

Ministry Category : **Indian Space Research Organisation (ISRO)**

Problem Statement : **Secure distribution of restricted documents outside the organization**

Problem Code : **#ISR42**

Current AICTE Application No. : **1-3328528908**

Team Leader Name : **Anup Kumar Panwar**

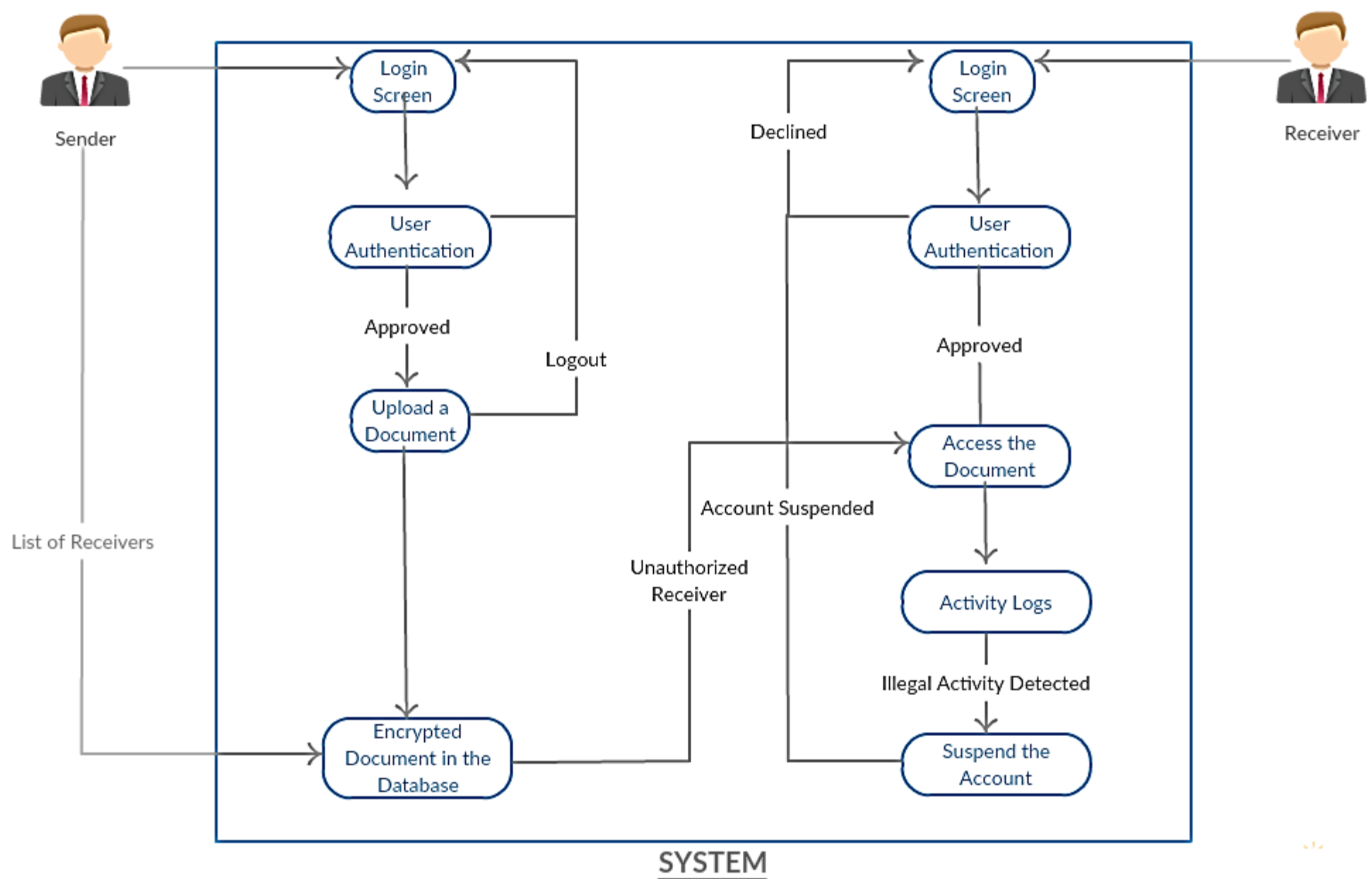
## **IDEA**

- Our idea is to develop a PC Software with following features :-
- The creator of the confidential document will upload it on the software and it will automatically encrypt it.
- This document can then be opened only through our software .
- The software will require login and only those users can access the document who have got a permission from the creator.
- Selecting, Copying, Downloading and Taking Screenshots will be disabled in the Software.
- Only the creator of the file can share it.
- And solution for Problem 2 is that we will access the users webcam.
- The app will close automatically if there is any illegal activity detected through webcam using image processing and an photo taken through web cam will be sent to server for taking strict action again the culprit.
- Moreover, it will also send the logs to server of each user and their activities like when and which document are they reading.
- There will be centralized dashboard which will trace the flow of every document.

## **Technology Stack**

PHP, MySQL DB, Python, AJAX, APACHE server, WAMP/LAMP, JavaScript, OpenCV, scikit-image, PyPDF2, PyQt, PyCrypto

## USE CASE



## DEPENDENCIES

Internet Connection, A computer, Webcam, PyQt, PyPDF2, Linux /Windows 10

# WIREFRAMES

Username

Password

LOG IN

Already have an account?

[CREATE ACCOUNT](#)

{ Login }

My Files

☒ Document 1



☐ Document 2

☐ Document 3

☐ Document 4

☐ Document 5

☐ Document 6



Received Files

☐ Document 1

☐ Document 2

☐ Document 3

☐ Document 4

☐ Document 5

☐ Document 6

LOG OUT

{ User's Vault }

Document 1

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Hello World!

This is Highly Confidential Doc. And it can be accessed only through this Software

(NOTE : Selecting, copying, taking screenshot is disabled)

Log Out

{ Sample Document }

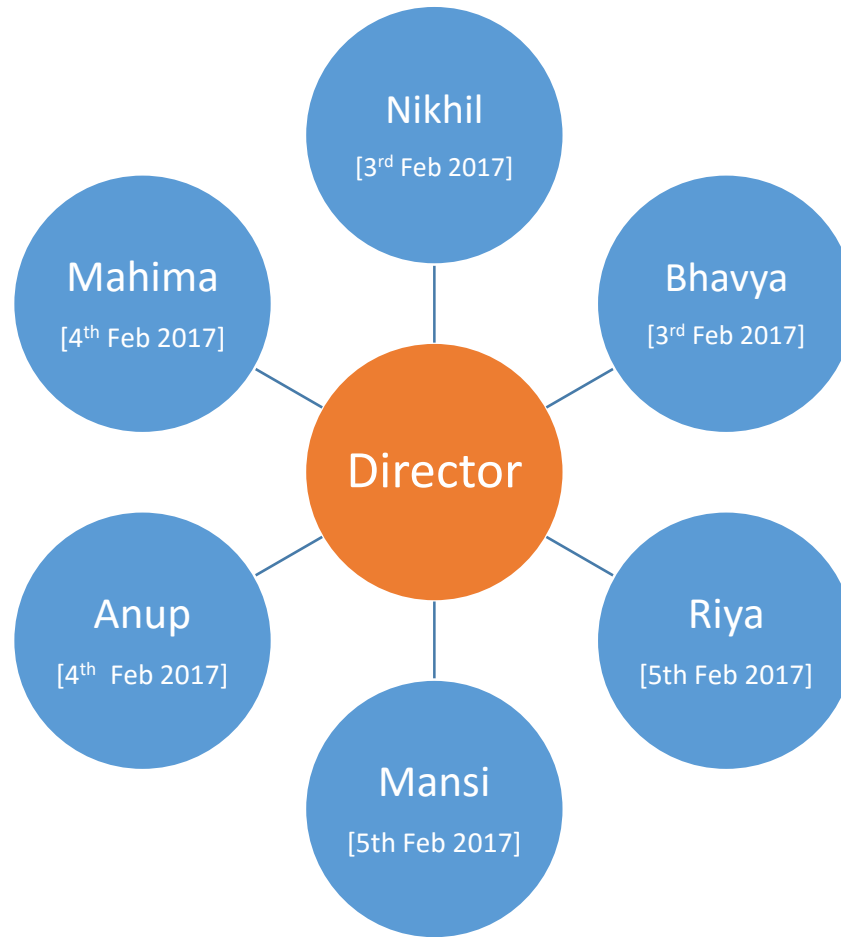
User	Document	Time
MS Kapila	The MARS Mission.pdf	4 <sup>th</sup> Feb 2017 12:25:47
Kunal Joshi	ISRO Inside.pdf	4 <sup>th</sup> Feb 2017 13:46:25

{ Activity Logs }

# Tracking A Document

DOCUMENT 1

If someone's account is compromised then he can check if any undesirable document sharing has occurred or not



# The Webcam is always active and checks for illegal Activities



Coming Soon...