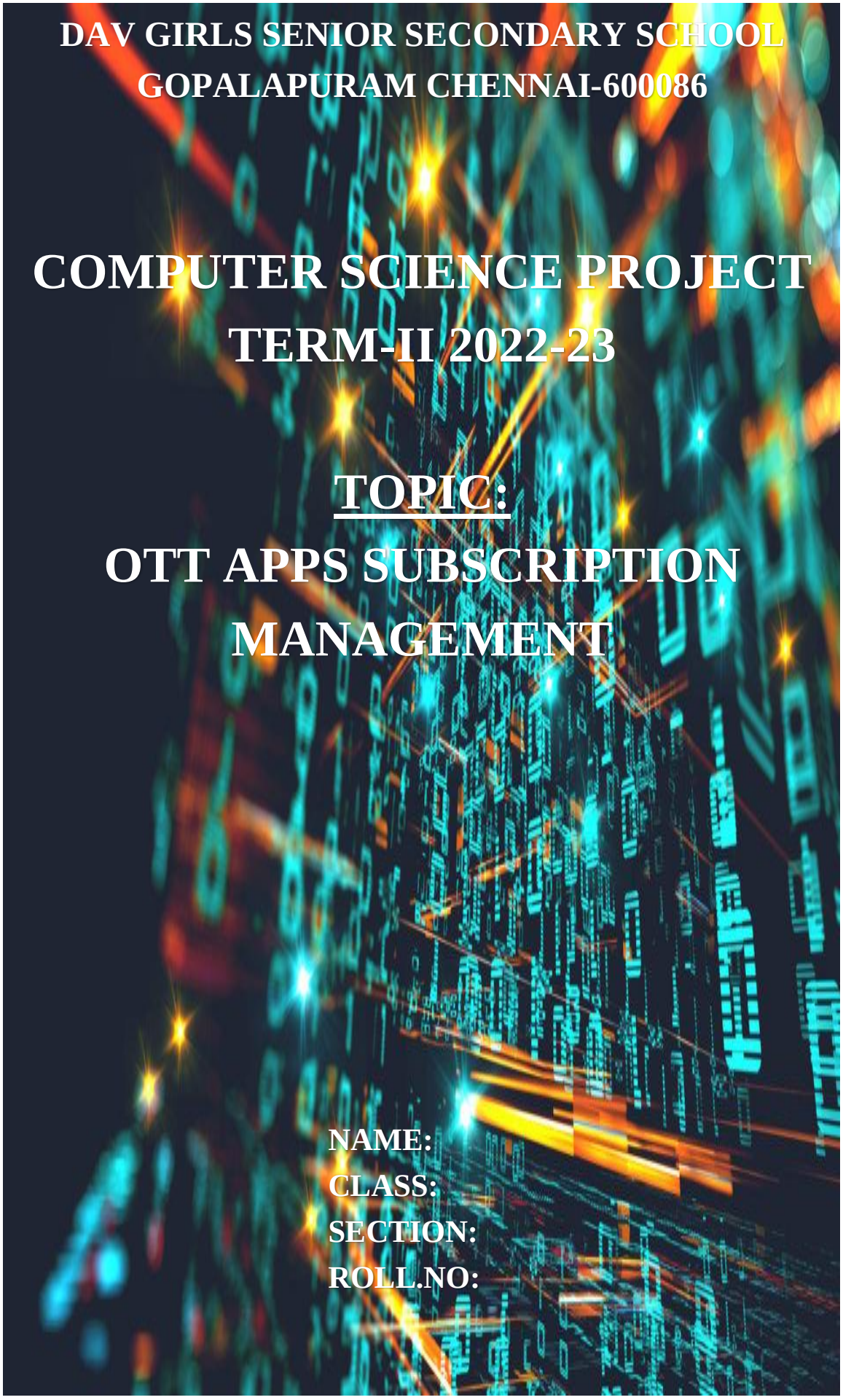

DAV GIRLS SENIOR SECONDARY SCHOOL
GOPALAPURAM CHENNAI-600086

# COMPUTER SCIENCE PROJECT
# TERM-II 2022-23

## TOPIC:

# OTT APPS SUBSCRIPTION MANAGEMENT


NAME:
CLASS:
SECTION:
ROLL.NO:

# BONAFIDE CERTIFICATE

Certified to be the Bonafide Project work in COMPUTER SCIENCE done by_____, Registration Number _____ of Class XII Section A of D.A.V GIRLS SR.SEC. SCHOOL, GOPALAPURAM, CHENNAI – 600086 during the year 2022-2023.

Signature of Principal Signature of Subject Teacher

School Seal

Submitted for the Practical Examination held on _____ at D.A.V.GIRLS SR. SEC. SCHOOL, GOPALAPURAM, CHENNAI – 86

Internal Examiner External Examiner

# AIM OF THE PROJECT

Subscription management is the art of handling customer's subscription life cycle from start to finish. It starts when a customer signs up/signs in for their favorite ott app subscription and ends at the point where they can renew or cancel the subscription. It also involves making sure that customers are happy with your service.

Subscription management, on the other hand, deals with your existing customers and the ongoing process of ensuring that they stay with your service.

In today's world, everyone are using ott apps. To make this an easy task for the users we are having subscription management.

If the user is already a member of their ott platform they can:

1. login
2. iew their previous plan
3. change to new plan
4. iew the available plans of their ott platform
5. renew or delete their account

To organize the subscription management we have admin mode. It ensures that it keeps record of the ott app subscribers.

In the admin mode, the admin can:

1. iew all the subscribers
2. change the validity of the new subscriber
3. If validity expires, asks the user if they want to renew/delete their account
4. Add new subscriber
5. Delete the subscriber

# SQL TABLES USED

```
mysql> select * from subscribers;
+--------------+------------+-----------------------+-------------+---------------+------------+
| USERNAME     | USER_ID    | EMAIL_ID              | PLATFORM    | PLAN          | VALIDITY   |
+--------------+------------+-----------------------+-------------+---------------+------------+
| andrew       | peter@18   | andrew18@gmail.com    | netflix     | mobile plan   | 2023-02-28 |
| tom          | tom07      | tomholland@gmail.com  | hotstar     |               | 2023-04-01 |
| tobey        | tobeykhan11| dvtobey@gmail.com     | amazonprime | quarterly plan| 2023-01-15 |
| loki         | lokiverse  | loki12verse@gmail.com | amazonprime | yearly plan   | 2023-02-28 |
| groot        | grootsm    | galaxygroot@gmail.com | zee         | super         | 2023-12-29 |
| shang chi    | shang      | tenrings@gmail.com    | hotstar     | premium       | 2022-12-26 |
| dhars        | ruby8      | rubydhars@gmail.com   | netflix     | premium       | 2023-01-29 |
| wanda vision | vision01   | wandavision12@gmail.com| netflix    | standard plan | 2023-02-02 |
| theja        | theja09    | thejame@gmail.com     | netflix     | standard plan | 2023-01-29 |
| edrik        | venom04    | edvenom@gmail.com     | hotstar     | mobile        | 2023-12-29 |
| bobi         | kbohi11    | kahanbobi@gmail.com   | zee         | year plan     | 2022-12-01 |
| tony stark   | ironman2   | starkironman@gmail.com| hotstar     | premium       | 2023-05-23 |
| bruce        | hulkb      | hulkdrbruce@gmail.com | amazonprime | monthly plan  | 2022-02-08 |
| clark        | henrey07   | clarkhenry@gmail.com  | netflix     | standard plan | 2022-09-20 |
| chris evans  | chrischap  | captainameria@gmail.com| netflix    | mobile plan   | 2023-02-01 |
| steve rogers | steve14    | steve14@gmail.com     | zee         | month plan    | 2023-04-01 |
| jordan       | 88jordan@  | jordar8@gmail.com     | hotstar     | super         | 2024-01-01 |
| angela       | angele77   | angelabasset@gmail.com| amazonprime | monthly plan  | 2023-02-01 |
| gabriel      | gabriel33  | gab33@gmail.com       | amazonprime | quarterly plan| 2023-07-01 |
| emily        | emily44    | emily4407@gmail.com   | zee         | year plan     | 2024-01-01 |
+--------------+------------+-----------------------+-------------+---------------+------------+
20 rows in set (0.00 sec)
```

```
mysql> select * from netflix;
+--------------+--------------+-------------+-------------------------+
| PLANS        | PRICEMONTHLY | NOOFSCREENS | typeofdevice            |
+--------------+--------------+-------------+-------------------------+
| Mobile plan  |          149 |           1 | MOBILE,TABLETS          |
| Basic plan   |          199 |           1 | MOBILE,TABLETS,LAPTOP,TV |
| Standard plan|          499 |           2 | MOBILE,TABLETS,LAPTOP,TV |
| Premium      |          649 |           4 | MOBILE,TABLETS,LAPTOP,TV |
+--------------+--------------+-------------+-------------------------+
4 rows in set (0.00 sec)
```

```
| DISNEYHOTSTAR_PLANS | PRICE       | NUMBEROFDEVICES | RESOLTIONSUPPORTED |
+---------------------+-------------+-----------------+--------------------+
| Mobile              | 149/3 months|               1 | 4k                 |
| Super               | 899/year    |               2 | hd                 |
| Premium             | 1499/year   |               4 | hd                 |
+---------------------+-------------+-----------------+--------------------+
3 rows in set (0.06 sec)

mysql> select * from zee;
+------------+-------+----------+---------+
| PLAN       | PRICE | DURATION | Screens |
+------------+-------+----------+---------+
| Year plan  |   499 | 1 year   |       3 |
| Month plan |   299 | 3 month  |       2 |
+------------+-------+----------+---------+
2 rows in set (0.00 sec)
```

```
mysql> select * from amazonprime;
+----------------+-------------------+----------+
| monthlyplan    | membershipprice   | validity |
+----------------+-------------------+----------+
| monthly plan   |               179 | one month|
| quarterly plan |               459 | 3 month  |
| yearly plan    |              1499 | 1 year   |
+----------------+-------------------+----------+
3 rows in set (0.12 sec)
```

## USER DEFINED FUNCTIONS USED

- def CREATETABLE_AMAZONPRIME():
  This udf function is used to create table amazon prime .
  Plan , Membership price, validity inserted into amazon prime table
- 2. def CREATETABLE_NETFLIX():
  This udf function is used to create table netflix
  Plan, pricemonthly, No of screens ,Type of device inserted into Netflix table
- 3. def CREATETABLE_SUBSCRIBERS():
  This udf function is used to create table subscribers
  Username, user id, ott platform, plan, validity inserted into subscriber table
- 4. def CREATETABLE_HOTSTAR():
  This udf function is used to create table hotstar
  Plan, price, validity, number of devices, resolution supported inserted into hotstar table
- 5. def CREATE_ZEE_TABLE():
  This udf function is used to create zee table
  plan, price, duration, screens inserted into Zee table
- def view_previousplan(id):
  this udf function is used to view the previous plan of the subscriber using the user id
- def change_userplan(id):
  This udf function asks for the plan to be changed from the user and updates the plan of the subscriber in table subscribers using user id
  Shows the table after updation
- def delete_user(id):
  This udf function is used to delete the subscriber using the user id
- def netflix_plans():
  this udf function is used to show the plans in the Netflix table
- def amazonprime_plans():
  this udf function is used to show the plans in the amazonprime table
- def validity_change(id):
  This udf function updates the validity of the subscriber in the subscribers table according to the chosen plan with the user id
- def renew_acc(id):

this udf function us used to renew or delete the account when the validity of the plan is over
if the user wants to renew their account with the same plan, the validity of the subscriber in the subscriber table is updated accordingly

- def netflix_user():
  This udf function is used to do the following:
  - to login:
    asks the user to enter user id, name, user id
    if the user id is in table subscribers login is successful
    it allows the user to view the previous plan details, the Netflix plans, to change the user plan, to delete the user plan or renew their account
    if the user id doesn't match something went wrong
  - If new to Netflix-sign in
    To create a new Netflix account the user id, user name, email id, password and the plan is inputed and inserted into the table subscribers
- def amazonprime_user():
  This udf function is used to do the following:
  - to login:
    asks the user to enter user id, name, user id
    if the user id is in table subscribers login is successful
    it allows the user to view the previous plan details, the Amazonprime plans, to change the user plan, to delete the user plan or renew their account
    if the user id doesn't match something went wrong
  - If new to Amazonprime-sign in
    To create a new Amazonprime account the user id, user name, email id, password and the plan is inputed and inserted into the table subscribers
- def hotstar_plans():
  this udf function is used to show the plans in the hotstar table
- def hotstar_user():
  This udf function is used to do the following:
  - to login:
    asks the user to enter user id, name, user id
    if the user id is in table subscribers login is successful

it allows the user to view the previous plan details, the hotstar plans, to change the user plan, to delete the user plan or renew their account
if the user id doesn't match something went wrong

- If new to hotstar-sign in
  To create a new hotstar account the user id, user name, email id, password and the plan is inputed and inserted into the table subscribers

- def zee_plans():
  this udf function is used to show the plans in the zee table
- def zee_user():
  This udf function is used to do the following:
  - to login:
    asks the user to enter user id, name, user id
    if the user id is in table subscribers login is successful
    it allows the user to view the previous plan details, the zee plans, to change the user plan, to delete the user plan or renew their account
    if the user id doesn't match something went wrong
  - If new to zee-sign in
    To create a new zee account the user id, user name, email id, password and the plan is inputed and inserted into the table subscribers

- def view_allsubscriber():
  This udf function is used to do the following:
  1. View all ott apps subscriber
  2. View Netflix subscriber
  3. View amazon prime subscriber
  4. View hotstar subscriber
  5. View zee subscriber
- def delete_expiredrecord():
  This udf function is used to allow the user to renew their account plan or delete their account if the validity of the subscriber plan is less than the current date
- def new_subscribervalidity():
  This udf function is used to update the validity of the new subscriber according to their chosen plan

- def add_subscriber():
  This udf function asks the subscriber for name, user id, email id, ott platform, validity and insert into the table subscribers
- def delete_subscriber():
  This udf function asks for the user id from the subscriber and deletes their record from the table subscribers
- def admin():
  This udf function is used to
    1. view all subscribers
    2. update the validity for the new subscriber
    3. delete the records whose validity date expired
    4. add new subscriber
    5. delete a subscriber
- def user():
  This udf function is used to call all the user udf functions using a menu driven code

## PROGRAM LISTING

```
import mysql.connector as m
db=m.connect(host='localhost',user='root',passwd='dhars',database='menagerie')
print(db.is_connected())
c=db.cursor()
def CREATETABLE_AMAZONPRIME():
    s='create table amazonprime(PLANS varchar(30),MEMBERSHIPPRICE integer,VALIDITY varchar(30));'
    c.execute(s)
    for k in range(3):
        p=input("Enter the plans:")
        mp=int(input("Enter the price of that plan:"))
        v=input("Enter validity:")
        s='insert into amazonprime values(%s,%s,%s);'
        c.execute(s,(p,mp,v))
        db.commit()

def CREATETABLE_NETFLIX():
    s='create table netflix(PLANS varchar(30),PRICEMONTHLY integer,NOOFSCREENS integer,typeofdevice varchar(80));'
    c.execute(s)
    for k in range(4):
        p=input('Enter type of plan:')
        pr=int(input("Enter price of that plan"))
        n=int(input("Enter no. of screens:"))
        t=input("Enter type of device:")
```

```
        s='insert into netflix values(%s,%s,%s,%s);'
        c.execute(s,(p,pr,n,t))
        db.commit()
def CREATETABLE_SUBSCRIBERS():
    s='create table subscribers(USERNAME varchar(15),USER_ID
varchar(40),EMAIL_ID varchar(30), PLATFORM varchar(20),PLAN
varchar(30),VALIDITY date);'
    c.execute(s)
    for k in range(3):
        n=input("Enter the subscriber name:")
        id=input("Enter user id:")
        em=input("Enter the subscriber email id:")
        ott=input("Enter subcriber of which ott?")
        plans=input("Enter the subscriber plans:")
        validity=input("Enter validity:")
        sq='insert into subscribers values(%s,%s,%s,%s,%s,%s);'
        c.execute(sq,(n,id,em,ott,plans,validity,))
        db.commit()

def CREATETABLE_HOTSTAR():
    s2='create table hotstar(DISNEYHOTSTAR_PLANS varchar(40),PRICE
varchar(20),NUMBEROFDEVICES INT,RESOLTIONSUPPORTED
VARCHAR(8));'
    c.execute(s2)
    for k in range(3):
        p=input("Enter the plan:")
        pr=input("Enter the price/period:")
        n=int(input("Enter number no of devices:"))
        r=input("Enter resolution supported:")
```

```
        c.execute('insert into hotstar values(%s,%s,%s,%s)',(p,pr,n,r))
        db.commit()


def CREATE_ZEE_TABLE():
    s3='create table zee(PLAN varchar(30),PRICE int,DURATION
varchar(20),Screens int);'
    c.execute(s3)
    for k in range(2):
        p=input("Enter the plan:")
        pr=int(input("Enter the price:"))
        d=input("Enter the duration:")
        s=int(input("Enter the screen:"))
        c.execute('insert into zee values(%s,%s,%s,%s);',(p,pr,d,s))
        db.commit()
def view_previousplan(id):
    c.execute('select plan from subscribers where user_id=%s',(id,))
    k=c.fetchall()
    for j in k:
        print("Your previous plan is:",j)
def change_userplan(id):
    plan=input("Enter which plan you want to change:")
    c.execute('update subscribers set plan=%s where user_id=%s;',(plan,id))
    db.commit()
    print("Successfully updated\nAfter updation")
    c.execute('select * from subscribers where user_id=%s',(id,))
    k=c.fetchall()
    for j in k:
        print(j)
```

```
    validity_change(id)
def delete_user(id):
    c.execute('delete from subscribers where user_id=%s',(id,))
    print("Deleted successfully!")
    db.commit()
def  netflix_plans():
    c.execute("select * from netflix;")
    k=c.fetchall()
    for j in k:
        print(j)
def  amazonprime_plans():
    c.execute("select * from amazonprime;")
    k=c.fetchall()
    for j in k:
        print(j)
def validity_change(id):
    x='select * from subscribers where user_id=%s'
    c.execute(x,(id,))
    for k in c.fetchall():
        if k[3]=='netflix':
            o='netflix'
            c.execute('update subscribers set validity=date_add(validity,interval 1
month) where user_id=%s;',(id,))
            db.commit()
        elif  k[3].lower()=='amazonprime':
            if k[4]=='monthly plan':
```

```
            c.execute("update subscribers set validity = date_add(validity,interval
1 month) where validity is null and plan='monthly plan' and
platform='amazonprime';")

            db.commit()

        elif k[4]=='yearly plan':

            c.execute("update subscribers set validity = date_add(validity,interval
1 year) where validity is null and plan=' yearly plan' and
platform='amazonprime';")

            db.commit()

        else:

            c.execute("update subscribers set validity = date_add(validity,interval
6 month) where validity is null and plan='quarterly plan' and
platform='amazonprime';")

            db.commit()

        elif k[3].lower()=='hotstar':

            if k[4]=='mobile':

                c.execute("update subscribers set validity =
date_add(validity,interval 1 month) where validity is null and plan='mobile' and
platform='hotstar';")

            db.commit()

        else:

            c.execute("update subscribers set validity = date_add(validity,interval
1 year) where validity is null and platform='hotstar';")

            db.commit()

        elif k[3]=='zee':

            if k[4]=='month plan':

                c.execute("update subscribers set validity =
date_add(validity,interval 3 month) where validity is null and plan='month plan'
and platform='zee';")

            db.commit()

        else:
```

```
            c.execute("update subscribers set validity = date_add(validity,interval
1 year) where validity is null and plan='year plan' and platform='zee';")
            db.commit()


def renew_acc(id):
   print("\t\tYOUR ACCOUNT VALIDITY IS OVER/n\tDO YOU WANT TO
RESTART YOUR ACCOUNT")
   x=input("Enter yes/no")
   if x.lower()=='yes':
      view_previousplan(id)
      print("DO YOU WANT TO CONTINUE THE SAME PLAN")
      z=input("Enter y/n for continuation:")
      if z.lower()=='n':
         change_userplan(id)
      else:
         s='update subscribers set validity=date_add(validity,1 month)'
         print("\tYour account successfully activated\nEnjoy your plan!!")
         validity_change(id)
   elif x.lower()=='no':
      s1='delete from subscribers  where validity< (select curdate());'
      c.execute(s1)
      db.commit()
      print("Your acccount is deleted")
def netflix_user():
   print("\t\tWelcome to Netlix platform!!!")
   print("\tMENU\n1.To Login\n2.New to Netlix? Sign in\n3.Exit")
   while True:
      ch=int(input("Enter the choice:NETFLIX"))
```

```
if ch==1:
    print('')
    print("To login please enter your user id password!!")
    user_id=input("Enter your user id:")
    name=input("Enter your name:")
    pd=input("Enter your password:")
    s='select * from subscribers'
    c.execute(s)
    k=c.fetchall()
    count=c.rowcount
    for j in k:
        if user_id in j:
            print("SUCCESSFULLY LOGIN!!!!")
            print("WELCOME TO NETFLIX")
            print("  ")
            print("\t\tMENU,\n1.See your previous plan details\n2.View netflix
plans,\n3.Change your plan\n4.Delete your account\n5.Renew you
account\n.6.Exit")
            while True:
                ch=int(input("Enter your choice:"))
                if ch==1:
                    view_previousplan(user_id)
                elif ch==2:
                    netflix_plans()
                elif ch==3:
                    change_userplan(user_id)
                elif ch==4:
                    delete_netflixuser(user_id)
```

```
                elif ch==5:
                    renew_acc(user_id)
                elif ch==6:
                    print("EXITED FROM NETFLIX")
                    break
            else:
                print("Something went wrong")
        elif ch==2:
            print("Lets get started!1\nTo create your netflix account please enter your user id and password!")
            print(" ","\nStep 1/2")
            o="netflix"
            user_id=input("Enter your user id:")
            name=input("Enter your name:")
            em=input("Enter your email id:")
            pd=input("Enter your password:")
            print("Step 2/2\nCHOOSE YOUR PLANS")
            netflix_plans()
            p=input("Which plan do you want to choose:")
            c.execute("insert into subscribers(username,user_id,email_id,platform,plan) values(%s,%s,%s,%s,%s)",(name,user_id,em,o,p))
            db.commit()
            print("ACCOUNT CREATED SUCCESSFULLY")

        elif ch==3:
            print("Exited from netflix")
            break
```

```
def amazonprime_user():
    print("\t\tWelcome to Amazon Prime platform!!!")
    print("\tMENU\n1.To Login\n2.New to Amazon prime? Sign in\n3.Exit")
    while True:
        ch=int(input("Enter the choice AMAZON PRIME:"))
        if ch==1:
            print('')
            print("To login please enter your user id password!!")
            user_id=input("Enter your user id:")
            name=input("Enter your name:")
            pd=input("Enter your password:")
            s='select * from subscribers'
            c.execute(s)
            k=c.fetchall()
            count=c.rowcount
            for j in k:
                if user_id in j:
                    print("SUCCESSFULLY LOGIN!!!!")
                    print("WELCOME TO AMAZON PRIME!!!")
                    print("\t\tMENU,\n1.See your previous plan details\n2.View
amazon prime plans,\n3.Change your plan\n4.Delete your account\n5.Renew
your account\n6.Exit")
                    while True:
                        ch=int(input("Enter your choice:"))
                        if ch==1:
                            view_previousplan(user_id)
                        elif ch==2:
                            amazonprime_plans()
```

```
                elif ch==3:
                    change_userplan(user_id)
                elif ch==4:
                    delete_user(user_id)
                elif ch==5:
                    renew_acc(user_id)
                elif ch==6:
                    print("EXITED FROM AMAZON PRIME")
                    break
        elif ch==2:
            print("Lets get started!1\nTo create your amazon prime account please enter your user id and password!")
            print(" ","\nStep 1/2")
            o="amazonprime"
            user_id=input("Enter your user id:")
            name=input("Enter your name:")
            em=input("Enter your email id:")
            pd=input("Enter your password:")
            print("Step 2/2\nCHOOSE YOUR PLANS")
            amazonprime_plans()
            p=input("Which plan do you want to choose:")
            c.execute("insert into subscribers(username,user_id,email_id,platform,plan) values(%s,%s,%s,%s,%s)",(name,user_id,em,o,p))
            db.commit()
            print("ACCOUNT CREATED SUCCESSFULLY")
        elif ch==3:
            print("EXITING FROM AMAZONPRIME")
```

```
            break
        else:
            print("Invalid choice")


def hotstar_plans():
    c.execute('select * from hotstar;')
    for k in c.fetchall():
        print(k)
def hotstar_user():
    print("\t\tWelcome to Hotstar platform!!!")
    print("\tMENU\n1.To Login\n2.New to Hotstar? Sign in\n3.Exit")
    while True:
        ch=int(input("Enter the choice HOTSTAR:"))
        if ch==1:
            print('')
            print("To login please enter your user id password!!")
            user_id=input("Enter your user id:")
            name=input("Enter your name:")
            pd=input("Enter your password:")
            s='select * from subscribers'
            c.execute(s)
            k=c.fetchall()
            count=c.rowcount
            for j in k:
                if user_id in j:
                    print("SUCCESSFULLY LOGIN!!!!")
                    print("WELCOME TO HOTSTAR!!!")
```

```
            print("\t\tMENU,\n1.See your previous plan details\n2.View hotstar plans,\n3.Change your plan\n4.Delete your account\n5.Renew your account\n6.Exit")
            while True:
                ch=int(input("Enter your choice-LOGIN:"))
                if ch==1:
                    view_previousplan(user_id)
                elif ch==2:
                    hotstar_plans()
                elif ch==3:
                    change_userplan(user_id)
                elif ch==4:
                    modify_subdetails(user_id)
                elif ch==4:
                    delete_user(user_id)
                elif ch==5:
                    renew_acc(user_id)
                elif ch==6:
                    print("EXITED FROM HOTSTAR")
                    break
        elif ch==2:
            print("Lets get started!1\nTo create your hotstar account please enter your user id and password!")
            print(" ","\nStep 1/2")
            o="hotstar"
            user_id=input("Enter your user id:")
            name=input("Enter your name:")
            em=input("Enter your email id:")
```

```
            pd=input("Enter your password:")
            print("Step 2/2\nCHOOSE YOUR PLANS")
            hotstar_plans()
            p=input("Which plan do you want to choose:")
            c.execute("insert into
subscribers(username,user_id,email_id,platform,plan)
values(%s,%s,%s,%s,%s)",(name,user_id,em,o,p))
            db.commit()
            print("ACCOUNT CREATED SUCCESSFULLY")
        elif ch==3:
            print("EXITING FROM HOTSTAR")
            break
        else:
            print("Invalid choice")
def zee_plans():
    c.execute('select * from zee;')
    for k in c.fetchall():
        print(k)
def zee_user():
    print("\t\tWelcome to Zee platform!!!")
    print("\tMENU\n1.To Login\n2.New to Zee? Sign in\n3.Exit")
    while True:
        ch=int(input("Enter the choice ZEE:"))
        if ch==1:
            print('')
            print("To login please enter your user id password!!")
            user_id=input("Enter your user id:")
            name=input("Enter your name:")
```

```
        pd=input("Enter your password:")
        s='select * from subscribers'
        c.execute(s)
        k=c.fetchall()
        count=c.rowcount
        for j in k:
            if user_id in j:
                print("SUCCESSFULLY LOGIN!!!!")
                print("WELCOME TO ZEE!!!")
                print("\t\tMENU,\n1.See your previous plan details\n2.View zee
plans,\n3.Change your plan\n4.Delete your account\n5.Renew your
account\n6.Exit")
                while True:
                    ch=int(input("Enter your choice:"))
                    if ch==1:
                        view_previousplan(user_id)
                    elif ch==2:
                        zee_plans()
                    elif ch==3:
                        change_userplan(user_id)

                    elif ch==4:
                        delete_user(user_id)
                    elif ch==5:
                        renew_acc(id)
                    elif ch==6:
                        print("EXITING FROM ZEE ")
                        break
```

```
                else:
                    print("Invalid choice")


        elif ch==2:
            print("Lets get started!1\nTo create your hotstar account please enter your user id and password!")
            print(" ","\nStep 1/2")
            o="zee"
            user_id=input("Enter your user id:")
            name=input("Enter your name:")
            em=input("Enter your email id:")
            pd=input("Enter your password:")
            print("Step 2/2\nCHOOSE YOUR PLANS")
            zee_plans()
            p=input("Which plan do you want to choose:")
            c.execute("insert into subscribers(username,user_id,email_id,platform,plan) values(%s,%s,%s,%s,%s)",(name,user_id,em,o,p))
            db.commit()
            print("ACCOUNT CREATED SUCCESSFULLY")
        elif ch==3:
            print("EXITING FROM ZEE")
            break
        else:
            print("Invalid choice")


def view_allsubscriber():
    print("\1.CLICK 1 TO VIEW ALL OTT APPS SUBSCRIBER\n2.VIEW NETFLIX SUBSCRIBER\n3.VIEW AMAZON PRIME
```

```
SUBSCRIBER\n4.VIEW HOTSTAR SUBSCRIBER\n5.VIEW ZEE
SUBSCRIBER\n6.EXIT")
    while True:
        ch=int(input("Enter the choice (VIEW SUBS)"))
        if ch==1:
            c.execute('select * from subscribers')
            k=c.fetchall()
            for j in k:
                print(j)
        elif ch==2:
            o="netflix"
            c.execute('select * from subscribers where platform=%s',(o,))
            k=c.fetchall()
            for j in k:
                print(j)
        elif ch==3:
            o="amazonprime"
            c.execute('select * from subscribers where platform=%s',(o,))
            k=c.fetchall()
            for j in k:
                print(j)
        elif ch==4:
            o="hotstar"
            c.execute('select * from subscribers where platform=%s',(o,))
            k=c.fetchall()
            for j in k:
                print(j)
        elif ch==5:
```

```
            o="zee"
            c.execute('select * from subscribers where platform=%s',(o,))
            k=c.fetchall()
            for j in k:
                print(j)
        elif ch==6:
            break
        else:
            print("Invalid choice")
def expired_subscriber():
    s=' select * from subscribers where validity< (select curdate());'
    c.execute(s)
    for k in c.fetchall():
        print(k)
        print("SWITCHED TO USER MODE\n\t PLEASE CLICK your
respective platform choice and ch 5","your platform is:",k[3])
        user()
    s1='delete from subscribers  where validity< (select curdate());'
    c.execute(s1)
    db.commit()
    print("This record is deleted")
def new_subscribervalidity():
    s= 'select validity, plan,platform from subscribers;'
    c.execute(s)
    for k in c.fetchall():
        if k[2].lower()=='netflix':
            s1= "update subscribers set validity = date_add(curdate(),interval 1
month) where validity is null and platform='netflix';"
```

```
            c.execute(s1)
            db.commit()
        elif  k[2].lower()=='amazonprime':
            if k[1]=='monthly plan':
                c.execute("update subscribers set validity =
date_add(curdate(),interval 1 month) where validity is null and plan='monthly
plan' and platform='amazonprime';")
                db.commit()
            elif k[1]=='yearly plan':
                c.execute("update subscribers set validity =
date_add(curdate(),interval 1 year) where validity is null and plan=' yearly plan'
and platform='amazonprime';")
                db.commit()
            else:
                c.execute("update subscribers set validity =
date_add(curdate(),interval 6 month) where validity is null and plan='quarterly
plan' and platform='amazonprime';")
                db.commit()
        elif k[2].lower()=='hotstar':
            if k[1]=='mobile':
                c.execute("update subscribers set validity =
date_add(curdate(),interval 1 month) where validity is null and plan='mobile'
and platform='hotstar';")
                db.commit()
            else:
                c.execute("update subscribers set validity =
date_add(curdate(),interval 1 year) where validity is null and
platform='hotstar';")
                db.commit()
        elif k[2]=='zee':
            if k[1]=='month plan':
```

```
            c.execute("update subscribers set validity =
date_add(curdate(),interval 3 month) where validity is null and plan='month
plan' and platform='zee';")
            db.commit()
        else:
            c.execute("update subscribers set validity
=date_add(curdate(),interval 1 year) where validity is null and plan='year plan'
and platform='zee';")
            db.commit()
    print("Validity changed sucessfully")


def add_subscriber():
    n=input("Enter the subscriber name:")
    id=input("Enter user id:")
    em=input("Enter the subscriber email id:")
    ott=input("Enter subcriber of which ott?")
    plans=input("Enter the subscriber plans:")
    validity=input("Enter validity:")
    sq='insert into subscribers values(%s,%s,%s,%s,%s,%s);'
    c.execute(sq,(n,id,em,ott,plans,validity,))
    db.commit()


def delete_subscriber():
    userid=input("Enter user id to be deleted:")
    c.execute('delete from subscribers where user_id=%s;',(userid,))
    db.commit()
    print("Deleted successfully")
def admin():
```

```
    print("ADMIN")
    print("\t\tMenu\n1.View all subscribers\n2.Update validity for new subscriber\n3.Delete the records whose validity date expired\n4.Add new subscriber\n5.Delete a subcriber\n6.Exit")
    while True:
        ch=int(input("Enter choice ADMIN:"))
        if ch==1:
            view_allsubscriber()
        elif ch==2:
            new_subscribervalidity()
        elif ch==3:
            expired_subscriber()
        elif ch==4:
            add_subscriber()
        elif ch==5:
            delete_subscriber()
        elif ch==6:
            print("Exited from admin mode")
            break
def user():
    print("""MENU
    1.NETFLIX
     2.AMAZON PRIME
     3.HOTSTAR
     4.ZEE
     5.EXIT""")
    while True:
        ch=int(input("Enter choice:"))
```

```
        if ch==1:
            netflix_user()
        elif ch==2:
            amazonprime_user()
        elif ch==3:
            hotstar_user()
        elif ch==4:
            zee_user()
        elif ch==5:
            print("EXITED FROM USER MODE")
            break
        else:
            print("Invalid choice")

print("\tARE YOU ADMIN OR USER\n1.ADMIN\n2.USER")
while True:
    ch=int(input("Enter choice:ADMIN/USER"))
    if ch==1:
        admin()
    elif ch==2:
        user()

    elif ch==3:
        print("THANK YOU")
        break
```

## SAMPLE OUTPUT

True

ARE YOU ADMIN OR USER

1.ADMIN

2.USER

Enter choice:ADMIN/USER1

ADMIN

Menu

1. View all subscribers
2. Update validity for new subscriber
3. Delete the records whose validity date expired
4. Add new subscriber
5. Delete a subcriber
6. Exit

Enter choice ADMIN:1

.CLICK 1 TO VIEW ALL OTT APPS SUBSCRIBER

2.VIEW NETFLIX SUBSCRIBER

3. IEW AMAZON PRIME SUBSCRIBER
4. IEW HOTSTAR SUBSCRIBER
5. IEW ZEE SUBSCRIBER
6. EXIT

Enter the choice (VIEW SUBS)2

('andrew', 'peter@18', 'andrew18@gmail.com', 'netflix', 'basic plan', datetime.date(2023, 1, 28))

('dhars', 'ruby8', 'rubydhars@gmail.com', 'netflix', 'premium', datetime.date(2023, 1, 29))

('wanda vision', 'vision01', 'wandavision12@gmail.com', 'netflix', 'standard plan', datetime.date(2023, 2, 2))

('theja', 'theja09', 'thejame@gmail.com', 'netflix', 'standard plan', datetime.date(2023, 1, 29))

('clark', 'henrey07', 'clarkhenry@gmail.com', 'netflix', 'standard plan', datetime.date(2022, 9, 20))

('chris evans', 'chrischap', 'captainameria@gmail.com', 'netflix', 'mobile plan', datetime.date(2023, 2, 1))

Enter the choice (VIEW SUBS)3

('tobey', 'tobeykhan11', 'dvtobey@gmail.com', 'amazonprime', 'quarterly plan', datetime.date(2023, 1, 15))

('loki', 'lokiverse', 'loki12verse@gmail.com', 'amazonprime', 'yearly plan', datetime.date(2023, 2, 28))

('raksh', 'raku18', 'rak18@gmail.com', 'amazonprime', 'quarterly plan', datetime.date(2023, 6, 29))

('bruce', 'hulkb', 'hulkdrbruce@gmail.com', 'amazonprime', 'monthly plan', datetime.date(2022, 2, 8))

Enter the choice (VIEW SUBS)4

('tom', 'tom07', 'tomholland@gmail.com', 'hotstar', 'premium', datetime.date(2023, 4, 1))

('shang chi', 'shang', 'tenrings@gmail.com', 'hotstar', 'mobile', datetime.date(2022, 12, 26))

('edrik', 'venom04', 'edvenom@gmail.com', 'hotstar', 'mobile', datetime.date(2023, 12, 29))

('tony stark', 'ironman2', 'starkironman@gmail.com', 'hotstar', 'premium', datetime.date(2023, 5, 23))

('jordan', '88jordan@', 'jordar8@gmail.com', 'hotstar', 'super', datetime.date(2024, 1, 1))

Enter the choice (VIEW SUBS)5

('groot ', 'grootsm', 'galaxygroot@gmail.com', 'zee', 'super', datetime.date(2023, 12, 29))

('bobi', 'kbohi11', 'kahanbobi@gmail.com', 'zee', 'year plan', datetime.date(2022, 12, 1))

('steve rogers', 'steve14', 'steve14@gmail.com', 'zee', 'month plan', datetime.date(2023, 4, 1))

Enter the choice (VIEW SUBS)6

Enter choice ADMIN:2

Validity changed sucessfully

Enter choice ADMIN:3

('shang chi', 'shang', 'tenrings@gmail.com', 'hotstar', 'premium', datetime.date(2022, 12, 26))

SWITCHED TO USER MODE

PLEASE CLICK your respective platform choice and ch 5 your platform is: hotstar

MENU

1. NETFLIX
2. AMAZON PRIME
3. HOTSTAR
4. ZEE
5. EXIT

Enter choice:3

Welcome to Hotstar platform!!!

MENU

1. To Login
2. New to Hotstar? Sign in
3. Exit

Enter the choice HOTSTAR:1

To login please enter your user id password!!

Enter your user id:shang

Enter your name:shang chi

Enter your password:tenrings

SUCCESSFULLY LOGIN!!!!

WELCOME TO HOTSTAR!!!

MENU,

1.See your previous plan details

2.View hotstar plans,

3.Change your plan

4.Delete your account

5.Renew your account

6.Exit

Enter your choice-LOGIN:5

YOUR ACCOUNT VALIDITY IS OVER/n DO YOU WANT TO RESTART YOUR ACCOUNT

Enter yes/noyes

Your previous plan is: ('premium',)

DO YOU WANT TO CONTINUE THE SAME PLAN

Enter y/n for continuation:n

Enter which plan you want to change:premium

Successfully updated

After updation

('shang chi', 'shang', 'tenrings@gmail.com', 'hotstar', 'premium', datetime.date(2022, 12, 26))

Enter your choice-LOGIN:6

EXITED FROM HOTSTAR

Enter the choice HOTSTAR:3

EXITING FROM HOTSTAR

Enter choice:5

EXITED FROM USER MODE

Enter choice ADMIN:4

Enter the subscriber name:angela

Enter user id:angele77

Enter the subscriber email id:angelabasset@gmail.com

Enter subcriber of which ott?amazonprime

Enter the subscriber plans:monthly plan

Enter validity:2023-02-01

Enter choice ADMIN:5

Enter user id to be deleted:raku18

Deleted successfully

Enter choice ADMIN:6

Exited from admin mode

Enter choice:ADMIN/USER2

MENU

1. NETFLIX
2. AMAZON PRIME
3. HOTSTAR
4. ZEE
5. EXIT

Enter choice:1

Welcome to Netlix platform!!!

MENU

1. To Login
2. New to Netlix? Sign in

3.Exit

Enter the choice:NETFLIX1

To login please enter your user id password!!

Enter your user id:peter@18

Enter your name:andrew

Enter your password:peterparker

SUCCESSFULLY LOGIN!!!!

WELCOME TO NETFLIX

MENU,

1.See your previous plan details

2.View netflix plans,

3.Change your plan

4.Delete your account

5.Renew you account

.6.Exit

Enter your choice:1

Your previous plan is: ('basic plan',)

Enter your choice:2

('Mobile plan', 149, 1, 'MOBILE,TABLETS')

('Basic plan', 199, 1, 'MOBILE,TABLETS,LAPTOP,TV')

('Standard plan', 499, 2, 'MOBILE,TABLETS,LAPTOP,TV')

('Premium', 649, 4, 'MOBILE,TABLETS,LAPTOP,TV')

Enter your choice:3

Enter which plan you want to change:mobile plan

Successfully updated

After updation

('andrew', 'peter@18', 'andrew18@gmail.com', 'netflix', 'mobile plan', datetime.date(2023, 1, 28))

Enter your choice:6

EXITED FROM NETFLIX

Enter the choice:NETFLIX3

Exited from netflix

Enter choice:2

Welcome to Amazon Prime platform!!!

MENU

1.To Login

2.New to Amazon prime? Sign in

3.Exit

Enter the choice AMAZON PRIME:1

To login please enter your user id password!!

Enter your user id:tobeykhan11

Enter your name:tobey

Enter your password:khan11

SUCCESSFULLY LOGIN!!!!

WELCOME TO AMAZON PRIME!!!

MENU,

1.See your previous plan details

2.View amazon prime plans,

3.Change your plan

4.Delete your account

5.Renew your account

6.Exit

Enter your choice:1

Your previous plan is: ('quarterly plan',)

Enter your choice:2

('monthly plan', 179, 'one month')

('quarterly plan', 459, '3 month')

('yearly plan', 1499, '1 year')

Enter your choice:6

EXITED FROM AMAZON PRIME

Enter the choice AMAZON PRIME:2

Lets get started!1

To create your amazon prime account please enter your user id and password!

Step 1/2

Enter your user id:gabriel33

Enter your name:gabriel

Enter your email id:gab33@gmail.com

Enter your password:1233gab

Step 2/2

CHOOSE YOUR PLANS

('monthly plan', 179, 'one month')

('quarterly plan', 459, '3 month')

('yearly plan', 1499, '1 year')

Which plan do you want to choose:quarterly plan

ACCOUNT CREATED SUCCESSFULLY

Enter the choice AMAZON PRIME:3

EXITING FROM AMAZONPRIME

Enter choice:3

Welcome to Hotstar platform!!!

MENU

1. To Login
2. New to Hotstar? Sign in
3. Exit

Enter the choice HOTSTAR:1

To login please enter your user id password!!

Enter your user id:tom07

Enter your name:tom

Enter your password:sptom

SUCCESSFULLY LOGIN!!!!

WELCOME TO HOTSTAR!!!

MENU,

1.See your previous plan details

2.View hotstar plans,

3.Change your plan

4.Delete your account

5.Renew your account

6.Exit

Enter your choice-LOGIN:1

Your previous plan is: ('premium',)

Enter your choice-LOGIN:2

('Mobile', '149/3 months', 1, '4k')

('Super', '899/year', 2, 'hd')

('Premium ', '1499/year', 4, 'hd')

Enter your choice-LOGIN:3

Enter which plan you want to change:super

Successfully updated

After updation

('tom', 'tom07', 'tomholland@gmail.com', 'hotstar', 'super', datetime.date(2023, 4, 1))

Enter your choice-LOGIN:6

EXITED FROM HOTSTAR

Enter the choice HOTSTAR:3

EXITING FROM HOTSTAR

Enter choice:4

Welcome to Zee platform!!!

MENU

1.To Login

2.New to Zee? Sign in

3.Exit

Enter the choice ZEE:1

To login please enter your user id password!!

Enter your user id:steve14

Enter your name:steve rogers

Enter your password:roger14

SUCCESSFULLY LOGIN!!!!

WELCOME TO ZEE!!!

MENU,

1.See your previous plan details

2.View zee plans,

3.Change your plan

4.Delete your account

5.Renew your account

6.Exit

Enter your choice:1

Your previous plan is: ('month plan',)

Enter your choice:2

('Year plan', 499, '1 year', 3)

('Month plan', 299, '3 month', 2)

Enter your choice:6

EXITING FROM ZEE

Enter the choice ZEE:2

Lets get started!1

To create your hotstar account please enter your user id and password!

Step 1/2

Enter your user id:emily44

Enter your name:emily

Enter your email id:emily4407@gmail.com

Enter your password:emil144

Step 2/2

CHOOSE YOUR PLANS

('Year plan', 499, '1 year', 3)

('Month plan', 299, '3 month', 2)

Which plan do you want to choose:year plan

ACCOUNT CREATED SUCCESSFULLY

Enter the choice ZEE:3

EXITING FROM ZEE

Enter choice:5

EXITED FROM USER MODE

Enter choice:5

EXITED FROM USER MODE

Enter choice:ADMIN/USER3

THANK YOU

# BIBLIOGRAPHY

CLASS 12 SUMITA AURORA TEXT BOOK