SMART INDIA HACKATHON 2020 || 1st to 3rd August 2020

Government of Sikkim

Parul® University
Vadodara, Gujarat

Idea/Approach Details

Ministry/ Organization name: GOVT OF SIKKIM
Problem Statement :Transparency and Safeguard measures in HR Management
Problem category: Software
Problem Code: SG296
Technology Software :Web application Development
Team Name : Scan B
Team Leader Name : T PALLAVI

College Code : 1-3514007449

OUR TEAM SCAN-B@MLRITM

Organisers MHRD | MIC | AICTE | Persistent | i4C | Platinum Partner aws | BPRD

Parul® University
Vadodara, Gujarat

Only Private University in Gujarat to be Designated as
The Nodal Centre of SIH 2020

SIH

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Problem Description

- An Application to monitor all file movements of every employee,timely information,intimation to the employees through SMS,emails.
- All files should be traceable online so that the employee do not run after the file.
- For this purpose whenever a file enters the system put a sticker (barcode/QR code) on the file and then whenever a file moves out of the warehouse, goes for signature, the sticker should be scanned to update its status. This system should provide insights like estimated turn around time, at each stage. Number of stages for a type of application.
- Additionally it should provide intimation to the employees who are supposed to take action on them on a dashboard. Additionally if they delay taking action provide notification by SMS/email.

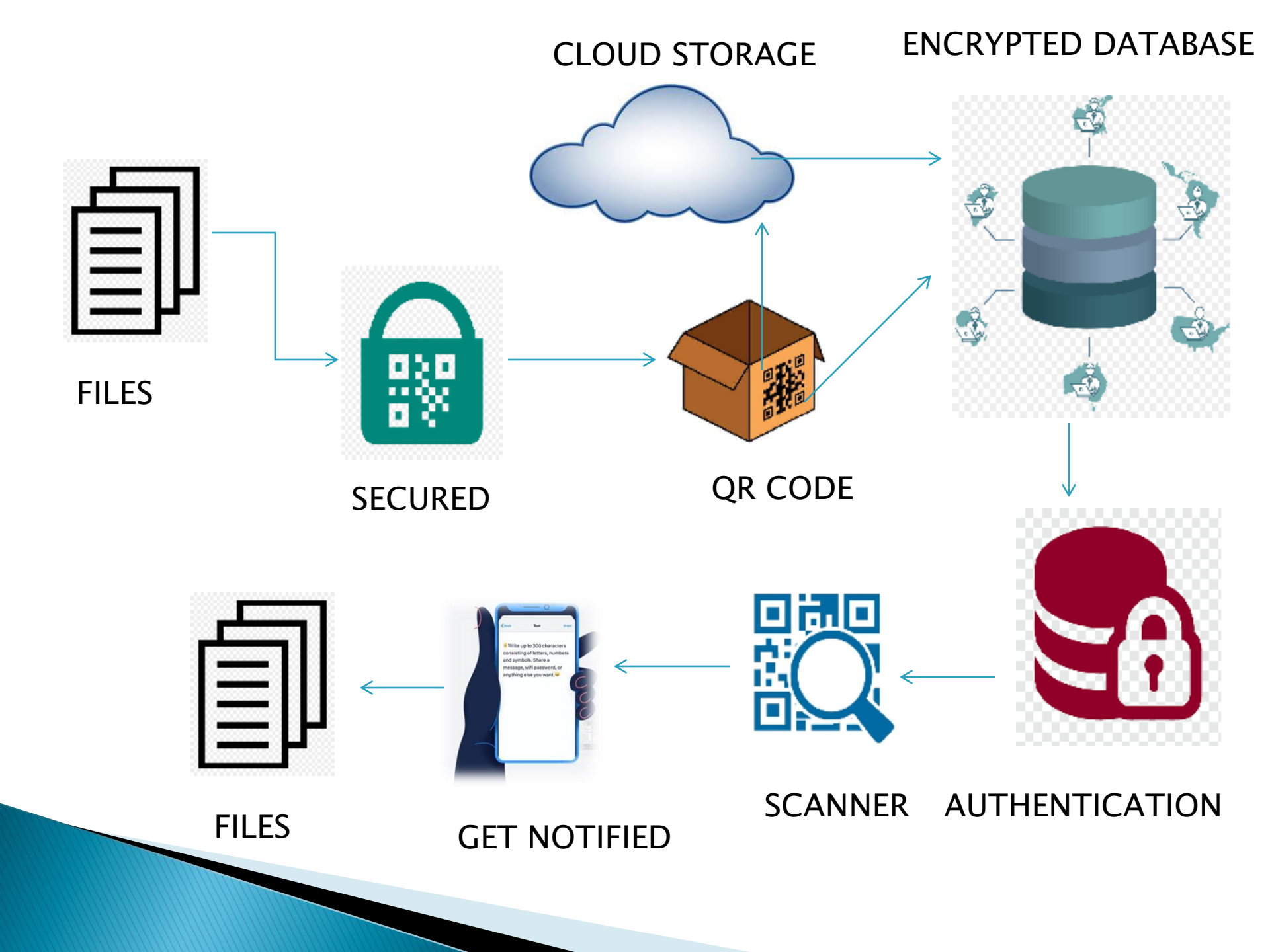
SOLUTION

Instead of carrying the files we can stick a QR Code
On the cover of the file,Which contains all the softcopy
Data of the file .By Scanning we can retrive the data
We can also update status of the file whether it is pending or approved ,this will be shown in the web application .
This application also contain employee data and we can add them whoever is involved in the respective file data
the application also contains the grievance system .

ADVANTAGES

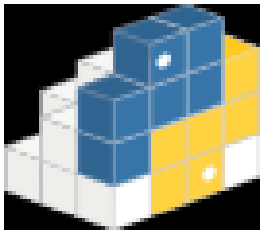
- • It is much cheaper as the hardware is available for low price and the software is available free of cost as it is open source
- • It will not delay or slow the Internet traffic in any way

ARCHITECTURE OF SOLUTION


CLOUD STORAGE
ENCRYPTED DATABASE
FILES
SECURED
QR CODE
FILES
GET NOTIFIED
SCANNER
AUTHENTICATION

TECHNOLOGIES USED

PYTHON3



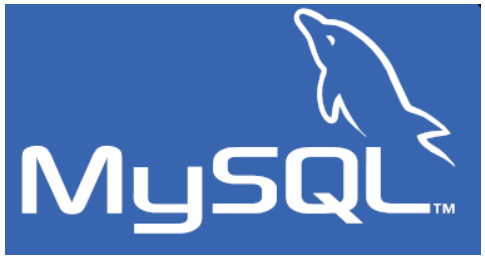
QR TOOLS

PILLOW LIBRARY

TKINTER GUI

TRUE CRYPT

APP INVENTOR



MY SQL