 TO DISPLAY THE DISPOSED MEDICINES
PRESS 10 TO CLOSE THE APPLICATION
ENTER YOUR CHOICE : 9
+---------------+----------------+----------------------+-------------------+
|   Batch_no.   | Medicine Name  | Date of Manufacture  |  Amount per unit  |
+===============+================+======================+===================+
|           1   | Dolo 650       | 2022-02-02           |               60  |
+---------------+----------------+----------------------+-------------------+
```

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CONCLUSION

To maintain the medicine stock details entered by the user, sell medicine, update stock details, providing medicine amount enquiry by simple search technique.

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BONAFIDE CERTIFICATE

Certified that this project report titled "**Medicine Stock Checking System**" is the bonafide work of **DIBYAJYOTI BHATTACHARJEE RA2211026010340** and **DEVASYE SACHDEVA RA2211026010367** who carried out the project work under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion for this or any other candidate.

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