AL ALIA INTERNATIONAL INDIAN SCHOOL

MALAZ, RIYADH, SAUDI ARABIA

COMPUTER SCIENCE PROJECT

REPORT

CERTIFICATE

This is to certify that **ALAN SUBHASH & ROSHEN REJI** of class **XII A** has satisfactorily completed the project work of COMPUTER SCIENCE prescribed by the Central Board Of Secondary Education (CBSE) course for the year 2021-2022.

Teacher- in-charge

External examiner:

Signature:

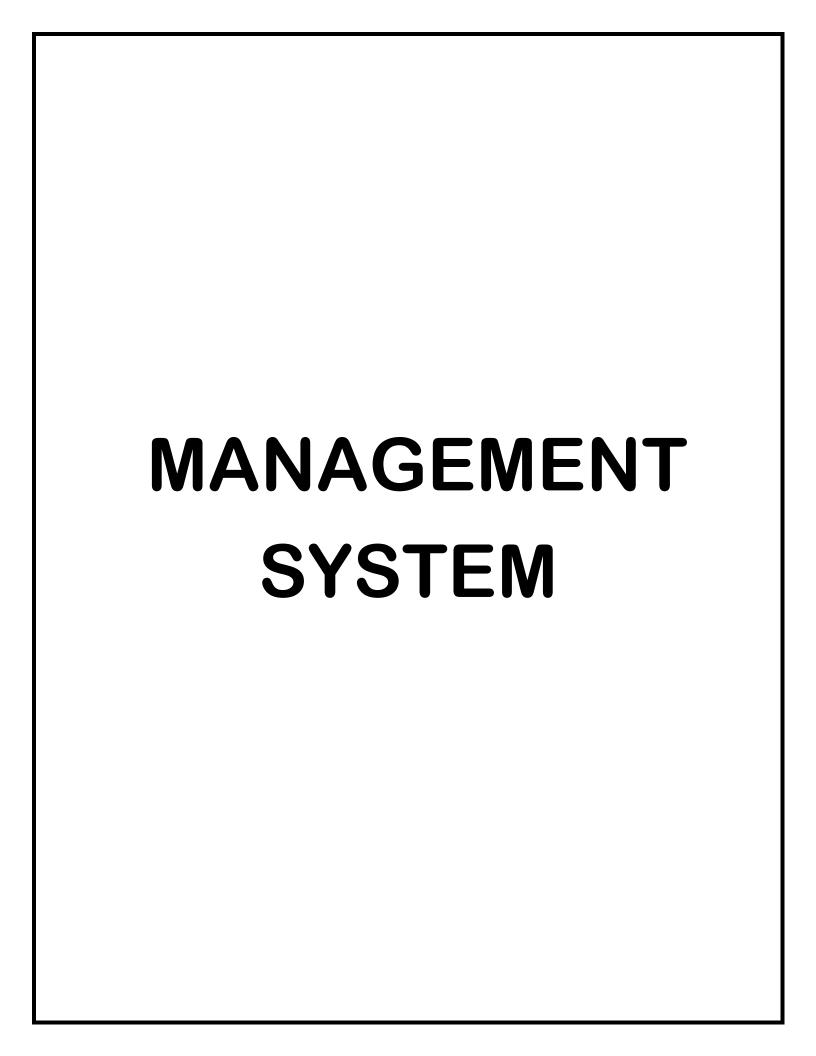**Date:**

Signature of principal

Acknowledgement

First, I thank almighty, who miraculously blessed me throughout this project period for its successful completion.

In this opportunity, I express my sincere gratitude to our honorable principal Dr. Shanu.c.Thomas for exposing me to this project.

I am indebted to my computer science teacher Mrs.Vineetha Hareesh to whom I accord my sincere gratitude and profound thankfulness, for her good guidance, insightful opinion .

With gratitude

Alan Subhash & Roshen Reji

MANAGEMENT SYSTEM

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BRIEF OVERVIEW OF PROJECT

Aim of this project is to ease the task of managing records in a cloths/garment manufacture company or in the shops . Garments management system using python and mysql provides the facilities of adding, updating, deleting and accessing both individually and as a group. The simple code program can stored the batch number of a particular cloth with the help of GCODE(garment code),every cloth have an unique code through which each of them can be accessed. Also, all the varieties of size and colour of the material can be stored along with the item as SIZE and COLOUR in the code .

As accessing the data through different ways is important, both individual and group accessing of garments are possible through the correct choices. It helps in the change or adding of variety of cloths into the database. After the stocks gets removed or over deleting the data is important, deletion can be done through a choice mentioned in the code. Updating the values in database is a mandatory process the code also has a provision for updating the garment details of size, name and price.

The project (front-end) has been developed using python version 3.8.3. The RDBMS(Relational Database Management System) used is MySQL. Thus, the entire project is based on Python-MySQL connectivity.

SYSTEM REQUIREMENTS

Operating System : Windows 7

Processor : intel core i3 or higher

RAM : 4GB or higher

Platform : Python IDLE 3.6 or above

Database : MySQL 8.0 COMMAND LINE CLIENT

Languages : Python

ADVANTAGES OF PROJECT

1. PURCHASE FEATURES

   With the help of this project we can add a unlimited entries to the database this reduces the major problem of data redundancy and the easiness lead to a great increase in profit

2. DOCUMENTATION

 Gives the proper documentation of data from the beginning and can access anytime to the database from any part of the world and can perform multiple task. It will be the most beneficial for the hirer.

3. FRONT END: PYTHON

Python becomes the user front end, every values or data entered will be on the python interface. Usually, the data inputted by the user along with the generated output are displayed but not stored ,since all the program execution takes place inside RAM which is temporary memory and as soon as we close the forms, its content gets erased.

4. BACK END:MYSQL

While working with an application, it is required to save data permanently on some secondary storage device ,which is usually the hard disk, so that the data can be retrieved for the future reference, modification, deletion etc......

SOURCE CODE OF PYTHON

```python
import mysql.connector

from tabulate import tabulate


db=input("ENTER NAME OF YOUR DATABASE:")

mydb=mysql.connector.connect(host="localhost",user="root",password='AryaAlan20')

mycursor=mydb.cursor()


sql="CREATE DATABASE IF NOT EXISTS %s"%(db)

mycursor.execute(sql)

print("DATABASE CREATED SUCCESSFULLY...")

mycursor=mydb.cursor()

mycursor.execute("USE "+db)

TableName=input("NAME OF YOUR TABLE TO BE CREATED:")

query="CREATE TABLE IF NOT EXISTS "+TableName+"(GCODE int primary key,\

GNAME varchar(20) not null,\

SIZE char(2),\

COLOUR varchar(10),PRICE int)"

print("TABLE "+TableName+" CREATED SUCCESSFULLY...")

mycursor.execute(query)
```

```python
while True:

    print("\n")

    print("-"*80)

    print("\t\t\t\tMain Menu")

    print("-"*80)

    print("\t\t\t1. ADDING GARMENT RECORD")

    print("\t\t\t2. FOR DISPLAYING RECORD OF ALL THE GARMENTS")

    print("\t\t\t3. FOR DISPALYING RECORD OF A PARTICULAR GARMENT")

    print("\t\t\t4. FOR DELETING A RECORD OF A PARTICULAR GARMENT")

    print("\t\t\t5. FOR MODIFICATION IN A RECORD")

    print("\t\t\t6. FOR EXIT")

    print("ENTER CHOICE:",end="")

    choice=int(input())

    if choice==1:

        try:

            print("ENTER GARMENT INFORMATION...")

            mcode=int(input("ENTER GCODE:"))

            mname=input("ENTER GNAME:")

            msize=input("ENTER SIZE:")

            mcolour=input("ENTER COLOUR:")

            mprice=int(input("ENTER PRICE:"))

            rec=(mcode,mname,msize,mcolour,mprice)
```

```python
        query="insert into "+TableName+" values(%s,%s,%s,%s,%s)"

        mycursor.execute(query,rec)

        mydb.commit()

        print("RECORD ADDED SUCCESSFULLY...")

    except:

        print("SOMETHING WENT WRONG")



elif choice==2:

    try:

        query="select*from "+TableName

        mycursor.execute(query)

        print((tabulate(mycursor,headers=["GCODE","GNAME","SIZE","COLOUR","PRICE"],tablefmt="psql")))

    except:

        print("SOMETING WENT WRONG")



elif choice==3:

    try:

        en=input("ENTER GCODE NUMBER OF THE RECORD TO BE DISPLAYED:")

        query="select*from "+TableName+" where GCODE="+en

        mycursor.execute(query)

        myrecord=mycursor.fetchone()

        print("\nRECORD OF GARMENT NUMBER:"+en)
```

```python
        print(myrecord)

        c=mycursor.rowcount

        if c==-1:

            print("NOTHING TO DISPLAY")

    except:

        print("SOMETHING WENT WRONG")


elif choice==4:

    try:

        en=input("ENTER GCODE NUMBER OF THE RECORD TO BE DELECTED:")

        query="delete from "+TableName+" where GCODE="+en

        mycursor.execute(query)

        mydb.commit()

        c=mycursor.rowcount

        if c>0:

            print("DELECTION DONE!!")

        else:

            print("GCODE NUMBER",en,"NOT FOUND")

    except:

        print("SOMETHING WENT WRONG")


elif choice==5:
```

```python
try:

    en=input("ENTER GCODE NUMBER OF THE RECORD TO BE MODIFIED:")

    query="select * from "+TableName+" where GCODE="+en

    mycursor.execute(query)

    myrecord=mycursor.fetchone()

    c=mycursor.rowcount

    if c==1:

        mname=myrecord[1]

        msize=myrecord[2]

        mprice=myrecord[4]

        print("GCODE   :",myrecord[0])

        print("GNAME   :",myrecord[1])

        print("SIZE    :",myrecord[2])

        print("COLOUR  :",myrecord[3])

        print("PRICE   :",myrecord[4])

        print("--------------------------")

        print("TYPE VALUE TO MODIFY BELOW OR JUST PRESS ENTER FOR NO CHANGE")

        x=input('ENTER GNAME')

        if len(x)>0:

            mname=x

        x=input("ENTER SIZE")

        if len(x)>0:
```

```python
                    msize=x

                x=input("ENTER PRICE")

                if len(x)>0:

                    mprice=x

                query='update '+TableName+' set GNAME='+"'"+mname+"'"+','+'SIZE='+"'"+msize+"'"+','+'PRICE='\

                    +str(mprice)+' where GCODE='+en

                print(query)

                mycursor.execute(query)

                mydb.commit()

                print("RECORD MODIFIED")

            else:

                print('GCODE "+en" DOES NOT EXIST')

        except:

            print("SOMETHING WENT WRONG")


elif choice==6:

    break

else:

    print("WRONG CHOICE...")
```

OUTPUT SCREEN

```
Python 3.8.3 (tags/v3.8.3:6f8c832, May 13 2020, 22:20:19) [MSC v.1925 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\Owner\AppData\Local\Programs\Python\Python38-32\project2022.py
ENTER NAME OF YOUR DATABASE:_GARMENTS
DATABASE CREATED SUCCESSFULLY...
NAME OF YOUR TABLE TO BE CREATED:CLOTHS
TABLE CLOTHS CREATED SUCCESSFULLY...


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                              Main Menu
-------------------------------------------------------------------------------
                     1. ADDING GARMENT RECORD
                     2. FOR DISPLAYING RECORD OF ALL THE GARMENTS
                     3. FOR DISPALYING RECORD OF A PARTICULAR GARMENT
                     4. FOR DELETING A RECORD OF A PARTICULAR GARMENT
                     5. FOR MODIFICATION IN A RECORD
                     6. FOR EXIT
ENTER CHOICE:1
ENTER GARMENT INFORMATION...
ENTER GCODE:201
ENTER GNAME:T-SHIRTS
ENTER SIZE:L
ENTER COLOUR:BLUE
ENTER PRICE:100
RECORD ADDED SUCCESSFULLY...


-------------------------------------------------------------------------------
                              Main Menu
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                     1. ADDING GARMENT RECORD
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                     4. FOR DELETING A RECORD OF A PARTICULAR GARMENT
                     5. FOR MODIFICATION IN A RECORD
                     6. FOR EXIT
ENTER CHOICE:1
ENTER GARMENT INFORMATION...
ENTER GCODE:202
ENTER GNAME:CHURIDAR
ENTER SIZE:XL
ENTER COLOUR:PINK
```

```
ENTER COLOUR:PINK
ENTER PRICE:200
RECORD ADDED SUCCESSFULLY...


--------------------------------------------------------------------------------
                                  Main Menu
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                          1. ADDING GARMENT RECORD
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                          3. FOR DISPALYING RECORD OF A PARTICULAR GARMENT
                          4. FOR DELETING A RECORD OF A PARTICULAR GARMENT
                          5. FOR MODIFICATION IN A RECORD
                          6. FOR EXIT
ENTER CHOICE:1
ENTER GARMENT INFORMATION...
ENTER GCODE:203
ENTER GNAME:TROUSERS
ENTER SIZE:L
ENTER COLOUR:BEIGE
ENTER PRICE:250
RECORD ADDED SUCCESSFULLY...


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                                  Main Menu
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                          1. ADDING GARMENT RECORD
                          2. FOR DISPLAYING RECORD OF ALL THE GARMENTS
                          3. FOR DISPALYING RECORD OF A PARTICULAR GARMENT
                          4. FOR DELETING A RECORD OF A PARTICULAR GARMENT
                          5. FOR MODIFICATION IN A RECORD
                          6. FOR EXIT
ENTER CHOICE:2
+---------+----------+--------+----------+---------+
|   GCODE | GNAME    | SIZE   | COLOUR   |   PRICE |
|---------+----------+--------+----------+---------|
|     201 | T-SHIRTS | L      | BLUE     |     100 |
|     202 | CHURIDAR | XL     | PINK     |     200 |
|     203 | TROUSERS | L      | BEIGE    |     250 |
+---------+----------+--------+----------+---------+
```

```
--------------------------------------------------------------------------------
                                Main Menu
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                        1. ADDING GARMENT RECORD
                        2. FOR DISPLAYING RECORD OF ALL THE GARMENTS
                        3. FOR DISPALYING RECORD OF A PARTICULAR GARMENT
                        4. FOR DELETING A RECORD OF A PARTICULAR GARMENT
                        5. FOR MODIFICATION IN A RECORD
                        6. FOR EXIT
ENTER CHOICE:3
ENTER GCODE NUMBER OF THE RECORD TO BE DISPLAYED:202

RECORD OF GARMENT NUMBER:202
(202, 'CHURIDAR', 'XL', 'PINK', 200)



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                                Main Menu
--------------------------------------------------------------------------------
                        1. ADDING GARMENT RECORD
                        2. FOR DISPLAYING RECORD OF ALL THE GARMENTS
                        3. FOR DISPALYING RECORD OF A PARTICULAR GARMENT
                        4. FOR DELETING A RECORD OF A PARTICULAR GARMENT
                        5. FOR MODIFICATION IN A RECORD
                        6. FOR EXIT
ENTER CHOICE:4
ENTER GCODE NUMBER OF THE RECORD TO BE DELECTED:202
DELECTION DONE!!



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                                Main Menu
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                        1. ADDING GARMENT RECORD
                        2. FOR DISPLAYING RECORD OF ALL THE GARMENTS
                        3. FOR DISPALYING RECORD OF A PARTICULAR GARMENT
                        4. FOR DELETING A RECORD OF A PARTICULAR GARMENT
                        5. FOR MODIFICATION IN A RECORD
                        6. FOR EXIT
ENTER CHOICE:5
ENTER GCODE NUMBER OF THE RECORD TO BE MODIFIED:201
GCODE   : 201
GNAME   : T-SHIRTS
```

```
ENTER GCODE NUMBER OF THE RECORD TO BE MODIFIED:201
GCODE   : 201
GNAME   : T-SHIRTS
SIZE    : L
COLOUR  : BLUE
PRICE   : 100
-------------------------
TYPE VALUE TO MODIFY BELOW OR JUST PRESS ENTER FOR NO CHANGE
ENTER GNAMEHOODIE
ENTER SIZEL
ENTER PRICE75
update CLOTHS set GNAME='HOODIE',SIZE='L',PRICE=75 where GCODE=201
RECORD MODIFIED


-----------------------------------------------------------------------
                            Main Menu
-----------------------------------------------------------------------
                    1. ADDING GARMENT RECORD
                    2. FOR DISPLAYING RECORD OF ALL THE GARMENTS
                    3. FOR DISPALYING RECORD OF A PARTICULAR GARMENT
                    4. FOR DELETING A RECORD OF A PARTICULAR GARMENT
                    5. FOR MODIFICATION IN A RECORD
                    6. FOR EXIT
ENTER CHOICE:2
+---------+----------+--------+----------+---------+
|   GCODE | GNAME    | SIZE   | COLOUR   |   PRICE |
|---------+----------+--------+----------+---------|
|     201 | HOODIE   | L      | BLUE     |      75 |
|     203 | TROUSERS | L      | BEIGE    |     250 |
+---------+----------+--------+----------+---------+


-----------------------------------------------------------------------
                            Main Menu
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                    1. ADDING GARMENT RECORD
                    2. FOR DISPLAYING RECORD OF ALL THE GARMENTS
                    3. FOR DISPALYING RECORD OF A PARTICULAR GARMENT
                    4. FOR DELETING A RECORD OF A PARTICULAR GARMENT
                    5. FOR MODIFICATION IN A RECORD
                    6. FOR EXIT
ENTER CHOICE:6
>>> |
```

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