

Class 12

@SPACE\_ARS

# Computer Science Project

Prepared by-

SPACECRAFT  
RESERVATION AND  
MANAGEMENT

SPACE\_ARS

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# **#SQUAD**



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**SECTION : A**

**SUBJECT : COMPUTER SCIENCE**

**SUB CODE : 083**

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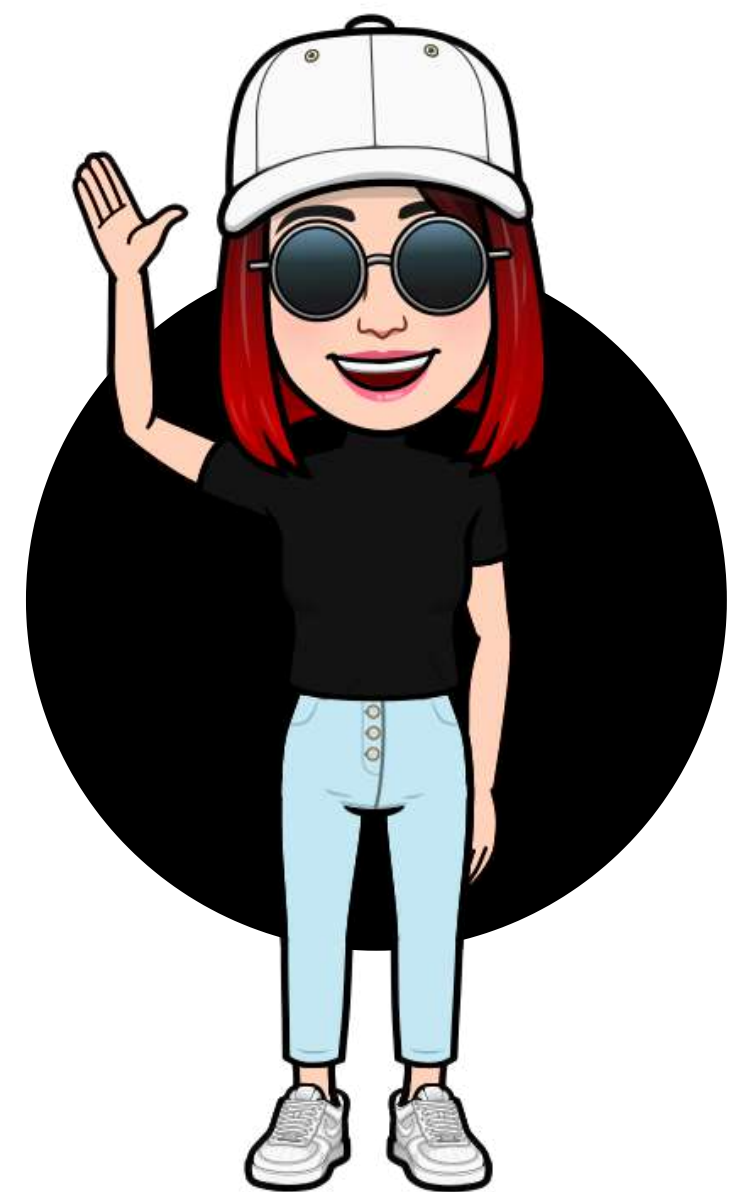
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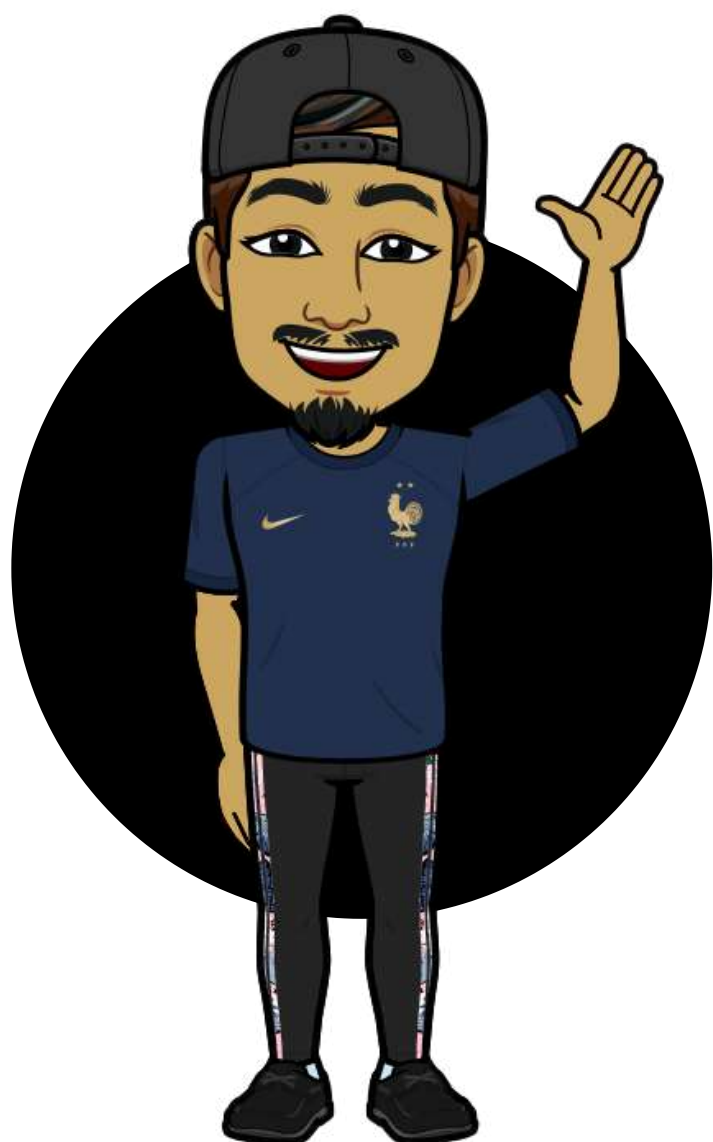
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**SUBJECT : COMPUTER SCIENCE**

**SUB CODE : 083**



# **CERTIFICATE OF COMPLETION**

**This is to certify Master/Miss**

**\_\_\_\_\_ a student of class XII**

**has successfully completed the Project  
Programming for "SPACECRAFT  
RESERVATION AND MANAGEMENT", under  
the guidance of Mrs. R SRIKEERTHY, PGT(C.S.)  
during year 2022-2023 in partial fulfillment of  
computer science practical examination  
conducted by AISSCE 2023.**

**DATE:**

**INTERNAL  
EXAMINER**

**EXTERNAL  
EXAMINER**

**PRINCIPAL**

# ACKNOWLEDGEMENT

*I would like to Express my special thanks of gratitude to my subject teacher **Mrs. R SRIKEERTHY,PGT (C.S.)** as well as our Principal **Mr.S ARUMUGAM** who gave us the golden opportunity to do this wonderful project on the topic - "**SPACECRAFT RESERVATION AND MANAGEMENT**" which also helped us in doing a lot of research and we came to know about so many new things.*

*Secondly, We would like to thank our friends ,family all those people who helped us a lot in finalising this project within the limited time frame.*

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# **BRIEF OVERVIEW OF PROJECT**

- **The main objective of the python project or spaceship ticket reservation and management of the details of accounts, booking, class, food luggage ,payments, seats, and spaceship.**
- **The project is totally built at administrative end and only administrator is guaranteed the access.**
- **The purpose of the project is to build an application program to reduce the manual work for managing the booking, seats, and payments etc.**
- **It tracks all the details about seats, spaceship, and payments; it also prints various reports as per input given by the user.**
- **We tried to maximise the efficiency and strived for the customer ans user ease as well as satisfaction.**

# INPUT DATA AND VALIDATION OF PROJECT

*#SPACE\_ARS is a hypothetical company,  
which takes Interstellar trips to and fro to  
Mars.*

*This project deals with the management of  
the creating and accessing accounts, booking  
seats ,food, luguage, payment etc*

**# All the fields such as Spacecraft payments  
are validated and does not take invalid values.**

**#Each form of sales, discounts, bookings cannot  
accept the blank values.**

**# Avoiding errors in data.**

**# Controlling amount of input.**

# **SOFTWARE AND HARDWARE REQUIREMENTS:**

Data file handling has been effectively used in the program. The database is a collection of interrelated data to serve multiple applications. That is database programs create files of information. So we see that files are worked with most, inside the program.

**DBMS:** The software required for the management of data is called as DBMS. It has 3 models:

- Relation model
- Hierarchical model
- Network model

**RELATIONAL MODEL:** It's based on the concept on relation. Relation is the table that consists of rows and columns. The rows of the table are called tuple and the columns of the table are called attribute. Numbers of rows in the table is called as cardinality. Number of columns in the table is called as degree.

**HIERARCHICAL MODEL:** In this type of model, we have multiple records for each record. A particular record has one parent record. No child record can exist without parent record. In this, the records are organized in tree.



**NETWORK MODEL:** In this, the data is represented by collection of records and relationship is represented by (link or association).

**CHARACTERISTICS OF DBMS:**

- It reduces the redundancy
- Reduction of data in inconsistency
- Data sharing
- Data standardization

**DIFFERENT TYPES OF FILES: -BASED ON ACCESS:**

- Sequential file
  - Serial file
  - Random (direct access) file
- BASED ON STORAGE:-**
- Text file
  - Binary File

# SOFTWARE AND HARDWARE REQUIREMENTS:

## HARDWARE SPECIFICATIONS:

- |               |  |
|---------------|--|
| • System      | Laptop   |
| • Processor   | 11th Gen Intel(R) Core(TM) i5-11300H<br>@ 3.10GHz 2.61 GHz |
| • Ram         | 8GB  |
| • System Type | 64-bit operating system, x64-based<br>processor            |
| • Monitor     | 15.6 inch  |
| • Key board   | 101 keys   |

## SOFTWARE SPECIFICATIONS:

- |                            |                     |
|----------------------------|---------------------|
| • Operating system         | WINDOWS 11          |
| • Programming language     | Python              |
| • Compiler                 | SPYDER (Anaconda 3) |
| • Database                 | MySQL Server        |
| • Software Development Kit | PYTHON 3.9          |
| • Database Driver          | MySQL Connector     |



## **MODULES :**

- `import mysql.connector` : By importing this module we are able to establish the connection between SQL and Python .
- `import time`: Python time module allows to work with time in Python. It allows functionality like getting the current time, pausing the Program from executing, etc

## **FUNCTIONS :**

- `connect()` : This function establishes connection between python and MySQL
- `cursor()` : It is a special control structure that facilitates the row-by-row processing of records in the result set .  
Syntax : `=.cursor()`
- `execute()` : This function is used to execute the sql query and retrieve records upon using python .  
Syntax : `.execute()`

- `def()` : A function is a set of statements that is executed when it is called . The `def` function is used to define a specific function that can be executed when called upon
- `fetchall()` : This function will return all the rows from the result set in the form of a tuple containing the records .
- `fetchone()` : This function will return one row from the result set in the form of a tuple containing the records
- `commit()` : this function provides the change in database physically



# **NEED OF COMPUTERISATION**

- **Over the decades computers and ticket bookings have developed gradually, changed with time. But nobody knew that a time will come when both these fields will complement each other so well.**
- **Computer technology is making waves in the flight booking zone. Computers are a vital component of the ticket booking counters. Computer aided design (CAD) programs reduce the demand for manual sketches.**
- **New software programs continue to replace old manual skills. Those who lag in math can now breathe a little easier. Manually figuring of tickets insists that knowledge. Software programs constantly evolve. A program used today may be obsolete within several years. Being trained on today's software does not guarantee it will be used when you are ready to go out into the field. Understanding calculations is timeless, as is computer competency. Software, however, shifts rapidly.**

# **ADVANTAGES**

1. It generates the report on accounts, class, food, luggage, seat etc .
2. Provides filter report on payments and booking.
3. We can easily export PDF on sales, products and stocks.
4. Applications can also provide excel export for booking and discounts.
5. It deals with monitoring the information and transaction of ticket bookings.
6. It increases the efficiency of booking and the management.
7. It has higher efficiency of editing, adding and updating of records.
8. Provides the searching facilities on various factors.

# **LIMITS**

1. Excel export has not been developed for bookings.
2. The transactions are executed in offline mode only.
3. Online transactions for sales, bookings, or other data modifications are not possible.
4. Offline reports of sales, bookings, and cannot be generated due to batch mode execution.



# **Future**

# **Enhancements**

- 1. The solutions are given as a proposal. The suggestion is revised on user request and optimal changes are made. This loop terminates as soon as the user is gratified with the proposal.**
- 2. So on the whole, system analysis is done to improve the system performance by monitoring it and obtaining the best throughput possible from it. Therefore system analysis plays a crucial role in designing any system.**
- 3. This is basically an interface of global distribute system to carry out reservation and management of the spacecraft.**
- 4. The system make the life of passengers very easy as they don't need to stand in queues for getting their seats reserved.**
- 5. They can easily make reservation of spacecraft just from a single system. On the other hand, it also remove an extra burden from the spaceship department as most of the passengers and travel agencies use this service instead of making reservations from the counters.**

# #ABOUT US

The space\_ARC is a spacecraft manufacturer, space launch provider, and a satellite communications company founded by Arunoday,Rakshana and Samuel Ragland with the goal of reducing space transportation costs to enable the colonization of Mars and provides real time best experience of the spacecraft and Mars.

Space\_ARC focuses to provide with the best space experience with the most affordable costs .It provides a facile management of the booking, seats, and payments etc.

Our aim is to make space\_ARC reach eternal heights in this arena and provide the best experience.

## MISSIONS

### Mars Interstellar IGNITE\_7105

It provides a 30 days to and fro voyage to Mars with the real time best experience of Mars and life in a spacecraft. Our UI is lucid and intuitive Our space travellers can effortlessly book tickets, create and access accounts ,food, luggage ,payment etc.

# #CONCLUSION

In our project Spacecraft reservation and management system, we have stored all the information about the astronauts and the users booking tickets and even status of seats ,vacancy etc. This data base is helpful for the applications which facilitate to book the spacecraft tickets and management of food,luggage,payment etc. We had considered the most important requirements only, many more features and details can be added to our project in order to obtain even more user-friendly software. These software are already in progress and in future they can be upgraded and may become part of amazing technology.



# #SOURCE CODE

**# SPACE(ARS)**

**# ----- #**

**import mysql.connector  
import time**

**# ----- #**

**connection = mysql.connector.connect(user='root', host='localhost', database='space\_ars',  
passwd='#ur\_password')  
ars = connection.cursor()**

**# ----- #**

**def login():**

**use = input('Enter your Email-ID :').strip()  
ars.execute('select \* from accounts')  
x = ars.fetchall()**

**for i in x:  
 if i[0] == use:  
 paswd = input('Enter your Password :')**

**if paswd == i[1]:  
 print('Verified')  
 main()  
 break**

**else:  
 for j in range(4):**

**print('Incorrect Password !')  
 print('Try again !')  
 pwd = input('Enter your Password :')  
 if pwd == i[1]:  
 print('Verified !')  
 main()  
 break**

**else:  
 print('Access Denied !')  
 print('5 incorrect attempts !')**

**else:  
 print('User not found !')**

**# ----- #**

**def signup():**

**name = input('Enter your Name :').strip()**

**no = input('Enter your Phone Number :').strip()**

**use = name.replace(' ', '\_') + no[-4:].replace(' ', '\_') + '@space\_ars.com'**

**paswd = input('Enter a Password :')**

**ars.execute('insert into accounts values("%s","%s")'%(use, paswd))**  
**connection.commit()**

**print('-----')**

**print('Email-ID :', use)**

**print('Password :', paswd)**

**print('-----')**

**main()**

**# ----- #**

**def main():**

**def register():**

**def show\_seats():**

**ars.execute('select \* from seat')**

**B = ars.fetchall()**

**for i in B:**

**for j in range(5):**

**print(i[j], end=' ')**

**print()**

**# ----- #**

**def is\_vacant(R, S):**

**ars.execute('select %s from seat where row\_no = %s'%(S, R))**

**X = ars.fetchone()**

**if X[0] == 'V':**

**return True**

**else:**

**return False**

**# ----- #**

```

def book_seat():

    row = int(input('Enter the Row :'))
    seat = chr(64+int(input('Enter the Seat :')))

    if is_vacant(row, seat):

        ars.execute('update seat set %s = "X" WHERE row_no = %s'%(seat, row))
        connection.commit()

        print('Your Desired seat allotted !')
        print('Now Enter your details to register ::>')
        details(row, seat)

    else:

        print('Seat occupied! Choose another seat')
        book_seat()

# ----- #

def details(r, s):

    name = input('Enter your Name :')
    age = int(input('Enter your Age :'))
    seat_no = str(r)+s
    print('Your seat number :', seat_no)

    ars.execute('insert into astronauts values("%s",%s,"%s",0)'%(name, age, seat_no))
    connection.commit()

while True:
    print('* --::> SPACE(ARS) Registration Menu <:-- *')
    1. Show available seats
    2. Book a seat
    3. Exit to Main Menu '')

    ch = int(input('Enter your choice :'))

    if ch == 1:
        show_seats()
        print()
        time.sleep(1.5)

    elif ch == 2:
        book_seat()
        print()
        time.sleep(1.5)

    else:
        break

# ----- #

```



```

def order_food():

    print("* --::> SPACE(ARS) Cafe' <::-- *")

    s = input('Enter your seat number :')
    ars.execute('select Name from astronauts where Seat_No = "%s"'%(s))
    x = ars.fetchone()

    if x is None:
        print('Invalid Seat Number !')
    else:
        print(x[0], ', Welcome to SPACE(ARS) Cafe!', sep='')
        print()

    while True:
        print('--::> MENU <::--')
        ars.execute('select * from food')
        y = ars.fetchall()
        for i in y:
            print(i[0], i[1], i[2])

        order = int(input('What would you like to order ?'))
        qty = int(input('How many would you take ?'))
        for i in y:
            if i[0] == order:
                print('You have ordered', qty, 'x', i[1], '-> $', qty*i[2])
                ars.execute('update astronauts set Total_Amount = Total_Amount + %s where
Seat_No = "%s"'%(qty*i[2], s))

                connection.commit()

        z = input('Would you like to order anything else ?')
        if z[0].upper() != 'Y':
            print('Enjoy your Snack !')
            print('Thank you :)')
            break

# ----- #

```

```

def entertainment():

    print('--::>> Space_ARC Entertainment Zone! <<::--')

    s = input('Enter your seat number :')
    ars.execute('select Name from astronauts where Seat_No = "%s"'%(s))
    x = ars.fetchone()

    if x is None:
        print('Invalid Seat Number !')
    else:
        print(x[0], ', Welcome to SPACE(ARC) Entertainment Zone!', sep='')

        print('~ Space_ARC honours your valuable time spent with its SpaceCraft and considers its
clients getting to relax! ')
        time.sleep(5)
        print()
        print('--> Here are a list of activities you can choose to entertain yourself !')
        time.sleep(5)

    while True:
        ars.execute("select * from entertainment")
        o = ars.fetchall()
        print()

        for i in o:
            print(i[0], ' - ', i[1], ' - $', i[2], sep='')

        c = int(input('Choose any activity for your Entertainment :'))

        for i in o:
            if c == i[0]:
                print('You have chosen -> ', i[1], ' - $', i[2], sep='')
                break

        ars.execute('update astronauts set Total_Amount = Total_Amount + %s where Seat_No =
"%s"'%(i[2], s))
        connection.commit()

        x = input('Would you like to choose more activities ?')
        if x.upper() != 'Y':
            break

# ----- #

```

```

def choose_class():

    s = input('Enter your seat number :')
    ars.execute('select Name from astronauts where Seat_No = "%s"'%(s))
    x = ars.fetchone()

    if x is None:
        print('Invalid Seat Number !')

    else:

        ars.execute('select * from chosen_class')
        x = ars.fetchall()

        for i in x:
            if i[0] == s:
                print('You have already opted', i[1], 'Class !')
                break

        else:

            ars.execute('select * from class')
            x = ars.fetchall()
            for i in x:
                print(i[0], i[1], '-> $', i[2])

            c = int(input('Choose a Class for your journey :'))
            for i in x:
                if i[0] == c:

                    print('You have opted for', i[1], 'class ! -> $', i[2])

                    ars.execute('insert into chosen_class values("%s","%s")'%(s, i[1]))
                    connection.commit()

                    ars.execute('update astronauts set Total_Amount = Total_Amount + %s where
Seat_No = "%s"'%(i[2], s))
                    connection.commit()

            # ----- #

```



```

def luggage():

    s = input('Enter your seat number :')
    ars.execute('select Name from astronauts where Seat_No = "%s"'%(s))
    x = ars.fetchone()

    if x is None:
        print('Invalid Seat Number !')
    else:
        ars.execute('select * from total_luggage')
        x = ars.fetchall()

        for i in x:
            if i[0] == s:
                print('You have already entered your luggage !')
                break

        else:
            x.append(s)

            ars.execute('select * from luggage')
            x = ars.fetchall()
            for i in x:
                print(i[0], i[1], '-> $', i[2])

            c = int(input('Enter your luggage Weight in kg :'))

            ars.execute('insert into total_luggage values("%s",%s)'%(s, c))
            connection.commit()

            if c < 10 and c > 0:
                w = 1
            elif c >= 10 and c <= 20:
                w = 2
            elif c > 20 and (c != 0 or c < 0):
                w = 3
            else:
                w = 0

            for i in x:
                if i[0] == w:
                    print('Your luggage is', i[1], '-> $', i[2])
                    ars.execute('update astronauts set Total_Amount = Total_Amount + %s where
Seat_No = "%s"'%(i[2], s))
                    connection.commit()

# ----- #

```

```

def payment():

    s = input('Enter your Seat Number to proceed :')

    ars.execute('select * from astronauts where Seat_No = "%s"'%(s,))
    x = ars.fetchone()

    if x is None:
        print('Invalid Seat Number !')

    else:
        ars.execute('select * from payment')
        x = ars.fetchall()

        for i in x:
            if i[2] == s:
                print('You have already paid the Bill !')
                break

        else:
            ars.execute('select * from astronauts where Seat_No = "%s"'%(s,))
            x = ars.fetchone()

            ars.execute('select * from chosen_class where Seat = "%s"'%(s,))
            c = ars.fetchone()

            ars.execute('select * from total_luggage where Seat = "%s"'%(s,))
            w = ars.fetchone()

            print('****> Check your details <****')

            print()
            print('-----')
            print()

            print('Name :', x[0])
            print('Age :', x[1])
            print('Class :', c[1])
            print('Luggage :', w[1], 'kg')
            print('Seat Number :', x[2])
            print('Total amount to be paid* : $', x[3], sep='')
            print('      *Includes Food Bill !')

            print()
            print('-----')
            print()
            time.sleep(1.5)

            ch = input('Proceed to payment ?')

```

```
if ch[0].upper() == 'Y':  
    print('- Payment Options -')
```

**1. Google Pay ->**

**2. PhonePe ->**

**3. BitCoin ->**

```
'''
```

```
c = int(input('Choose your Mode of Payment :'))
```

```
if c == 1:
```

```
    print('You have chosen Google Pay !')
```

```
    print()
```

```
    print('Redirecting to Google Pay', end='')
```

```
    for arun in range(5):
```

```
        print('.', end='')
```

```
        time.sleep(1)
```

```
    print()
```

```
    print(x[0].upper())
```

```
    print('$', x[3], ' to Space_AR$ !')
```

```
y = input('Proceed to Payment ?')
```

```
if y[0].upper() == 'Y':
```

```
    print('I hereby promise to pay the bearer a sum of $', x[3], sep='')
```

```
    ars.execute("insert into payment values('%s',%s,'%s','%s')"%(x[0], x[3], x[2], 'GPay'))
```

```
    connection.commit()
```

```
    time.sleep(3)
```

```
    print('Transaction Successful !')
```

```
    time.sleep(1)
```

```
    print('Enjoy your journey!')
```

```
elif c == 2:
```

```
    print('You have chosen PhonePe !')
```

```
    print()
```

```
    print('Redirecting to PhonePe', end='')
```

```
    for raksh in range(5):
```

```
        print('.', end='')
```

```
        time.sleep(1)
```

```
    print()
```

```
    print(x[0].upper())
```

```
    print('$', x[3], ' to Space_AR$ !')
```



```
y = input('Proceed to Payment ?')
if y[0].upper() == 'Y':
    print('I hereby promise to pay the bearer a sum of $', x[3], sep='')

    ars.execute("insert into payment values('%s',%s,'%s','%s')"%(x[0], x[3], x[2], 'PhonePe'))
    connection.commit()
    time.sleep(3)

    print('Transaction Successful !')
    time.sleep(1)
    print('Enjoy your journey!')
```

```
elif c == 3:
    print('You have chosen Bitcoin !')
    print()
    print('Redirecting to Bitcoin', end='')
    for zam in range(5):
        print('.', end='')
        time.sleep(1)

    print()

    print(x[0].upper())
    print(float(x[3])/16576.8, 'Bitcoins to be paid !')
```

```
y = input('Proceed to Payment ?')
if y[0].upper() == 'Y':
    print('I hereby promise to pay the bearer a sum of ', float(x[3])/16576.8, ' BitCoins', sep='')

    ars.execute("insert into payment values('%s',%s,'%s','%s')"%(x[0], x[3], x[2], 'BitCoin'))
    connection.commit()
    time.sleep(3)

    print('Transaction Successful !')
    time.sleep(1)
    print('Enjoy your journey!')
```

# ----- #

```

def know_about_space_ars():

    print('-----:::>>>  SPACE(ARS) <<<:::-----')
    print()
    time.sleep(2)

    print('--> The Space_ARS  is a spacecraft manufacturer, space launch provider, and a
satellite communications company founded by Arunoday, Rakshana and Samuel Ragland.')
    print()
    time.sleep(7)

    print("--> With the goal of reducing space transportation costs and to enable the
colonization of Mars and provide real time best experience of the spacecraft and Mars,
SPACE_ARS has come to it's client's service.")
    print()
    time.sleep(10)

    print('--> Space_ARS  focuses to provide with the best space experience with the most
affordable costs .')
    print()
    time.sleep(5)

    print('--> It provides a facile management of the booking seats and payments')
    print()
    time.sleep(5)

    print('--> Our motive is to make Space_ARS reach eternal heights in this arena and
provide the best experience for everyone who wishes to explore the vast majorness of the
space that lies above the face of the earth.')
    print()
    time.sleep(8)

    print('--::> Our Mission <::--')
    print()
    time.sleep(2)

    print('--::>> Mars Interstellar IGNITE_7105   <<::--')
    time.sleep(2)

    print('""It provides a 30 days to and fro voyage to Mars with the real time best experience
of Mars and life in a spacecraft. Our UI is lucid and intuitive. Our space travellers can
effortlessly book tickets, create and access accounts, food, entertainment, luggage
,payment etc.""')
    time.sleep(20)

# ----- #

```

```

def knowARSrules():
    print(' --::>> Space_ARS Rules and Regulations <<::-- ')
    print()
    print(' ::> Set of Rules which needs to be followed by every Denizen of this SpaceCraft ')
    print()
    print('-- GENERAL RULES --')
    time.sleep(3)
    print(' 1. No Smoking is allowed in the SpaceCraft premises.')
    time.sleep(3)
    print(' 2. Prohibition is to be strictly followed.')
    time.sleep(3)
    print(' 3. Children under the age of 10 are not allowed.')
    time.sleep(3)
    print(' 4. Wastes and used materials should be disposed properly both inside and
outside the SpaceCraft.')
    time.sleep(3)
    print()
    print('-- PAYMENT RULES --')
    time.sleep(2)
    print(' 1. No Cancellation of Tickets.')
    time.sleep(3)
    # ----- #

while True:
    print()
    print(' --::>> Space(ARS) Main menu <<::-- ')
    print('
    1. Know about Space(ARS) ->
    2. Space_ARS Rules and Regulations ->
    3. Go to Registration Menu ->
    4. Go to Space(ARS) cafe ->
    5. Go to Entertainment Club ->
    6. Choose a Class ->
    7. Add your Luggage ->
    8. Proceed to Payment ->
    9. Exit
    ')
    c = int(input('Enter your choice :'))
    if c == 1:
        know_about_space_ars()
        time.sleep(2)

    elif c == 2:
        knowARSrules()
        time.sleep(2)

    elif c == 3:
        register()
        time.sleep(2)

    elif c == 4:
        order_food()
        time.sleep(2)

```



```

elif c == 5:
    entertainment()
    time.sleep(2)

elif c == 6:
    choose_class()
    time.sleep(2)

elif c == 7:
    luggage()
    time.sleep(2)

elif c == 8:
    payment()
    time.sleep(2)

elif c == 9:
    print('' #  © [ A R S ] ~ Arunoday Rakshana Samuel  # ''')
    break

else:
    print('Invalid choice !')

# ----- #

print('-----:::>>>  SPACE(ARS) <<<:::-----')
time.sleep(1)

print(''
1. Log in to your Space(ARS) account ->
2. Sign up ( Create a new Space(ARS) account ) ->
3. Exit Space(ARS) ->
'')
ch = int(input('Enter your choice :'))

if ch == 1:
    login()

elif ch == 2:
    signup()

# ----- #

ars.close()
connection.close()

# ----- #

'' #  © [ A R S ] ~ Arunoday Rakshana Samuel  # ''

```

**Scan for  
Source code!**



# #BACKEND MYSQL

```
mysql> use space_ars;
```

```
Database changed
```

```
mysql> show tables;
```

```
+-----+
| Tables_in_space_ars |
+-----+
| accounts             |
| astronauts           |
| chosen_class         |
| class               |
| entertainment        |
| food                 |
| luggage              |
| payment              |
| seat                 |
| total_luggage        |
+-----+
```

```
10 rows in set (0.00 sec)
```

```
mysql> desc accounts;
```

```
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| username   | varchar(50)   | YES  |     | NULL    |       |
| password   | varchar(30)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

```
2 rows in set (0.00 sec)
```

```
mysql> desc astronauts;
```

```
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Name           | varchar(20)   | YES  |     | NULL    |       |
| Age            | int           | YES  |     | NULL    |       |
| Seat_No        | varchar(3)    | NO   | PRI | NULL    |       |
| Total_Amount   | decimal(7,2)  | YES  |     | 0.00    |       |
+-----+-----+-----+-----+-----+-----+
```

```
4 rows in set (0.00 sec)
```

```
mysql> desc chosen_class;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Seat  | varchar(3)    | YES  |     | NULL    |       |
| Class | varchar(20)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

```
2 rows in set (0.00 sec)
```

```
mysql> select * from class;
```

S_no	Class	Price
1	Economy	10000.00
2	Business	15000.00
3	Premium	25000.00

3 rows in set (0.00 sec)

```
mysql> select * from entertainment;
```

Sno	Type_of_Entertainment	Price
1	Movies	20.00
2	Football	50.00
3	Cricket	30.00
4	BasketBall	40.00
5	Snooker	10.00
6	Bowling	25.00
7	Tennis	35.00
8	Zero Gravity Swimming	90.00
9	Relax Villas	40.00
10	Karaoke	20.00
11	Boxing	18.00
12	SpaceView Room	10.00
13	Chilling Bar	20.00

13 rows in set (0.00 sec)

```
mysql> select * from food;
```

S_no	Item_Name	Rate
1	Tea	1.50
2	Coffee	2.00
3	Soft Drink	2.50
4	Sandwich	3.00
5	Dhokla	2.50
6	Kachori	3.00
7	Milk	1.00
8	Noodles	3.50
9	Pasta	3.50
10	Samosa	2.50

10 rows in set (0.00 sec)

```
mysql> select * from luggage;
```

S_no	Weight	Price
1	< 10 kg	50.00
2	>= 10 kg & <= 20 kg	200.00
3	> 20 kg	500.00

3 rows in set (0.00 sec)

```
mysql> desc payment;
```

Field	Type	Null	Key	Default	Extra
UserName	varchar(20)	YES		NULL	
AmountPaid	decimal(9,2)	YES		NULL	
Seat_No	varchar(3)	YES		NULL	
Mode_of_Payment	varchar(20)	YES		NULL	

```
4 rows in set (0.00 sec)
```

```
mysql> desc total_luggage;
```

Field	Type	Null	Key	Default	Extra
Seat	varchar(3)	YES		NULL	
Weight	decimal(5,2)	YES		NULL	

```
2 rows in set (0.00 sec)
```

```
mysql> select * from seat;
```

A	B	C	D	E	row_no
V	V	V	V	V	1
V	V	V	V	V	2
V	V	V	V	V	3
V	V	V	V	V	4
V	V	V	V	V	5
V	V	V	V	V	6
V	V	V	V	V	7
V	V	V	V	V	8
V	V	V	V	V	9
V	V	V	V	V	10

```
10 rows in set (0.00 sec)
```

```
mysql> _
```



# #OUTPUTS

```
SPACE(ARS) /A x
Python
Type "copyright", "credits" or "license" for more information.

IPython -- An enhanced Interactive Python.

In [1]: runfile('C:/Users/ARUNODAY/Desktop/SPACE (ARS) /SPACE_ARS 🚀.py',
wdir='C:/Users/ARUNODAY/Desktop/SPACE (ARS) ')
-----:::;>>> 🚀 SPACE (ARS) 🚀 <<<:::;-----

    1. Log in to your Space(ARS) account ->
    2. Sign up ( Create a new Space(ARS) account ) ->
    3. Exit Space(ARS) ->

Enter your choice :2

Enter your Name :Elon Musk

Enter your Phone Number :9714651131

Enter a Password :Musk@Starlink
-----
Email-ID : Elon_Musk1131@space_ars.com
Password : Musk@Starlink
-----

--::;>> Space(ARS) Main menu <<::--

    1. Know about Space(ARS) 🚀 ->
    2. Space_ARS Rules and Regulations ->
    3. Go to Registration Menu ->
    4. Go to Space(ARS) cafe ->
    5. Go to Entertainment Club ->
    6. Choose a Class ->
    7. Add your Luggage ->
    8. Proceed to Payment ->
    9. Exit

Enter your choice :1
-----:::;>>> 🚀 SPACE (ARS) 🚀 <<<:::;-----

--> The Space_ARS 🚀 is a spacecraft manufacturer, space launch provider,
and a satellite communications company founded by Arunoday, Rakshana and
Samuel Ragland.

--> With the goal of reducing space transportation costs and to enable
the colonization of Mars and provide real time best experience of the
spacecraft and Mars, SPACE_ARS has come to it's client's service.
```

--> Space\_ARS🚀 focuses to provide with the best space experience with the most affordable costs .

--> It provides a facile management of the booking seats and payments

--> Our motive is to make Space\_ARS reach eternal heights in this arena and provide the best experience for everyone who wishes to explore the vast majorness of the space that lies above the face of the earth.

--::> Our Mission <::--

--::>> Mars Interstellar IGNITE\_7105 🚀🔥 <<::--

"It provides a 30 days to and fro voyage to Mars with the real time best experience of Mars and life in a spacecraft. Our UI is lucid and intuitive. Our space travellers can effortlessly book tickets, create and access accounts, food, entertainment, luggage ,payment etc."

--::>> Space(ARS) Main menu <<::--

1. Know about Space(ARS) 🚀 ->
2. Space\_ARS Rules and Regulations ->
3. Go to Registration Menu ->
4. Go to Space(ARS) cafe ->
5. Go to Entertainment Club ->
6. Choose a Class ->
7. Add your Luggage ->
8. Proceed to Payment ->
9. Exit

Enter your choice :2

--::>> Space\_ARS Rules and Regulations <<::--

::> Set of Rules which needs to be followed by every Denizen of this SpaceCraft


-- GENERAL RULES --

1. No Smoking is allowed in the SpaceCraft premises.
2. Prohibition is to be strictly followed.
3. Children under the age of 10 are not allowed.
4. Wastes and used materials should be disposed properly both inside and outside the SpaceCraft.

-- PAYMENT RULES --

1. No Cancellation of Tickets.

--::>> Space(ARS) Main menu <<::--

1. Know about Space(ARS)  ->
2. Space\_ARS Rules and Regulations ->
3. Go to Registration Menu ->
4. Go to Space(ARS) cafe ->
5. Go to Entertainment Club ->
6. Choose a Class ->
7. Add your Luggage ->
8. Proceed to Payment ->
9. Exit

Enter your choice :3

\* --::> SPACE(ARS) Registration Menu <::-- \*

1. Show available seats
2. Book a seat
3. Exit to Main Menu

Enter your choice :1

V V V V V  
V V V V V  
V V V V V  
V V V V V  
V V V V V  
V V V V V  
V V V V V  
V V V V V  
V V V V V  
V V V V V  
V V V V V

\* --::> SPACE(ARS) Registration Menu <::-- \*

1. Show available seats
2. Book a seat
3. Exit to Main Menu

Enter your choice :2

Enter the Row :5

Enter the Seat :3

Your Desired seat allotted !

Now Enter your details to register ::>

Enter your Name :Elon

Enter your Age :51

Your seat number : 5C

\* --::> SPACE(ARS) Registration Menu <::-- \*

1. Show available seats
2. Book a seat
3. Exit to Main Menu

Enter your choice :3

--::>> Space(ARS) Main menu <<::--

1. Know about Space(ARS) 🚀 ->
2. Space\_ARS Rules and Regulations ->
3. Go to Registration Menu ->
4. Go to Space(ARS) cafe ->
5. Go to Entertainment Club ->
6. Choose a Class ->
7. Add your Luggage ->
8. Proceed to Payment ->
9. Exit

Enter your choice :4

\* --::> SPACE(ARS) Cafe' <::-- \*

Enter your seat number :5C

Elon, Welcome to SPACE(ARS) Cafe!

--::> MENU <::--

- 1 Tea 1.50
- 2 Coffee 2.00
- 3 Soft Drink 2.50
- 4 Sandwich 3.00
- 5 Dhokla 2.50
- 6 Kachori 3.00
- 7 Milk 1.00
- 8 Noodles 3.50
- 9 Pasta 3.50
- 10 Samosa 2.50

What would you like to order ?2

How many would you take ?1

You have ordered 1 x Coffee -> \$ 2.00

Would you like to order anything else ?No

Enjoy your Snack !

Thank you :)

--::>> Space(ARS) Main menu <<::--

1. Know about Space(ARS) 🚀 ->
2. Space\_ARS Rules and Regulations ->
3. Go to Registration Menu ->
4. Go to Space(ARS) cafe ->
5. Go to Entertainment Club ->
6. Choose a Class ->
7. Add your Luggage ->
8. Proceed to Payment ->
9. Exit



Enter your choice :5  
--::>> Space\_ARS Entertainment Zone! <<::--

Enter your seat number :5C  
Elon, Welcome to SPACE(ARS) Entertainment Zone!  
~ Space\_ARS honours your valuable time spent with its SpaceCraft and considers its clients getting to relax!

--> Here are a list of activities you can choose to entertain yourself !

- 1 - Movies - \$20.00
- 2 - Football - \$50.00
- 3 - Cricket - \$30.00
- 4 - Basketball - \$40.00
- 5 - Snooker - \$10.00
- 6 - Bowling - \$25.00
- 7 - Tennis - \$35.00
- 8 - Zero Gravity Swimming - \$90.00
- 9 - Relax Villas - \$40.00
- 10 - Karaoke - \$20.00
- 11 - Boxing - \$18.00
- 12 - SpaceView Room - \$10.00
- 13 - Chilling Bar - \$20.00

Choose any activity for your Entertainment :8  
You have chosen -> Zero Gravity Swimming - \$90.00

Would you like to choose more activities ?Y

- 1 - Movies - \$20.00
- 2 - Football - \$50.00
- 3 - Cricket - \$30.00
- 4 - Basketball - \$40.00
- 5 - Snooker - \$10.00
- 6 - Bowling - \$25.00
- 7 - Tennis - \$35.00
- 8 - Zero Gravity Swimming - \$90.00
- 9 - Relax Villas - \$40.00
- 10 - Karaoke - \$20.00
- 11 - Boxing - \$18.00
- 12 - SpaceView Room - \$10.00
- 13 - Chilling Bar - \$20.00

Choose any activity for your Entertainment :12  
You have chosen -> SpaceView Room - \$10.00

Would you like to choose more activities ?N

--::>> Space(ARS) Main menu <<::--

1. Know about Space(ARS) 🚀 ->
2. Space\_ARS Rules and Regulations ->
3. Go to Registration Menu ->
4. Go to Space(ARS) cafe ->
5. Go to Entertainment Club ->
6. Choose a Class ->
7. Add your Luggage ->
8. Proceed to Payment ->
9. Exit

Enter your choice :6

Enter your seat number :5C

- 1 Economy -> \$ 10000.00
- 2 Business -> \$ 15000.00
- 3 Premium -> \$ 25000.00

Choose a Class for your journey :3

You have opted for Premium class ! -> \$ 25000.00

--::>> Space(ARS) Main menu <<::--

1. Know about Space(ARS) 🚀 ->
2. Space\_ARS Rules and Regulations ->
3. Go to Registration Menu ->
4. Go to Space(ARS) cafe ->
5. Go to Entertainment Club ->
6. Choose a Class ->
7. Add your Luggage ->
8. Proceed to Payment ->
9. Exit

Enter your choice :7

Enter your seat number :5C

- 1 < 10 kg -> \$ 50.00
- 2 >= 10 kg & <= 20 kg -> \$ 200.00
- 3 > 20 kg -> \$ 500.00

Enter your luggage Weight in kg :15

Your luggage is >= 10 kg & <= 20 kg -> \$ 200.00

--::>> Space(ARS) Main menu <<::--

1. Know about Space(ARS) 🚀 ->
2. Space\_ARS Rules and Regulations ->
3. Go to Registration Menu ->
4. Go to Space(ARS) cafe ->
5. Go to Entertainment Club ->
6. Choose a Class ->
7. Add your Luggage ->
8. Proceed to Payment ->
9. Exit

Enter your choice :8

Enter your Seat Number to proceed :5C

\*\*\*\*::> Check your details <::\*\*\*\*

-----

Name : Elon

Age : 51

Class : Premium

Luggage : 15.00 kg

Seat Number : 5C

Total amount to be paid\* : \$25302.00

\*Includes Food Bill !

-----

Proceed to payment ?Y

- Payment Options -

1. Google Pay ->
2. PhonePe ->
3. BitCoin ->

Choose your Mode of Payment :3

You have chosen Bitcoin !

Redirecting to Bitcoin.....

ELON

1.5263500796293616 Bitcoins to be paid !

Proceed to Payment ?Y

I hereby promise to pay the bearer a sum of 1.5263500796293616 BitCoins

Transaction Successful !

Enjoy your journey!

--::>> Space(ARS) Main menu <<::--

1. Know about Space(ARS) 🚀 ->
2. Space\_ARS Rules and Regulations ->
3. Go to Registration Menu ->
4. Go to Space(ARS) cafe ->
5. Go to Entertainment Club ->
6. Choose a Class ->
7. Add your Luggage ->
8. Proceed to Payment ->
9. Exit

Enter your choice :9

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**FlipBook!**

