problem statement.

Problem pseudo code

Statement:

The problem is that organizations in various sectors are facing challenges in serving customers globally and providing efficient access to their services. Existing procedures for registration, document access, and processing are often lengthy, discouraging potential customers. Additionally, geographical barriers can prevent individuals from accessing services altogether. These issues result in a cumbersome and costly process for both organizations and customers.

Sub-Problems:

Lengthy and inefficient registration process: The current registration process is time-consuming and discourages potential customers from accessing services.

Inefficient document access and processing: Organizations struggle to provide efficient and secure access to documents, leading to delays and potential errors in document processing.

Geographical limitations and accessibility issues: Customers are unable to access services due to geographical barriers, preventing them from benefiting from the organization's offerings.

Sub-Solutions:

**Streamlined registration process:**

Implement an online registration system that allows customers to register in real-time, eliminating the need for physical presence or extensive paperwork.

Simplify the registration form and validation process to minimize user effort and ensure accurate data submission.

Automate registration confirmation and notification to provide instant feedback to customers.

**Functions and the necessary variables including the comments.**

**# function to create account:**

def create organisation(account):

# Create an account for the organization on the platform

// Function to enter user details during registration and check if all necessary fields are correctly entered

**function validate UserDetails(userDetails):**

if userDetails contains all required fields:

// Validate each field according to specific rules like format, length, etc.)

if all fields pass validation rules:

return true // User details are valid

else:

return false // User details are invalid

**variable:** user details, account.

**Efficient document processing and access:**

Develop a secure document storage system that allows organizations and customers to access and manage documents electronically.

Implement robust security measures, such as encryption and access controls, to protect sensitive information and prevent unauthorized access.

Integrate document processing functionalities, such as search, retrieval, and update, to facilitate efficient document management.

# **Document Issuance and QR Code Generation**

def issue\_document(account,userdetails):

# Generate a unique QR code for the document using user details

qr\_code = generate\_qr\_code(userdetails)

# Upload the QR code to the organization's account on the platform

upload\_qr\_code(account, qr\_code)

# Mark the QR code as issued in the system

**Variables**: account, QR code, userdetails.

**Overcoming geographical limitations and accessibility issues:**

Establish a cloud-based infrastructure that allows customers to access services from anywhere in the world, eliminating geographical barriers.

Provide userfriendly interfaces that are accessible on various devices, including desktops, laptops, tablets, and smartphones.

# Document Verification and access

def verify\_document(qr\_code):

# Scan if the QR code is recognized and associated with any organization's account

if \_qr\_code is \_recognized(qr\_code):

# Open the document within the program's interface, indicating its validity

open\_document(qr\_code)

Print "Valid"

else:

print "Invalid"

**variables**: QR code