**PYTHON**

**Lab Exersise 3**

**CODE:**

# smartscan\_registration\_module.py

from PIL import Image

# In-Memory Storage: Simulate a database using a list of dictionaries

user\_database = []

# Lambda functions for creating, inserting, and fetching user records

create\_user\_record = lambda name, email, destination, travel\_date: {

    "name": name,

    "email": email,

    "destination": destination,

    "travel\_date": travel\_date

}

insert\_user\_record = lambda record: user\_database.append(record)

fetch\_all\_users = lambda: user\_database

# Function to simulate scanning and decoding SmartScan Code

def scan\_smartscan\_code(image\_path):

    dummy\_data = "Tushar Mahajan,tushar.mahajan@mca.christuniversity.in,Goa,2024-08-15"

    return dummy\_data

# Function to register user from SmartScan

def RegisterUserFromSmartScan(image\_path):

    user\_data = scan\_smartscan\_code(image\_path)

    if user\_data:

        name, email, destination, travel\_date = user\_data.split(',')

        user\_record = create\_user\_record(name, email, destination, travel\_date)

        insert\_user\_record(user\_record)

        print("User registered successfully!")

    else:

        print("Failed to scan the SmartScan Code.")

    print("All registered users:")

    for user in fetch\_all\_users():

        print(user)

# Function to display the dummy image

def display\_image(image\_path):

    img = Image.open(image\_path)

    img.show()

if \_\_name\_\_ == "\_\_main\_\_":

    print("This is a module and should be imported to use the functions.")

# main.py

from smart\_scan\_registration\_module import RegisterUserFromSmartScan, display\_image

# Path to the dummy SmartScan Code image

image\_path = 'qr.jpeg'  # Replace with your actual image path if needed

# Display the dummy image

display\_image(image\_path)

# Register user from SmartScan Code

RegisterUserFromSmartScan(image\_path)

**OUTPUT:**



