1. **INTRODUCTION**

A debit card and PIN combination is a common example of a single-factor authentication used by traditional ATM systems. This strategy does have some drawbacks, though, as lost, or stolen cards or compromised PINs can result in fraud and unauthorized access. Multiple authentication factors are being incorporated into ATMs to reduce these dangers, and machine learning is essential for making these sophisticated security measures possible. Application-based authentication criteria like: Less than one active user, capture the image, check the profile, Check the person's heart rate before checking the pin's validity. A worldwide problem, automated teller machine (ATM) fraud now affects not only customers but also bank workers. Due to the numerous benefits that ATM users receive, automated teller machines, or ATMs, have grown in popularity in the banking industry. Without entering the branch, ATM users can withdraw cash, deposit cash, credit cash, view balance inquiries, and view playbills. The overall goal is to integrate a camera as hardware inside ATM machines to verify the correct user and potential threat to the public. Additionally, the quantity of users that actively utilize the camera to take pictures, identify faces in them, and gauge human heart rates before confirming the OTP validation. Voice-based detection plays a significant role in reinforcing security measures during ATM transactions in addition to improving user convenience. The integrity of ATM systems is seriously threatened by fraudulent actions, such as the introduction of fake money or tries to trick the cash deposit process. ATMs can recognize and report suspicious behaviors by using voice recognition technology, verifying the veracity of the currency being placed or distributed. This extra security measure protects ATM users' financial transactions in addition to the interests of banking institutions. The automated teller machine is a self-service device that disburses cash and manages transactions including mini-statements, bill payments, and balance inquiries. We have the option to transfer money, check our balance, and withdraw cash. By placing ATMs in various locations across the nation, different banks offer their ATM services. Regardless of whether you have an account with the same bank, we can withdraw money from any of these machines. The banking sector has recently experienced tremendous technological breakthroughs, which have fundamentally changed how we engage with numerous systems and gadgets. The Automated Teller Machine (ATM) is one such technical advancement that has completely changed how banking services are provided. Our everyday lives have grown inextricably linked to the convenience that ATMs provide for accessing banking services and making cash withdrawals. As voice recognition and machine learning technologies advance quickly, there is rising interest in creating voice-based control and detection systems to improve the security and effectiveness of ATM transactions.

* 1. **INTRODUCTION TO THE PROJECT**
     1. **STATEMENT OF THE PROBLEM**

At the current we have the physical and the technological threat and fraud happing across the ATM Machine which result in insecure transaction at India. At the Security layer we have only the physical and the few technical background check which is not enable to the use to perform the ATM based operation. Security Enhancement is the primary objective of integrating multiple authentications in ATMs using machine learning to enhance security. Fraud Prevention is the scope of the problem includes addressing the increasing instances of ATM related fraud. User Convenience security is paramount, the scope also includes maintaining a balance between security measures and user convenience.

**The challenges within the scope of the problem include –**

* ATM card Skimming and Software Attack.
* ATM card Trapping Attack.
* Transaction Reversals Attack.
* Social Engineering and Phishing Attack.
* Operational Fraud.
* Malware Attack.
* Man-in-the-Middle Attack.
* ATM Jackpotting Attack.

**Intent to address the Problem –**

The intent of developing the platform is to provide Full Secure and multiple authentications to perform the ATM transaction. The pin validation at current is treated as a physical verification which is exposed to steal or copied from outsider. Strengthening Security is the primary intent is to enhance the security of ATM transactions by implementing multiple authentication methods. Mitigate Fraud Risks is another intent is to address the increasing instances of ATM related fraud. Enhance User Experience is prioritizing security, the intent is also to ensure a positive user experience for ATM users. Adaptability to Emerging Threats is machine learning's adaptability. Regulatory Compliance is ensuring compliance with regulatory standards.

* + 1. **BRIEF DESCRIPTION OF THE PROJECT**

The application is oriented for implementing the security of multiple layers to avoid unauthorized access authorization. Biometrics is the analysis of unique biological and physiological characteristics with the aim of confirming a person's identity.

**It is completions of three layers they are –**

* Android Verification.
* Biometric Verification.
* Passcode Verification.

The application makes use of integrated camera for biometric verification, additionally it make use of the heart rate of authorized person for giving access. The application contains a two-part desktop application and android application connected to the common server which stores the passcode generated from android and validate the passcode on the desktop application. Therefore ,the purpose of the project by the fusion of Android verification, Biometric methods and passcode verification are being securely given access to the private data by making use of the three layers using the real-time technology.

**MODULES**

**USER**

* Create an account in android.
* Login to desktop application.
* Scan the face.
* Heart-rate verification.
* Login to android.
* Generated the passcode in the android.
* Verification of passcode in the desktop.

**ADMIN**

**Login.**

* Create a profile.
* View the profile.
  + 1. **SOFTWARE AND HARDWARE SPECIFICATION**

**Software Requirements –**

* Operating System : Windows XP 7, 8, 10, 11, Linux.
* Database System : Microsoft Excel, Google Sheets, Firebase Console.
* Integrated Development Environment (IDE) : Spyder, Anaconda, PyCharm, Postman
* Front-End Technologies : Tkinter, PYQT.
* Back-End Technologies : Flask-Python , Rest API.

**Hardware Requirements –**

* Processor : Intel Core i3, i5, i7 or AMD Ryzen 5, Ryzen 7.
* RAM : 4 GB, 8 GB, 16 GB.
* Storage : Hard Disk Driver[ HDD ], Solid State Drive[ SSD ] with at least 512 GB.
* Network : Stable Internet Connection for Accessing Online Resources, Rest APIs.
  1. **FUNCTIONAL AND NON-FUNCTIONAL REQUIREMENT**

**Functional Requirements** specify the particular characteristics and functions that a system must have to achieve its intended objectives. Here are some functional needs to take into the account while creating various authentication methods in an ATM system utilizing machine learning –

**Multi Modal Authentication:** The system must allow a variety of authentication techniques, including PassCode Authentication, Face Scanning (Face Capturing), and Heart rate (BMR Pulse Detection), PIN input identification.

**User Enrollment:** The authentication system should allow users to sign up by supplying the information required for each authentication method they select.

**Authentication Process:** By asking the user to place their finger on the fingerprint sensor, look into the camera for face recognition, or talk into the microphone for voice recognition, the system should prompt the user through the process of selecting an identification method.

**Real-time Processing:** Real-time processing of authentication requests by the system should result in prompt user feedback.

**Authentication Decision:** Based on the machine learning models and algorithms, the system should assess if the user's authentication attempt was successful or not.

**Fallback Mechanism:** The system should give the user access to a backup authentication mechanism in the event that one fails.

**Transaction Authorization:** If the user's account and authorization limitations are legitimate, the system should carry out the requested transaction (such as a cash withdrawal) after successful authentication.

**User Management:** Administrators should be able to manage user accounts, enable/disable authentication techniques, and carry out user maintenance duties using the system.

**Machine Learning Model Training:** To increase accuracy and adjust to shifting user behavior, the system should retrain and update the machine learning models on a regular basis using a representative dataset.

**Adaptive Learning:** To increase accuracy and security, the system should learn from user interactions and modify its authentication models over time.

**Error Handling:** In the event that the authentication process fails or is incorrect, the system should give users clear error messages and instructions.

**Data Storage and Encryption:** For the sake of user privacy and security, the system should securely store and encrypt biometric templates and authentication data.

**Audit Trails:** For auditing and troubleshooting purposes, the system should keep track of all authentication events, including successful and unsuccessful attempts.

**Compliance:** The system needs to adhere to all applicable laws and specifications for the use and authentication of biometric data.

**Integration:** The hardware and software elements of the ATM should easily connect with the authentication system.

**Testing and Validation:** To guarantee the correctness, dependability, and security of the authentication mechanisms, the system should go through a thorough testing and validation process.

**Non-Functional Requirement** is Aspects of a system that define how it functions rather than what it does are known as non-functional requirements. There are a few non-functional considerations to take into the account while developing several authentication mechanisms in an ATM system utilizing machine learning –

**Performance**

**Response Time:** To prevent user delays and provide a smooth experience, the system should respond quickly throughout the authentication process.

**Throughput:** The system should be able to process several simultaneous authentication requests without noticeably suffering from performance issues.

**Scalability:** The system has to be scalable in order to support expanding user bases and authentication options.

**Accuracy**

**Authentication Accuracy:** The machine learning models used for authentication should discriminate between authorized users and unauthorized access attempts with a high level of accuracy.

**False Positive Rate:** To prevent genuine users from being denied access, the system should reduce the number of false positives.

**Security**

**Data Security and Privacy:** The system should protect sensitive data from unauthorized access by ensuring the privacy and security of user authentication data.

**Model Security:** The machine learning models and algorithms used for authentication should be resistant to adversarial assaults, such as tries to trick the system with fake or altered data.

**Model Explain ability:** To make it simpler to comprehend and resolve possible problems, machine learning models should be built to give justifications for their choices.

**Reliability**

**Availability:** The system should be extremely available to reduce downtime and guarantee that users may log in at any time.

**Fault Tolerance:** The system must be able to recover gracefully from errors so that authentication procedures may go on even if some parts stop working.

**Usability**

**User Experience:** Regardless of the authentication technique selected, the procedure should be simple and intuitive for the user.

**Accessibility:** The system must allow for a wide range of users, including those with impairments, and, if necessary, offer substitute authentication procedures.

**Integration**

**Compatibility:** The ATM hardware, software, and network architecture should operate together smoothly with the authentication system.

**Interoperability:** If several authentication techniques (such as a PIN, a fingerprint, or face recognition) are utilized, they should cooperate and function effectively.

**Maintenance and Management**

**Ease of Maintenance:** The system should be easy to maintain, update, and improve to meet modifications to authentication procedures or security needs.

**Auditability:** For compliance and auditing purposes, the system should keep logs and recordings of authentication occurrences.

**Regulatory and Compliance**

**Legal and Regulatory Compliance:** The system must abide by all applicable laws and rules pertaining to data protection and privacy, particularly if sensitive and personal data is being used.

* 1. **COMPANY PROFILE**



About the Department –

K-AKA Technology Services provided an internship in the department of software development, and I have undergone the internship as Learning and designing the software. The objective was to derive multiple logic for the typical real-time challenges faced every day by a Software Engineer. KTS is a fast and dynamic software company founded in 2020 in the Silicon Valley of India at Bangalore with the vision of providing the best services, Training to clients and students. It is a certified software company by the government of India. **(Reg.No : KR-03-0010654),** Our clients are remarkably diverse: large and small, private, and public, for-profit, and nonprofit. We help them grow, sustain, and transform. Our one of the technical teams from multiple MNC companies bind together to help the students to learn technical concepts at the best level. K-AKA Technology Services an ISO 9001 : 2015 Certified Company (Accredited by International Accreditation Services : IAS). The company is highly specialized in the design and development of the website, software application development, mobile application development, E-Commerce Solution, and more.

Vision – To become the world’s leading Innovative training provider, IT service provider, providing Software Development solutions across the globe.

Mission – Design, Deliver Affordable and Quality training by identifying and Developing World Class Learning Platforms and ensure the best quality product and profitable growth through customer service, innovation, and commitment.

Software Development Department **–**

The software development Process organizes practical procedures and approaches in application development. K-AKA Technology Service wants to streamline their internal departments and functions, operations, sale and project management, etc. desktop application platform to the web application platform and want to gain more client for better services their current clients offering convenient services and solutions online to build a new web application to offer innovative services or solutions to online user and business.

Duties

**Software Developers typically do the following –**

* Explore fundamental issues in computing and develop theories and models to address those issues.
* Help scientists and engineers solve complex computing problems.
* Invent new computing languages, tools, and methods to improve how people work with computers.
* Develop and improve the software systems that form the basis of the modern computing experience.
* Design experiments to test the operation of these software systems.
* Analyse the results of their experiments.
* Publish their findings in academic journals.

Services

**K-AKA Technology Service offers the services in the following areas –**

* SaaS (Software as a Service).
* Training and Development.
* Software Development.

**Software Development –**

**We mainly focus on the following areas of Software Development –**

* Enterprise Application Services.
* Web Designing and Development.
* Mobile Application Development.

1. **LITERATURE SURVEY**

A literature review is the text of an academic publication that summarizes the most recent information on a subject, including important discoveries as well as theoretical and methodological advancements.

**Title: A Review Paper on ATM Security**

**Authors: Gitanjali Mehta**

An automated device known as an automated teller machine (ATM) is a mechanical raconteur that assists the media in broadcasts in which a financial institution gives customers access to financial options in a public area without the presence of a human assistant or bank employee. By replacing the validation and token-based validation of the secret term, the client is identified in ATMs by inserting a plastic biometrics dependent confirmation that offers various advantageous conditions in other configuration schemes. The development of automated teller machines (ATMs), online commerce, electronic banking, and authorization all heavily rely on biometrics. The growth of electronic exchange has greatly increased. There is a lot of notable engagement for quick and accurate client identifying facts and proof. The most effective method of obtaining financial aid from any location at any time is through the Robotized Raconteur Machine. It enables the customer to carry out exchanges and withdraw money using a device for electronic media transmission. A review showed that there is insufficient security while withdrawing cash from ATMs. There were no valid confirmation methods in place for protection at the time of ATM exchanges. The ATM safety methodology described in this study was enhanced utilizing a biometric authentication technique, such as facial recognition. One of the basic ideas behind biometrics is to prevent unauthorized access, therefore the idea that nobody can use the ATM means that the user must be present.

**Title: Voice recognition-based ATM security for the visually disabled**

**Authors: Ericson D. Dimaunahan , Alejandro H. Ballado, Febus Reidj G. Cruz, Jennifer C. Dela Cruz**

Users who are visually impaired can benefit from a biometric-based automated teller machine that uses voice and fingerprint identification for two-tier security, allowing them to operate the device using just their biometric features. Before conducting any financial transactions, an automated teller machine (ATM) needs a user to successfully complete an identification check using their PIN. The existing technique for controlling access to ATMs relies on cards and pins, which raises concerns about card skimming and illicit access to accounts. It is extremely difficult to prevent someone from obtaining and using another person's card. Regular smartcards can also be accurately lost, copied, stolen, or fabricated. The accessibility of ATMs to those with disabilities is another issue. These issues can be resolved by employing speech recognition in addition to fingerprint recognition for identification, as mentioned in this work and in a prior study of the researchers. An individual's four fingerprint sample patterns are totally distinct and unrelated to one another. Pre-processing, feature extraction, and minute detail matching are steps in the fingerprint identification process. The user's fingerprint is matched by comparing it to the fingerprint database already in place, which contains photos that were taken at the time a bank account was opened. Once the user's fingerprint has successfully completed the system's authentication process, the user is now able to conduct more transactions by speaking through a microphone while utilizing voice-based instructions. This strategy offers accessibility to those with eye and visual difficulties as well as security to some segments of the public. The system recognizes users using their biometrics.

**Title: Short Research on Voice Control System Based on Artificial Intelligence Assistant**

**Authors: Tae-Kook Kim**

This study suggests an artificial intelligence (AI) assistant-based voice control system. The open API artificial intelligence representation service Google Assistant and the conditional auto-run system IFTTT (IF This, Then That) were used to develop the AI assistant system. By utilizing a Raspberry Pi, a speech recognition module, and free software, the system was created affordably. The suggested technology is anticipated to be used with a number of speech recognition-based control systems.

**Title: Automated Teller Machine: Usage and Issues - a conceptual study**

**Authors: Dr. (Mrs.) S.Geetha, K. Dhivya Bharathi**

The automated teller machine has assimilated into our culture. ATM effectively and affordably reaches a wide client base. Currently, the majority of banks have networking systems for their ATM-like e-banking services. Customer services have developed as a result of a network connecting ATMs from various banks. The most popular ATM services, as well as consumer complaints about ATM services, are highlighted in the publication. Bankers should be aware that the services provided by ATMs alone do not satisfy their consumers, and they should never lose sight of the ATMs' original intent. The researcher came to the firm conclusion that improving human-to-human relationships is the only method to transform higher service quality into service quality.

1. **SYSTEM ANALYSIS**
   1. **EXISTING SYSTEM**

At the moment, neither a security system nor a checkpoint exist at any privately stored government or non-government label data. Moreover, the majority of government agencies. Use physical verification to link news or data from the meeting by linking the person who attended. Authorized access is the major focus of the three levels that make up the present stage. User friendliness and efficiency are the issues that are present in all current models. The current approach was not very secure and virtually allowed for simultaneous tracking of all Three-Layer Security.

* 1. **LIMITATIONS OF EXISTING SYSTEM**

It also has certain limitations and challenges that need to be considered Data Privacy and Security Concerns –

* Adversarial Attacks.
* Bias and Fairness.
* Limited Generalization.
* Operational Complexity.
* False Positives / Negatives.
* Dependency on Data Quality.
* Resource Requirements.
* User Acceptance and Usability.
* Regulatory and Legal Challenges.
* System Reliability and Availability.
  1. **PROPOSED SYSTEM**

The key topics of the proposed application are biometrics and machine verification. an increase in online theft and other forms of cybercrime. Face detection is performed at layer one of the application's three-layer verification procedure, and after that, the user enters a biometric verification process. Face lock will be used to record the person's heart rate, and when the user has completed the last level of verification, the forehead blood vessels will be recorded. In order to pass the third tier, the user controls passcode must be validated. Tracking all three layers of protection at once is almost difficult. These systems are effective and very secure.

* 1. **ADVANTAGES AND DISADVANTAGES OF PROPOSED SYSTEM**

**Advantage of Proposed System Disadvantage of Proposed System**

|  |  |
| --- | --- |
| Improved Security | Complexity and Cost |
| Enhanced Fraud Detection | Data Privacy and Security Risks |
| Adaptive Authentication | Adversarial Attacks |
| Reduced False Positives | Bias and Fairness Concerns |
| User Convenience | False Positives / Negatives |
| Real-time Response | Dependency on Data Quality |
| Scalability | Usability and Accessibility Issues |
| Continuous Monitoring | Regulatory and Legal Challenges |
| Personalized Security | System Downtime and Failures |
| Automated Updates and Improvements | Initial Training and Tuning |
| Reduced Dependency on Static Information | Lack of Transparency |
| Integration with Existing Systems | Limited Generalization |
| Compliance and Reporting | User Acceptance and Trust |
| Futureproofing | Integration Challenges |

* 1. **FEASIBILITY STUDY**

The project's feasibility study is used to evaluate the project's intricate structure and estimate costs. The feasibility study of the suggested system should be used during system analysis. This may be done to demonstrate that the planned system will not burden the business. Understanding the system's most important needs is essential for the feasibility study. There are three main factors the feasibility analysis took into the accounts.

* + 1. **TECHNICAL FEASIBILITY**

This research is being conducted to evaluate the system's technical needs, or technical feasibility. There was a strong demand for all of the available resources, which might result in high expectations being imposed on the client or high demands being placed on the technical resources. The system has to be implemented with little to no change.

* + 1. **ECONOMICAL FEASIBILITY**

This research is being conducted to determine the system's potential financial costs. The corporation is limited in how much money it can invest in the system's research and development. Due to the fact that most of the technologies were freely accessible, the produced system is also within the budget.

* + 1. **OPERATIONAL FEASIBILITY**

Operational feasibility is a metric used to assess how successfully a proposed system addresses the issue, seizes opportunities found during scope definition, and complies with requirements found during the requirements analysis stage of system development. In terms of development timeline, delivery date, corporate culture, and current business procedures, the operational feasibility study examines how well the proposed development project fits into the existing company environment and aim.

1. **SYSTEM DESIGN AND DEVELOPMENT**

**SYSTEM DESIGN DEVELOPMENT**

|  |  |
| --- | --- |
| Authentication Factors | Requirements Gathering |
| * Biometric Authentication | System Architecture and Components |
| * Behavioral Authentication | Data Collection and Preprocessing |
| * Transaction Patterns | Machine Learning Model Development |
| Data Collection and Preprocessing | Feature Extraction |
| Machine Learning Model Selection | Model Training and Validation |
| Feature Extraction | Ensemble Model |
| Biometric authentication | Real-Time Authentication |
| Model Training and Validation | User Experience |
| Ensemble Model | Error Handling and Redundancy |
| Real-Time Authentication | Security and Privacy |
| Testing and Evaluation | Testing and Evaluation |
| User Experience | Compliance and Reporting |
| Error Handling and Redundancy | Monitoring and Maintenance |
| Security and Privacy | Deployment |
| Monitoring and Maintenance | Ongoing Improvement |

* 1. **HIGH LEVEL DESIGN (ARCHITECTURAL)**

Detect the no = 1 People

Detect the Heart Rate = Normal

Detect the Photo = Authorized People

Validation the PassCode = Correct

Yes

Yes

Yes

No

No

No

Access = Granted

* Withdraw Money
* View Money

Access = Denied

No

Access = Denied

Access = Denied

Layer – 1 (Biometric Verification)

Layer – 2 (Heart-Rate Verification)

Layer – 3 (PassCode Verification)

Verification – Before Transaction

Fig : Architectural Diagram. (High Level Design)

* 1. **LOW LEVEL DESIGN**

Data Base

Admin

Firebase Console

Layer – 1 (Biometric Verification)

Layer – 2 (Heart-Rate Verification)

Layer – 3 (PassCode Verification)

View Profile

Fig : Low Level Design.

* 1. **ENTITY-RELATIONSHIP DIAGRAM**

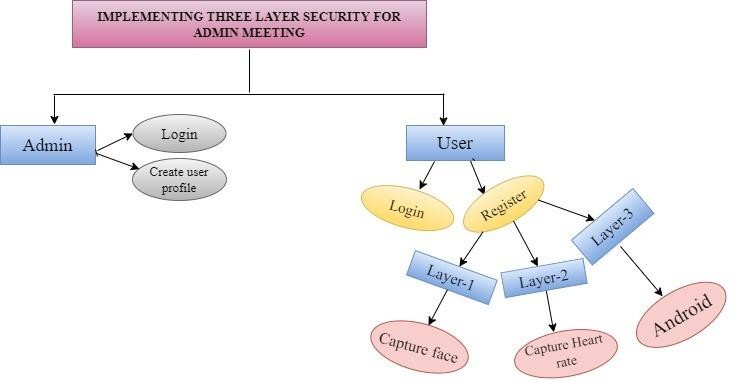
**LEVEL – 1 DFD**

Fig : 1 - Entity-Relationship Diagram.

**LEVEL – 2 DFD**

A diagram of several layers of data

Description automatically generated

Fig : 2 - Entity-Relationship Diagram.

* 1. **DATA FLOW DIAGRAM**

A diagram of a security system

Description automatically generated**LEVEL – 0 DFD**

Fig : Data Flow Diagram.

* 1. A diagram of a person with different colored circles

     Description automatically generated**USE CASE DIAGRAM**

Fig : Use Case Diagram Admin.

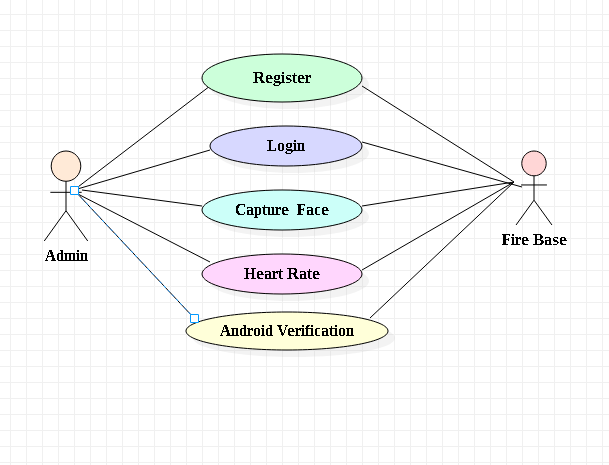


Fig : Use Case Diagram User.

* 1. **SEQUENCE DIAGRAM**

A diagram of a company

Description automatically generated

Fig : Sequence Diagram Admin.

A diagram of a computer

Description automatically generated

Fig : Sequence Diagram User.

* 1. **CLASS DIAGRAM**

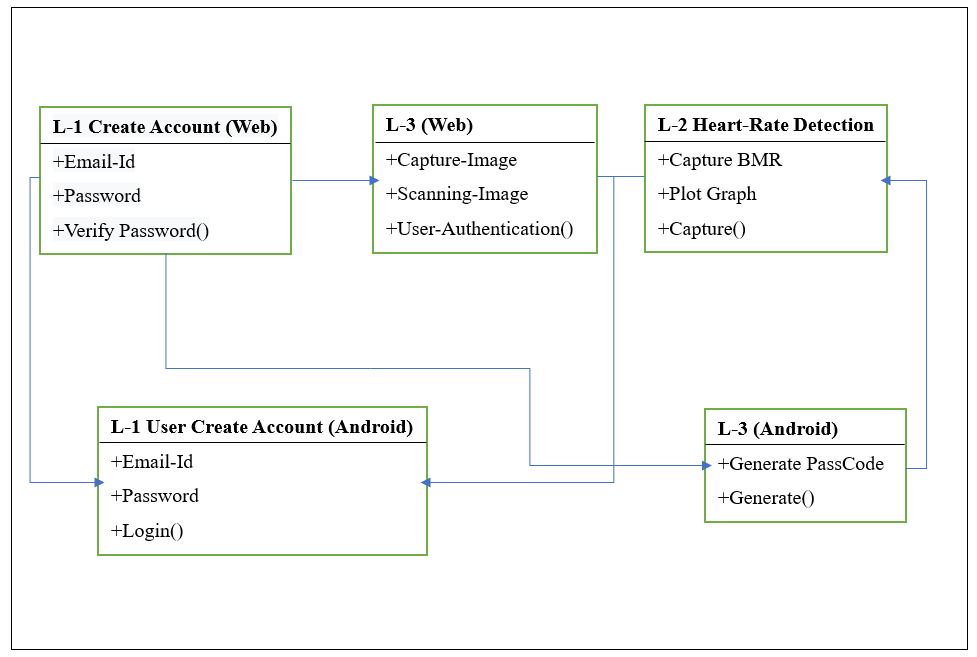


Fig : Class Diagram.

* 1. A diagram of a login process

     Description automatically generated**ACTIVITY DIAGRAM**

Fig : Activity Diagram Admin.

A diagram of a login success

Description automatically generated

Fig : Activity Diagram User.

* 1. **MODULE DESCRIPTION**

**(User Module)**

1. **Create account in android –**

**User verification module:** This module is about to the user create an account in an android application with username and password for user to be given access by making use of layer 3.

1. **Login to desktop application –**

**User verification module:** This module contains a two-part desktop and android application connected to the common server which stores the passcode generated from android and validate the passcode on the desktop application.

1. **Scan the face –**

**User verification module:** This module is about scanning the face of the user making the use of layer-1 that is for android verification.

1. **Heart Rate verification –**

**User verification module:** This module gives the complete information about the user heart pulse detection only for the authorized VIP.

1. **Login to android –**

**User verification module:** This module is about login to android with username and password for generating passcode for user to give access to the meeting.

1. **Generated of passcode in the android –**

**User verification module:** This module is about OTP will be generated to the android application that will be connected to the common server.

1. **Verification of passcode in the desktop –**

**User verification module:** This module is about OTP will be generated to the android application and validate the passcode on the desktop application that will be connected to the common server.

**(Admin Module)**

1. **Admin Login –**

**Admin login module:** Users with administrative privileges can log in by accurately inputting their username and password. If the username and password is invalid, the erroneous error will be displayed. Once Admin has logged in, he will be able to make use of the facilities that are made accessible to all the three layers.

1. **Create the profile –**

**Admin create the profile:** Admin is used in creation of profile for the user by making use of layer-1 that is scanning of the face recognition.

1. **View the profile –**

**Admin view the profile:** After admin scanned the face recognition ,admin can view user profile.

1. **CODING**
   1. **PSEUDO CODE**

#windowmain.py

from tkinter import \*

from PIL import Image,ImageTk

import cv2

from tkinter.filedialog import askopenfilename

from tkinter import messagebox

from utils import \*

from matplotlib import pyplot as plt

import os

import subprocess

from gtts import gTTS

# Read the image from Real-Time resources

# Step-1 Create a camera object

video\_capture\_obj = cv2.VideoCapture(0) # Index of camera connected to the system

global path

def capture():

# Step-2 Capture the image

a, frame = video\_capture\_obj.read()

# Step-3 Enable the image

cv2.imshow('image', frame)

# Destroy the capture window

def kill():

# Destroy the capture image

print("done")

cv2.destroyAllWindows()

w.after(5000, kill)

def save():

# Save the Image

cv2.imwrite(f'imagecaptured.jpg', frame)

print("Saved")

yes\_btn['state'] = DISABLED

No\_btn['state'] = DISABLED

# Activate scan criminal database button

Scan\_btn = Button(w, text = "Start Scanning", command = scan)

Scan\_btn.place(x = 600 , y = 400)

def scan():

# Compare one image with another to know its originality

criminal\_database= ['Original\_image.jpg','Original\_image2.jpg','Original\_image3.jpg','Original\_image4.jpg']

test\_img = cv2.imread('imagecaptured.jpg')

# Define the mandatory attribute

max\_value = 8 # Acceptable value for detecting face

max\_pt = -1 # Indexing the pictures of database

max\_kp = 0

# Create an image object

orb = cv2.ORB\_create()

# Calculate the key point and descriptor

(kp1,des1) = orb.detectAndCompute(test\_img, None)

# Calculate the key point and descriptor database image

for i in range(0,len(criminal\_database)):

criminal\_img = cv2.imread(criminal\_database[i])

(kp2,des2) = orb.detectAndCompute(criminal\_img, None)

# Apply Eucledian Formula

e\_obj = cv2.BFMatcher()

distance = e\_obj.knnMatch(des1, des2, k = 2) # K is called KNeighbour

# Compare the distance

good = []

for (m,n) in distance:

if (m.distance < 0.7\*n.distance):

good.append([m])

# Update the latest value

if (len(good) > max\_value):

max\_value = len(good)

max\_pt = i

max\_kp = kp2

# Print the Result

print(i, " ", criminal\_database[i], " ", len(good))

# print the criminal number

if (max\_value > 9):

print("Criminal Face Detected")

# Create Label to display message

ans = Label(w,text = "Criminal Face Detected")

ans.place(x = 670, y = 400)

else:

messagebox.showinfo("Information", "No Match Found")

capture\_btn['state'] = DISABLED

upload\_btn['state'] = DISABLED

yes\_btn = Button(w, text = "Yes & Confirm", command = save)

yes\_btn.place(x = 550 , y = 300)

No\_btn = Button(w, text = "No, Re-Scan", command = capture)

No\_btn.place(x = 640 , y = 300)

def uploadimage():

# Upload the image from system

# Open the menu bar

path = askopenfilename(initialdir = "", filetypes = (('image file', '\*.jpg'), ('All File','\*.\*')), title = "Select Image")

print(path)

# Set the path into label

if(path== ""):

# Apply Notification

messagebox.showwarning('Warning', 'File Uploading Canceled')

else:

# Apply split property

a = path.split("/")

#print(a)

newpath = a[-1]

messagebox.showinfo('Sucess', 'File Uploaded Sucessfully')

upload\_btn.configure(text = "Re-Upload")

# Save the Image

img = Image.open(path)

img.save('imagecaptured.jpg')

print("Saved")

# Activate scan criminal database button

Scan\_btn = Button(w, text = "Start Scanning")

Scan\_btn.place(x = 600 , y = 400)

# Create a Window

w = Tk()

w.geometry('1250x1250')

w.title("Camera")

capture\_btn = Button(w, text = "Capture Criminal Image", command = capture)

capture\_btn.place(x = 550, y = 150)

upload\_btn = Button(w, command = uploadimage)

upload\_btn.configure(text = "Upload Criminal Image")

upload\_btn.place(x = 550, y = 600)

w.mainloop()

#utils.py

import cv2

import math

import numpy as np

import matplotlib.pyplot as plt

from pprint import pprint

# read image as is

def read\_img(file\_name):

img = cv2.imread(file\_name)

return img

# resize image with fixed aspect ratio

def resize\_img(image, scale):

res = cv2.resize(image, None, fx=scale, fy=scale, interpolation = cv2.INTER\_AREA)

return res

# convert image to grayscale

def img\_to\_gray(image):

img\_gray = cv2.cvtColor(image, cv2.COLOR\_RGB2GRAY)

return img\_gray

# gaussian blurred grayscale

def img\_to\_gaussian\_gray(image):

img\_gray = cv2.GaussianBlur(img\_to\_gray(image), (5, 5), 0)

return img\_gray

# convert image to negative

def img\_to\_neg(image):

img\_neg = 255 - image

return img\_neg

# binarize (threshold)

# retval not used currently

def binary\_thresh(image, threshold):

retval, img\_thresh = cv2.threshold(image, threshold, 255, cv2.THRESH\_BINARY)

return img\_thresh

# NO IDEA HOW THIS WPRKS

def adaptive\_thresh(image):

img\_thresh = cv2.adaptiveThreshold(image, 255, cv2.ADAPTIVE\_THRESH\_GAUSSIAN\_C, cv2.THRESH\_BINARY, 11, 8)

# cv2.adaptiveThreshold(src, maxValue, adaptiveMethod, thresholdType, blockSize, C[, dst]) → dsta

return img\_thresh

# sobel edge operator

def sobel\_edge(image, align):

img\_horiz = cv2.Sobel(image, cv2.CV\_8U, 0, 1)

img\_vert = cv2.Sobel(image, cv2.CV\_8U, 1, 0)

if align == 'h':

return img\_horiz

elif align == 'v':

return img\_vert

else:

print('use h or v')

# sobel edge x + y

def sobel\_edge2(image):

# ksize = size of extended sobel kernel

grad\_x = cv2.Sobel(image, cv2.CV\_16S, 1, 0, ksize=3, borderType = cv2.BORDER\_DEFAULT)

grad\_y = cv2.Sobel(image, cv2.CV\_16S, 0, 1, ksize=3, borderType = cv2.BORDER\_DEFAULT)

abs\_grad\_x = cv2.convertScaleAbs(grad\_x)

abs\_grad\_y = cv2.convertScaleAbs(grad\_y)

dst = cv2.addWeighted(abs\_grad\_x, 0.5, abs\_grad\_y, 0.5, 0)

return dst

# canny edge operator

def canny\_edge(image, block\_size, ksize):

# block\_size => Neighborhood size

# ksize => Aperture parameter for the Sobel operator

# 350, 350 => for smaller 500

# 720, 350 => Devnagari 500, Reserve bank of India

img = cv2.Canny(image, block\_size, ksize)

# dilate to fill up the numbers

#img = cv2.dilate(img, None)

return img

# laplacian edge

def laplacian\_edge(image):

# good for text

img = cv2.Laplacian(image, cv2.CV\_8U)

return img

# detect countours

def find\_contours(image):

(\_, contours, \_) = cv2.findContours(image, cv2.RETR\_LIST, cv2.CHAIN\_APPROX\_SIMPLE)

contours = sorted(contours, key = cv2.contourArea, reverse = True)[:5]

return contours

# median blur

def median\_blur(image):

blurred\_img = cv2.medianBlur(image, 3)

return blurred\_img

# dialte image to close lines

def dilate\_img(image):

img = cv2.dilate(image, np.ones((5,5), np.uint8))

return img

# erode image

def close(image):

img = cv2.Canny(image, 75, 300)

img = cv2.dilate(img, None)

img = cv2.erode(img, None)

return img

def harris\_edge(image):

img\_gray = np.float32(image)

corners = cv2.goodFeaturesToTrack(img\_gray, 4, 0.03, 200, None, None, 2,useHarrisDetector=True, k=0.04)

corners = np.int0(corners)

for corner in corners:

x, y = corner.ravel()

cv2.circle(image, (x, y), 3, 255, -1)

return image

# calculate histogram

def histogram(image):

hist = cv2.calcHist([image], [0], None, [256], [0, 256])

# cv2.calcHist(images, channels, mask, histSize, ranges[, hist[, accumulate]])

plt.plot(hist)

plt.show()

# fast fourier transform

def fourier(image):

f = np.fft.fft2(image)

fshift = np.fft.fftshift(f)

magnitude\_spectrum = 20 \* np.log(np.abs(fshift))

plt.subplot(121), plt.imshow(image, cmap='gray')

plt.title('Input Image'), plt.xticks([]), plt.yticks([])

plt.subplot(122), plt.imshow(magnitude\_spectrum, cmap='gray')

plt.title('FFT'), plt.xticks([]), plt.yticks([])

plt.show()

# calculate scale and fit into display

def display(window\_name, image):

screen\_res = 1440, 900 # MacBook Air

scale\_width = screen\_res[0] / image.shape[1]

scale\_height = screen\_res[1] / image.shape[0]

scale = min(scale\_width, scale\_height)

window\_width = int(image.shape[1] \* scale)

window\_height = int(image.shape[0] \* scale)

# reescale the resolution of the window

cv2.namedWindow(window\_name, cv2.WINDOW\_NORMAL)

cv2.resizeWindow(window\_name, window\_width, window\_height)

# display image

cv2.imshow(window\_name, image)

# wait for any key to quit the program

cv2.waitKey(0)

cv2.destroyAllWindows()

#testing.py

import tkinter

from tkinter import \*

import pyrebase

from PIL import ImageTk, Image

from tkinter import messagebox

# Window Created

w = Tk()

w.geometry('1366x768')

w.title('Login')

w.configure(bg = 'black')

# Login Frame Created

login\_form\_frame = Frame(w, bd = 5, bg = 'black', relief = SUNKEN)

login\_form\_frame.place(x = 650, y = 100, height = 600, width = 630)

def login():

# Step-1 Connect to Server

firebaseConfig = {

'apiKey': "AIzaSyA2en7BLCapNB6pwgIBrqCHpTyu6\_4E9Hw",

'authDomain': "cybercrime-cell.firebaseapp.com",

'databaseURL': "https://cybercrime-cell-default-rtdb.firebaseio.com/",

'projectId': "cybercrime-cell",

'storageBucket': "cybercrime-cell.appspot.com",

'messagingSenderId': "810317709805",

'appId': "1:810317709805:web:0748db279dcef76b7227e4",

'measurementId': "G-G7G3SERMVL"

}

# Step-2 Start the Server

firebase = pyrebase.initialize\_app(firebaseConfig)

# Step-3 Create an Object

auth\_obj = firebase.auth()

# Login to the server

email\_id = username.get()

passcode = password.get()

try:

auth\_obj.current\_user()

except:

print()

#signup.py

import tkinter

from tkinter import \*

import pyrebase

from PIL import ImageTk, Image

from tkinter import messagebox

import string

import random

from subprocess import check\_call

# Window Created

w = Tk()

w.geometry('1366x768')

w.title('Signup')

w.state('zoomed')

w.configure(bg = 'black')

# Signup Frame Created

signup\_form\_frame = Frame(w, bd = 5, bg = 'black', relief = SUNKEN)

signup\_form\_frame.place(x = 400, y = 80, height = 600, width = 630)

def signup():

# Step-1 Connect to Server

firebaseConfig= {

'apiKey': "AIzaSyBPdS3vr00WBM9yMJhfKgQ72radsZuQCHY",

'authDomain': "appdemo-c904d.firebaseapp.com",

'databaseURL':"https://appdemo-c904d-default-rtdb.firebaseio.com/",

'projectId': "appdemo-c904d",

'storageBucket': "appdemo-c904d.appspot.com",

'messagingSenderId': "650609176050",

'appId': "1:650609176050:web:638127333fa381b9750f6b",

'measurementId': "G-KJGEX9Q4WV"

}

# Step-2 Start the Server

firebase = pyrebase.initialize\_app(firebaseConfig)

# Step-3 Create an Object

auth\_obj = firebase.auth()

# Create an account

email\_id = username.get()

# Create Random Password

def generate\_random\_password():

global password

length = 10

characters = list(string.ascii\_letters + string.digits + "!@#$%^&\*()")

# shuffling the characters

random.shuffle(characters)

# picking random characters from the list

rchar = []

for i in range(length):

rchar.append(random.choice(characters))

# shuffling the resultant password

# traverse the temporary password array and append the chars

# to form the password

password = ""

for x in rchar:

password = password + x

# Popup window For Password generated

def popupmsg(msg, title):

def copy(msg):

# Copy the password

command = 'echo ' + msg.strip() + '|clip'

#print("text copied")

copy\_label = tkinter.Label(root, text="Password Copied")

copy\_label.place(x = 100, y = 35)

okay\_btn['state'] = ACTIVE

copy\_btn['state'] = DISABLED

return check\_call(command, shell = True)

root = tkinter.Tk()

root.title(title)

root.geometry("300x100")

root.eval('tk::PlaceWindow . center')

print(msg)

password\_label = tkinter.Label(root, text = "PASSWORD: " + msg)

password\_label.pack(side="top", fill="x", pady=10)

# Enable the ctrl + c option

copy\_btn = Button(root, text = "Copy Password", command = lambda:copy(msg))

copy\_btn.place(x = 130, y = 60)

# Opening the login window

def login():

root.destroy()

w.destroy()

import login

okay\_btn = tkinter.Button(root, text="Okay", command = login)

okay\_btn.place(x = 80, y = 60)

okay\_btn['state'] = DISABLED

root.mainloop()

try:

# Generate random password function call

generate\_random\_password()

auth\_obj.create\_user\_with\_email\_and\_password(email\_id, password)

#print(password)

# popupmsg Function call

popupmsg(password, "Password Generated")

except:

#print("Invalid Credential")

messagebox.showwarning('Alert', 'Account already exists')

def logoframe():

logo = Image.open("logo.png")

img = ImageTk.PhotoImage(logo)

label = tkinter.Label(image=img)

label.image = img

label.place(x = 60, y = 200, height = 400, width = 500)

#logoframe()

# Defining loginform function

def Signupform():

# Declaring variable

global username

username = StringVar()

# Creating layout of login form

Label(signup\_form\_frame, height = 2, width = 300, text ="Create Your Account", bg = "blue",fg = "white", font = ("times new roman", 24, "bold")).pack()

# Username Label

Label(signup\_form\_frame, text = "Enter Your Email", bg = "black", fg = "white", font=("calibri", 14, "bold", "italic")).place(x = 200, y = 190)

# Username textbox

Entry(signup\_form\_frame, textvariable = username, width = 30, font=("calibri", 14)).place(x = 160, y = 250, height = 30)

# Login button

Button(signup\_form\_frame, text = "Create Account", width = 20, height = 1, bg = "blue",command = signup, font = ("calibri", 12, "bold")).place(x = 230, y = 330)

Signupform()

w.mainloop()

#passcode.py

import tkinter

from tkinter import \*

import pyrebase

from PIL import ImageTk, Image

from tkinter import messagebox

import cv2

from tkinter.filedialog import askopenfilename

from utils import \*

from matplotlib import pyplot as plt

import os

import subprocess

from gtts import gTTS

import pyrebase

from matplotlib.backends.backend\_tkagg import FigureCanvasTkAgg#

from PIL import Image,ImageTk

from openpyxl import \*

def verify():

p=passcode.get()

#establishing the connection with firebase

firebaseConfig = {

'apiKey': "AIzaSyBcesiRxeX9GR9aid6-0SgvSXcRsMUO-8o",

'authDomain': "web-development--id-0120-i.firebaseapp.com",

'databaseURL': "https://web-development--id-0120-i.firebaseio.com",

'projectId': "web-development--id-0120-i",

'storageBucket': "web-development--id-0120-i.appspot.com",

'messagingSenderId': "265841411938",

'appId': "1:265841411938:web:ee3b0fe4403973c0030e3b",

'measurementId': "G-DPQ9BCTCVM"

}

def code():

def key\_create(self):

key = Fernet.generate\_key()

return key

def key\_write(self, key, key\_name):

with open(key\_name, 'wb') as mykey:

mykey.write(key)

def key\_load(self, key\_name):

with open(key\_name, 'rb') as mykey:

key = mykey.read()

return key

def file\_encrypt(self, key, original\_file, encrypted\_file):

f = Fernet(key)

with open(original\_file, 'rb') as file:

original = file.read()

encrypted = f.encrypt(original)

with open (encrypted\_file, 'wb') as file:

file.write(encrypted)

def file\_decrypt(self, key, encrypted\_file, decrypted\_file):

f = Fernet(key)

with open(encrypted\_file, 'rb') as file:

encrypted = file.read()

decrypted = f.decrypt(encrypted)

with open(decrypted\_file, 'wb') as file:

file.write(decrypted)

#start the server

firebase=pyrebase.initialize\_app(firebaseConfig)

#retrieve the data from firebase server

db=firebase.database() #creating an object to retrieve data from realtime database

data=db.child('passcode').get()

passs=[]

for eachdata in data:

dbname=eachdata.val()['passcode']

passs.append(dbname)

print(passs)

f=0

for i in passs:

if(str(i)==p):

f=1

if(f==1):

messagebox.showinfo("Sucess",'PassCode Verified')

else:

messagebox.showerror("Sucess",'Wrong Verified')

# Window Created

w = Tk()

w.geometry('1366x768')

w.configure(background='black')

#w.attributes('-fullscreen', False)

#w.resizable(0,0)

w.state('zoomed')

w.title('Dashboard- SECURITY CHECKIN -2')

Label(w, text="Dashboard- SECURITY CHECKIN -3", font=('Arial, 20'),bg='black',fg='white').place(x=400, y=30)

passcode=Entry(w)

passcode.place(x=190, y=200, height=50, width=200)

capture\_btn = Button(w, text = "verify Passcode", bg='green',command=verify)

capture\_btn.place(x = 190, y = 300, height=50, width=200)

#create an image

image=Image.open('pic1.jpg' )

image.thumbnail((1550,1550),Image.ANTIALIAS)

photo=ImageTk.PhotoImage(image)

label=Label(w,image=photo)

label.place(x=600,y=150)

w.mainloop()

#login.py

import tkinter

from tkinter import \*

import pyrebase

from PIL import ImageTk, Image

from tkinter import messagebox

# Window Created

w = Tk()

w.geometry('1366x768')

w.state('zoomed')

w.title('Login')

w.configure(bg = 'black')

# Login Frame Created

login\_form\_frame = Frame(w, bd = 5, bg = 'black', relief = SUNKEN)

login\_form\_frame.place(x = 400, y = 80, height = 600, width = 630)

def login():

# Step-1 Connect to Server

firebaseConfig = {

'apiKey': "AIzaSyBPdS3vr00WBM9yMJhfKgQ72radsZuQCHY",

'authDomain': "appdemo-c904d.firebaseapp.com",

'databaseURL':"https://appdemo-c904d-default-rtdb.firebaseio.com/",

'projectId': "appdemo-c904d",

'storageBucket': "appdemo-c904d.appspot.com",

'messagingSenderId': "650609176050",

'appId': "1:650609176050:web:638127333fa381b9750f6b",

'measurementId': "G-KJGEX9Q4WV"

}

# Step-2 Start the Server

firebase = pyrebase.initialize\_app(firebaseConfig)

# Step-3 Create an Object

auth\_obj = firebase.auth()

# Login to the server

email\_id = username.get()

passcode = password.get()

try:

auth\_obj.sign\_in\_with\_email\_and\_password(email\_id, passcode)

#print("Login Sucessfully")

w.destroy()

import dashboard

def user\_data():

return email\_id

except:

#print("Invalid Credential")

messagebox.showwarning('Invalid', 'Invalid Credentials')

def signup():

w.destroy()

import Signup

def logoframe():

logo = Image.open("logo.png")

img = ImageTk.PhotoImage(logo)

label = tkinter.Label(image=img)

label.image = img

label.place(x = 60, y = 200, height = 400, width = 500)

#logoframe()

# Defining loginform function

def Loginform():

# Declaring variable

global message;

global username

global password

username = StringVar()

password = StringVar()

# Creating layout of login form

Label(login\_form\_frame, height = 2, width = 300, text ="LOGIN", bg="blue",fg="white", font=("times new roman", 24, "bold")).pack()

# Username Label

Label(login\_form\_frame, text = "Username ", font=("times new roman", 12, "bold", "italic")).place(x = 210, y = 150)

# Username textbox

Entry(login\_form\_frame, textvariable = username, width = 25).place(x = 310, y = 150, height = 25)

# Password Label

Label(login\_form\_frame, text = "Password ", font=("times new roman", 12, "bold", "italic")).place(x = 210, y = 200)

# Password textbox

Entry(login\_form\_frame, textvariable = password, show = "\*", width = 25).place(x = 310, y = 200, height = 25)

# Login button

Button(login\_form\_frame, text="LOGIN", width=10, height=1, bg="blue",command=login, font=("calibri", 12, "bold")).place(x = 300, y = 260)

# Create account label

label = Label(login\_form\_frame, text ="New User? Create Account ", bg = "black", fg = "white",font=("calibri",12,"bold")).place(x = 255, y = 330)

# SignUp button

Button(login\_form\_frame, text="SIGNUP", width=10, height=1, bg="blue",command = signup, font=("calibri", 12, "bold")).place(x = 300, y = 360)

def user\_data():

return username.get()

Loginform()

w.mainloop()

#dashboard.py

import tkinter

from tkinter import \*

#import pyrebase

from PIL import ImageTk, Image

from tkinter import messagebox

import cv2

from tkinter.filedialog import askopenfilename

from matplotlib import pyplot as plt

import os

import subprocess

from gtts import gTTS

# Window Created

w = Tk()

w.geometry('1366x768')

w.attributes('-fullscreen', False)

w.resizable(0,0)

w.state('zoomed')

w.title('Dashboard- SECURITY CHECKIN -1')

w.configure(bg = 'black')

Label(w, height = 2, width = 300, text ="DASHBOARD", bg = "blue",fg = "white", font = ("times new roman", 24, "bold")).pack()

login\_time = "10-02-30; "

Label(w, text = "Login Time: " + login\_time, bg = "grey", fg = "white", font=("calibri", 14, "bold", "italic")).place(x = 20, y = 100)

last\_login\_time = "10-02-30"

Label(w, text = "last Login Time: ", bg = "grey", fg = "white", font=("calibri", 14, "bold", "italic")).place(x = 210, y = 100)

user = "testing"

Label(w, text = "User: " + user, bg = "grey", fg = "white", font=("calibri", 14, "bold", "italic")).place(x = 1050, y = 100)

# Read the image from Real-Time resources

# Step-1 Create a camera object

video\_capture\_obj = cv2.VideoCapture(0) # Index of camera connected to the system

global path

def capture():

# Step-2 Capture the image

a, frame = video\_capture\_obj.read()

# Step-3 Enable the image

cv2.imshow('image', frame)

# Destroy the capture window

def kill():

# Destroy the capture image

print("done")

cv2.destroyAllWindows()

w.after(10000, kill)

def save():

# Save the Image

cv2.imwrite(f'imagecaptured.jpg', frame)

print("Saved")

yes\_btn['state'] = DISABLED

No\_btn['state'] = DISABLED

# Activate scan criminal database button

Scan\_btn = Button(w, text = "Start Scanning", command = scan)

Scan\_btn.place(x = 200 , y = 400)

def scan():

# Compare one image with another to know its originalty

criminal\_database = ['img1.jpg','img2.jpg','img3.jpg','img4.jpg']

test\_img = cv2.imread('imagecaptured.jpg')

# Define the mandatory attribute

max\_value = 8 # Acceptable value for detecting face

max\_pt = -1 # Indexing the pictures of database

max\_kp = 0

# Create an image object

orb = cv2.ORB\_create()

# Calculate the key point and descriptor

(kp1,des1) = orb.detectAndCompute(test\_img, None)

# Calculate the key point and descriptor database image

for i in range(0,len(criminal\_database)):

criminal\_img = cv2.imread(criminal\_database[i])

(kp2,des2) = orb.detectAndCompute(criminal\_img, None)

# Apply Eucledian Formula

e\_obj = cv2.BFMatcher()

distance = e\_obj.knnMatch(des1, des2, k = 2) # K is called KNeighbour

# Compare the distance

good = []

for (m,n) in distance:

if (m.distance < 0.7\*n.distance):

good.append([m])

# Update the latest value

if (len(good) > max\_value):

max\_value = len(good)

max\_pt = i

max\_kp = kp2

# Print the Result

print(i, " ", criminal\_database[i], " ", len(good))

# print the criminal number

if (max\_value > 9):

# Create Label to display message

messagebox.showwarning("Alert", "Authenticated")

w.destroy()

import passcode

else:

messagebox.showinfo("Information", "No Match Found")

yes\_btn = Button(w, text = "Yes & Confirm", command = save)

yes\_btn.place(x = 200 , y = 300)

No\_btn = Button(w, text = "No, Re-Scan", command = capture)

No\_btn.place(x = 200 , y = 400)

def uploadimage():

# Upload the image from system

# Open the menu bar

path = askopenfilename(initialdir = "", filetypes = (('image file', '\*.jpg'), ('All File','\*.\*')), title = "Select Image")

print(path)

# Set the path into label

if(path== ""):

# Apply Notification

messagebox.showwarning('Warning', 'File Uploading Canceled')

else:

# Apply split property

a = path.split("/")

#print(a)

newpath = a[-1]

messagebox.showinfo('Sucess', 'File Uploaded Sucessfully')

upload\_btn.configure(text = "Re-Upload")

# Save the Image

img = Image.open(path)

img.save('imagecaptured.jpg')

print("Saved")

def scan():

# Compare one image with another to know its originality

criminal\_database =['img1.jpg','img2.jpg','img3.jpg','img4.jpg']

test\_img = cv2.imread('imagecaptured.jpg')

# Define the mandatory attribute

max\_value = 8 # Acceptable value for detecting face

max\_pt = -1 # Indexing the pictures of database

max\_kp = 0

# Create an image object

orb = cv2.ORB\_create()

# Calculate the key point and descriptor

(kp1,des1) = orb.detectAndCompute(test\_img, None)

# Calculate the key point and descriptor database image

for i in range(0,len(criminal\_database)):

criminal\_img = cv2.imread(criminal\_database[i])

(kp2,des2) = orb.detectAndCompute(criminal\_img, None)

# Apply Eucledian Formula

e\_obj = cv2.BFMatcher()

distance = e\_obj.knnMatch(des1, des2, k = 2) # K is called KNeighbour

# Compare the distance

good = []

for (m,n) in distance:

if (m.distance < 0.7\*n.distance):

good.append([m])

# Update the latest value

if (len(good) > max\_value):

max\_value = len(good)

max\_pt = i

max\_kp = kp2

# Print the Result

print(i, " ", criminal\_database[i], " ", len(good))

# print the criminal number

if (max\_value > 9):

print("Criminal Face Detected")

# Create Label to display message

ans = Label(w,text = "Criminal Face Detected")

ans.place(x = 670, y = 400)

else:

messagebox.showinfo("Information", "No Match Found")

# Activate scan criminal database button

Scan\_btn = Button(w, text = "Start Scanning", command = scan)

Scan\_btn.place(x = 600 , y = 400)

capture\_btn = Button(w, text = "Capture visitor Image", command = capture, bg='green')

capture\_btn.place(x = 200, y = 150, height=100, width=200)

w.mainloop()

#get\_pulse.py

from lib.device import Camera

from lib.processors\_noopenmdao import findFaceGetPulse

from lib.interface import plotXY, imshow, waitKey, destroyWindow

from cv2 import moveWindow

import argparse

import numpy as np

import datetime

#TODO: work on serial port comms, if anyone asks for it

#from serial import serial

import socket

import sys

class getPulseApp(object):

"""

Python application that finds a face in a webcam stream, then isolates the

forehead.

Then the average green-light intensity in the forehead region is gathered

over time, and the detected person's pulse is estimated.

"""

def \_\_init\_\_(self, args):

# Imaging device - must be a connected camera (not an ip camera or mjpeg

# stream)

serial = args.serial

baud = args.baud

self.send\_serial = False

self.send\_udp = False

if serial:

self.send\_serial = True

if not baud:

baud = 9600

else:

baud = int(baud)

self.serial = Serial(port=serial, baudrate=baud)

udp = args.udp

if udp:

self.send\_udp = True

if ":" not in udp:

ip = udp

port = 5005

else:

ip, port = udp.split(":")

port = int(port)

self.udp = (ip, port)

self.sock = socket.socket(socket.AF\_INET, # Internet

socket.SOCK\_DGRAM) # UDP

self.cameras = []

self.selected\_cam = 0

for i in range(3):

camera = Camera(camera=i) # first camera by default

if camera.valid or not len(self.cameras):

self.cameras.append(camera)

else:

break

self.w, self.h = 0, 0

self.pressed = 0

# Containerized analysis of recieved image frames (an openMDAO assembly)

# is defined next.

# This assembly i

self.processor = findFaceGetPulse(bpm\_limits=[50, 160],

data\_spike\_limit=2500.,

face\_detector\_smoothness=10.)

# Init parameters for the cardiac data plot

self.bpm\_plot = False

self.plot\_title = "Data display - raw signal (top) and PSD (bottom)"

# Maps keystrokes to specified methods

#(A GUI window must have focus for these to work)

self.key\_controls = {"s": self.toggle\_search,

"d": self.toggle\_display\_plot,

"c": self.toggle\_cam,

"f": self.write\_csv}

def toggle\_cam(self):

if len(self.cameras) > 1:

self.processor.find\_faces = True

self.bpm\_plot = False

destroyWindow(self.plot\_title)

self.selected\_cam += 1

self.selected\_cam = self.selected\_cam % len(self.cameras)

def write\_csv(self):

"""

Writes current data to a csv file

"""

fn = "Webcam-pulse" + str(datetime.datetime.now())

fn = fn.replace(":", "\_").replace(".", "\_")

data = np.vstack((self.processor.times, self.processor.samples)).T

np.savetxt(fn + ".csv", data, delimiter=',')

print("Writing csv")

def toggle\_search(self):

"""

Toggles a motion lock on the processor's face detection component.

Locking the forehead location in place significantly improves

data quality, once a forehead has been sucessfully isolated.

"""

#state = self.processor.find\_faces.toggle()

state = self.processor.find\_faces\_toggle()

print("face detection lock =", not state)

def toggle\_display\_plot(self):

"""

Toggles the data display.

"""

if self.bpm\_plot:

print("bpm plot disabled")

self.bpm\_plot = False

destroyWindow(self.plot\_title)

else:

print("bpm plot enabled")

if self.processor.find\_faces:

self.toggle\_search()

self.bpm\_plot = True

self.make\_bpm\_plot()

moveWindow(self.plot\_title, self.w, 0)

def make\_bpm\_plot(self):

"""

Creates and/or updates the data display

"""

plotXY([[self.processor.times,

self.processor.samples],

[self.processor.freqs,

self.processor.fft]],

labels=[False, True],

showmax=[False, "bpm"],

label\_ndigits=[0, 0],

showmax\_digits=[0, 1],

skip=[3, 3],

name=self.plot\_title,

bg=self.processor.slices[0])

def key\_handler(self):

"""

Handle keystrokes, as set at the bottom of \_\_init\_\_()

A plotting or camera frame window must have focus for keypresses to be

detected.

"""

self.pressed = waitKey(10) & 255 # wait for keypress for 10 ms

if self.pressed == 27: # exit program on 'esc'

print("Exiting")

for cam in self.cameras:

cam.cam.release()

if self.send\_serial:

self.serial.close()

sys.exit()

for key in self.key\_controls.keys():

if chr(self.pressed) == key:

self.key\_controls[key]()

def main\_loop(self):

"""

Single iteration of the application's main loop.

"""

# Get current image frame from the camera

frame = self.cameras[self.selected\_cam].get\_frame()

self.h, self.w, \_c = frame.shape

# display unaltered frame

# imshow("Original",frame)

# set current image frame to the processor's input

self.processor.frame\_in = frame

# process the image frame to perform all needed analysis

self.processor.run(self.selected\_cam)

# collect the output frame for display

output\_frame = self.processor.frame\_out

# show the processed/annotated output frame

imshow("Processed", output\_frame)

# create and/or update the raw data display if needed

if self.bpm\_plot:

self.make\_bpm\_plot()

if self.send\_serial:

self.serial.write(str(self.processor.bpm) + "\r\n")

if self.send\_udp:

self.sock.sendto(str(self.processor.bpm), self.udp)

# handle any key presses

self.key\_handler()

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

parser = argparse.ArgumentParser(description='Webcam pulse detector.')

parser.add\_argument('--serial', default=None,

help='serial port destination for bpm data')

parser.add\_argument('--baud', default=None,

help='Baud rate for serial transmission')

parser.add\_argument('--udp', default=None,

help='udp address:port destination for bpm data')

args = parser.parse\_args()

App = getPulseApp(args)

while True:

App.main\_loop()

#setup.py

"""

This is a setup.py script generated by py2applet

Usage:

python setup.py py2app

"""

from setuptools import setup

APP = ['get\_pulse.py']

DATA\_FILES = ['cascades/haarcascade\_frontalface\_alt.xml']

OPTIONS = {'argv\_emulation': True}

setup(

app=APP,

data\_files=DATA\_FILES,

options={'py2app': OPTIONS},

setup\_requires=['py2app'],

)

1. **SOFTWARE TESTING (Test Cases)**

SYSTEM IMPLEMENTATION AND TESTING

A diagram of a system development lifecycle

Description automatically generated

**SYSTEM IMPLEMENTATION**

The process of implementing a system entails specifying how the information system should be constructed (physical system design), ensuring that the information system is operational and used, and ensuring that the information system fulfills quality standards (quality assurance). System implementation is a collection of actions taken to test, install, and start using the new or updated Information System as well as to complete the design (if necessary) contained in the authorized systems design document. When seen from the perspective of the entire system, strengthening connections to expansion executives and control exercises that are concerned with identifying the requirement for procedure modification and launching improvement actions are typically required for the improvement of the programming process. On the other side, executives frequently choose programming designs that are inappropriate for nature.

**SYSTEM TESTING**

System testing looks at every element of an application to ensure that it functions as a whole. System testing is often carried out by a QA team after functional or user story testing of individual modules and integration testing of each component have been completed. Errors are intended to be introduced during testing. Testing is the process of striving to make a work product contain every imaginable flaw or weakness. Testing is primarily used to determine whether or not the user requirement is satisfied so that the software system never fails in an unsatisfactory way. System testing guarantees that the integrated computer code as a whole complies with specifications. It evaluates a configuration to validate expected and known outcomes. System testing is based on process flows and descriptions, with a focus on pre-driven process integration points.

**TYPES OF TESTING**

Software for testing comes in a variety of forms depending on the needs and the product being developed. The testing kinds that were used in our scenario are listed below.

**UNIT TESTING**

A software development approach known as unit testing involves checking the functionality of the tiniest testable components, or units, of an application one by one. Planning test cases for unit testing requires ensuring that the core program logic is working properly and that program inputs result in legitimate outputs. We are validating all internal code and decision branches. After the completion of the personal unit but before integration, it is the appliance's individual software units. Unit tests carry out fundamental checks at the component level and examine a chosen operational procedure, application, and/or system configuration. The purpose of unit testing is to ensure that each distinct path of a business process adheres to the documented task, has inputs, and outputs that are correctly stated.

**Test Strategy and Approach**

Field Testing will be performed manually, and functional tests will be written in detail Test objectives.

* All field entries must work properly.
* Pages must be activated from the identified link.
* The entry screen, messages and responses must not be delayed. Features to be tested.
* Verify that the entries are of the correct format.
* No duplicate entries should be allowed.
* All links should take the user to the correct page.

**INTEGRATION TESTING**

The second stage of the software testing process, after unit testing, is known as integration testing. Integration testing is the process of inspecting various parts or units of a software project to reveal flaws and ensure that they function as intended. Integration tests are made to examine integrated software components to determine whether they truly operate as one program. Event-driven testing is more focused on the critical outcome of screens or fields. if successful unit testing is required. Even though the individual components were successful in unit testing, integration tests indicate that the combination of components is accurate and consistent. Integration testing is specifically designed to reveal problems caused by the blending of components.

**WHITE BOX TESTING**

White box testing is a type of application testing that gives the tester entire access to the source code and design documentation of the application being tested. White box testing can find problems that gray and black box testing cannot see because of this extensive visibility. White box testing refers to testing where the software tester has at least a basic understanding of the inner workings, structure, and language of the product.

**BLACK BOX TESTING**

Testing software in a "black box" is doing so without having any knowledge of the inner workings, architecture, or language of the module being tested. Recorder tests, like the majority of other types of tests, must be created from a clear source document, such as a specification or requirements document. Testing involves treating the software being tested like a recorder that is impossible to "see" inside. To assess an application's functionality, security, performance, and other factors, black box testing, a type of testing carried out without knowledge of a system's internals, can be used. An example of an automated black box security test is dynamic code analysis.

**TEST CASES,**

**Android**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **TEST CASE ID** | **TEST DESCRIPTION** | **TEST INPUT** | **EXPECTED RESULT** | **ACTUAL RESULT** | **REMARKS** |
| **1.** | Login Authentication | Valid Username Valid Password | Should be Logged in Successfully | Logged in Successfully | **Pass** |
| **2.** | Incorrect User ID and Password | Valid Username Valid Password | Should be Logged in Successfully | Login Unsuccessful | **Fail** |
| **3.** | Create User Profile | Capture Profile | Captured Profile Should be Successful | Captured Profile is Successful | **Pass** |
| **4.** | View the User Profile | View Profile | Profile Should be Viewed Successfully | Profile Viewed Successfully | **Pass** |

**Web Browser**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **TEST CASE ID** | **TEST DESCRIPTION** | **TEST INPUT** | **EXPECTED RESULT** | **ACTUAL RESULT** | **REMARKS** |
| **1.** | Login Authentication | Valid Username  Valid Password | Should be Logged in Successfully | Logged in Successfully | **Pass** |
| **2.** | Incorrect User ID and Password | Valid Username  Valid Password | Should be Logged in Successfully | Login Unsuccessful | **Fail** |
| **3.** | Click to Layer-01 for Android Verification | Capture Face | Should be Captured in Successfully | Captured Successfully | **Pass** |
| **4.** | Click to Layer-02 for Biometric Verification | Capture Heart Rate | Heart Rate Captured Successfully | Captured Successfully | **Pass** |
| **5.** | Click to Layer-03 for PassCode | Enter PassCode | PassCode Should be Verified Successfully | PassCode Verified Successfully | **Pass** |

1. **CONCLUSION**

In conclusion, the use of machine learning to integrate different authentication systems into ATMs represents a considerable improvement in banking security. Banks can use a multi-layered security strategy that includes biometric authentication, speech recognition, and behavior analysis by utilizing machine learning algorithms. This allows the system to verify the user’s identity and identify suspicious activity more correctly. By reducing the danger of fraud and illegal access, this strategy improves the security of ATM transactions. Physical verification limits data loss and other issues, and the suggested solution is extremely effective and secure for ATM-based operations. Application is ideal for real-time details since it uses a machine learning-based mechanism. Machine learning systems for multiple authentications provide a number of advantages. A potential answer to the changing security concerns facing the banking sector is multiple authentications in ATMs utilizing machine learning. Banks may strengthen ATM security, safeguard consumer transactions, and increase public confidence in the financial system by utilizing the power of machine learning algorithms.

**FUTURE ENCHANCEMENT**

**Enhanced Accessibility :** The technology can be developed to accommodate people with various disabilities, such hearing loss, to further improve accessibility. A more inclusive user experience can be created by including sign language recognition or alternate output techniques like vibration feedback.

**Multilingual Support :** Users would be able to communicate with the system in their choice language if language models and OCR engines could support several languages. This improvement would be made to accommodate a wide range of users and improve usability for those who are more at ease using languages different than the system's default language.

**Advanced Security Measures :** It is essential to implement additional security measures to safeguard user transactions and personal data. The system's security can be improved by using biometric authentication techniques, such as voice recognition or fingerprint scanning, to guarantee secure access to the ATM system.

**Continuous Training and Improvement :** To retain accuracy and adapt to new money designs or variants, deep learning models used for banknote detection must undergo regular upgrades and enhancements. The models will perform better and detect banknotes more accurately with continued training.

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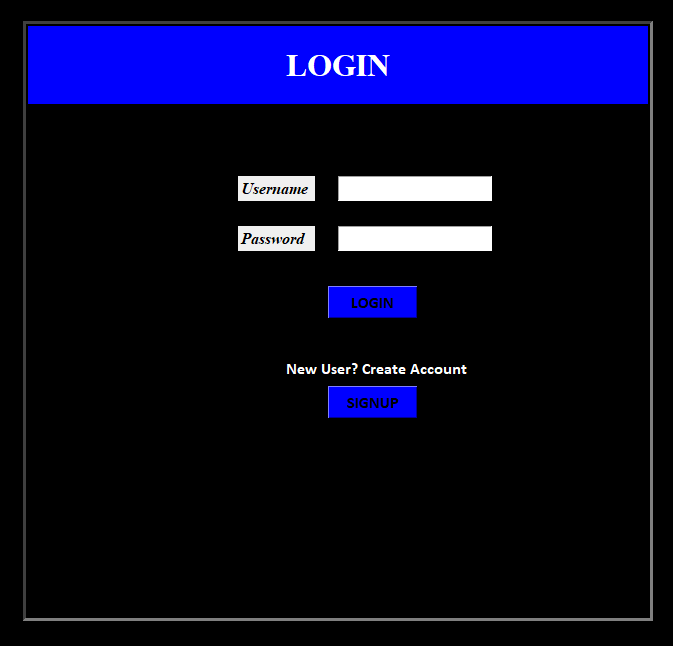
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**SNAP SHOTS**



**Fig : Login Web Form**

A screenshot of a computer screen

Description automatically generated

Fig : Account Create / Web SignUp Form

![A black padlock with a white background

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4R/uRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIzOjA4OjExIDIyOjAwOjMwAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMzOQAAkpIAAgAAAAMzOQAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Fig : Android App Lock

![A screenshot of a login form

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SzuRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIzOjA4OjExIDIyOjAwOjU5AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM1NgAAkpIAAgAAAAM1NgAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMzowODoxMSAyMTo1MjoxNAAyMDIzOjA4OjExIDIxOjUyOjE0AAAAAAYBAwADAAAAAQAGAAABGgAFAAAAAQAAEZQBGwAFAAAAAQAAEZwBKAADAAAAAQACAAACAQAEAAAAAQAAEaQCAgAEAAAAAQAAG0IAAAAAAAAAYAAAAAEAAABgAAAAAf/Y/9sAQwAIBgYHBgUIBwcHCQkICgwUDQwLCwwZEhMPFB0aHx4dGhwcICQuJyAiLCMcHCg3KSwwMTQ0NB8nOT04MjwuMzQy/9sAQwEJCQkMCwwYDQ0YMiEcITIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIy/8AAEQgBAADiAwEhAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A8Zqa0tJ7+8htLWMyTzuI40HVmJwBWYjWi8J6vM86JDHmJxHzIBvbBOFz14Un8PpVO/0a+03VF06eMG5bZtVG3btwBXH50AWPEnhjVPCmpLYarEsczxiRdjbgQfepNd8Jav4btLC61KBY476ISwlXycdcH0OCOKAK9z4f1C10S21eSL/RJzgHnKnnGQR0ODgjI4PcU6Dw9d3GnG9R4QvlmQId24qDjg429fegDJooAKKACigAooAKKANa18Oahd2X2xBCtvt3b3lA4yAeOvf0qrYWBvtSSy86OEsSPMf7owCf6UAR2NlLqF5HawlBJIcAu4UfnVrWNEutEnSK5eFi4ypjbP5ggEfiKAKjWdwloty8bLExG1iMbuo49eVNTWulXd5ZXV5FH/o9rH5kjtwMblXA98sKALc+hCDRhff2hbvOFSSS0VX3oj42tnG05yOAamTwdrLRxsYYkMkYkRHlVWYEZPB9ByfQUWAzNR0260m9ezvIwkyYJAYHg9DxVSgAooAKns7ufT72C8tX8ueBxJG2AcMDkcGgDWTxdq8byPHJAjOVORAnylQQCOOPlJH0qrNr2oT61Dq0jxm6hKGM+Uu0bfu/LjB6d6ALvijxlq3i+/gvNU+zmWBNieVCFGM556k89jxU3iXx1rXiyys7TUzbGO1H7vyoQhPGOT9OwwKLjMqTWr2bRE0mVke2jkWSMlBuXbv43dSP3jHBz7Y5qSLX7uHTvsSpGVCFFclsgHJ6btp69x/IUCMqigYUUCCigAooAKKANuy8UXtjaLbRw2zRBCmHVjnJU569flH603TdfOnQTRGwt5/NZmLOORkDj6f40AVrnVPNu47mC1ht2RNoCKMZ55+oz+lRXGoXF5qAvbkrNJuBIcZUgdselAFjUtdvNUgihnWJUiUKojTbgAk/+zGrMnirUH0qbTVitYrWVChSOPGAXD8c+oFAF678bzXfg6Dw9/ZdnH5QQfbEB81gpyMn8qpT+L9cuoGiubzz8oUDyorOAc5wxGec4PqKBlHU9XvdYeF72QSPDGI1YKASB646mqFAgooA9lorQYUUAFFABRQAUUAFFABRQAUUAFFABRQAUUAFFABRQAUUAFFABRQAUUAFFABRQAUUAFKFZuisfoKBOSW4EEHkEfWkoBNPYKKBhRQAUUAFFABRQAUUAFFABRQAUUAFFABRQAUUAFT2lnPeziGBGdj6DNNK7JnJRi5M6CDQJYQCbSV29WQ1aGnXYGBay/8AfBrpjypHz9b29WXNJMR9MuXGHs5WHvGazrvw7c7TJDbSqRyVKHFTNRaNcLOtRlqnYwSCpIIwR1BpK5z3U7hRQAUUAFFABRQAUUAFFABRQAUUAFFABRQAUUAHU4rt/B1uLbWLVcfMQxY++01cFo2ceLqWlTh3aPSa53xB458O+F7iO21XUBHcSDcsMcbSvt9SqgkD3NQdhp6PrWna/p0d/pd3HdWr9HQ9D3BHUH2PNWbv/jzm/wCubfyoRMtmeM6tbAYnUd8NWXVzVpHNganPRV+mgUVB1hRQAUUAFFABRQAUUAFFABRQAUUAFFABRQBPZIHvIgem7Ndx4Z/5D9t/wL/0E1tD4GeVi3/tVNen5noDMEUsxAUDJJ7V474U+IHg6z13xLqOparbrdXV+RFKykloFVQoBx0zmsT1TX8D674fufH+vx6LqdrJbagsdxFbxEg+Yq4kO3HHY16Nd/8AHnN/1zb+VCFLZnlF2ge1lU/3TXOVrV3PNyx+5JeYUVkemFFABRQAUUAFFABRQAUUAdf4C0ex1S5vHvYBMIVTYrHjnPP6V3X/AAi2h/8AQMt/++aAD/hFtD/6Blv/AN80f8Itof8A0DLf/vmgA/4RbQ/+gZb/APfNH/CLaH/0DLf/AL5oAP8AhFtD/wCgZb/980f8Itof/QMt/wDvmgCnqnhvS4NMuJbWwhjmRNyso5GKwfDP/Iftv+Bf+gmtofAzysWv9qpv0/M7jUP+QZdf9cX/AJGvi7wTPpEXiINrwgex+zzDFwGK79h2cLzndisT1TqfgUc/Fa1x93yZsD/gNfVd3/x5zf8AXNv5UIUtmeb2FsLvUYLdl3K8gDD1Hf8ASu3/AOEW0P8A6Blv/wB81rV3R5uVr3JPzD/hFtD/AOgZb/8AfNH/AAi2h/8AQMt/++ayPTD/AIRbQ/8AoGW//fNH/CLaH/0DLf8A75oAP+EW0P8A6Blv/wB80f8ACLaH/wBAy3/75oAQ+FtCIx/ZkH5V5PrlpFY65eWsAIijlKoCc4FAGfRQAUUAFFAHffDL/Wan9I//AGavQqACigAooAKKAGsoZSrDIIwRXHWGntp3i6KIg+Wd5Q+o2mtIPRo4sVTvOnPs0dkQGUqRkEYINcq3w08EsxZvDOnEk5J8kVmdpd0nwZ4a0K8+2aVotnaXO0r5sUYDYPUZrXu/+POf/rm38qEKXws5jwnpxMjX0i8AFY8/qa66rqO8jlwNPkoq/XUKKg6wooAKztW1aPSIY55o2eJm2kqeQcccd6ALlrMbi1imKhC6htobdjPvXjfin/kZ9R/67GgDIooAKKACigDvvhl/rNT+kf8A7NXoVABRQAUUAFFABVS+sUvI8bmjlX7kiHDL+NNOxM4qUWjj9Qt9csHO66unj7OkrEfzrO/tPUB1vrof9tW/xroioyV0fP1niKUuWUn94qahqcjbUu7tj6CRj/Wug0vStVuSJL68uUhP/LMytlvrzSlyxRrhVXrS1k7HURxpFGsaKFVRgAdqfXOe6lbQKKACigApjwxSOjvGrOmdrEZIz1xQARxRwxrHEioijAVRgCvGfFP/ACM+o/8AXY0AZFFABRQAUUAd98Mv9Zqf0j/9mr0KgAooAKKACigAooAQgEYIzUD2NrIctbxk+6ii4nFS3Q6O2gi/1cSL9BU1AJJKyCigYUUAFFABRQAV4t4p/wCRn1H/AK7GgDIooAKKACigDvvhl/rNT+kf/s1ehUAFFABRQAUwSxtH5iupT+8DxQA4MGUMpBB5BHeloAbvUOE3DcRkLnnFOoAKQMGGVIPbigBaRnVMbmAycDJ6mgBaKACigAooAK8W8U/8jPqP/X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Fig : Android App Login Form

![A screenshot of a login form

Description automatically 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Fig : Android App Create Account Form

![A screenshot of a log out

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SbERXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIzOjA4OjExIDIxOjU4OjUxAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM3MAAAkpIAAgAAAAM3MAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Fig : Android App PassCode Generate Form and Log Out Form

**![A screenshot of a log out

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SgmRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIzOjA4OjExIDIxOjU5OjQxAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM0NwAAkpIAAgAAAAM0NwAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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A black and blue screen with white text

Description automatically generated

**![A screenshot of a login form

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**![A screenshot of a login screen

Description automatically 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**![A screenshot of a password

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YSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A/MeiiisiAooooAKK7/4O/A3xb8ctavrHwxaW7x6fbtd6hqOo3K2lnp8P/PSaZ9qrXM+IvC83h7xVfeH0u7PWrq0umtFudKuVuba4YNt3QyL95WoAxqK9c+MH7LPxF+AvhPQfEHjnRk0KPXJpbe1tHuVa5Vo1Rm3qn3ad8TP2U/iP8HfhtpXjXxloq6HpWpXq6fbQT3CtdMzRvL80a/d6UAeQ0UV7l+y5+yD42/aw1fVrTwrJp1hZaWqNe6hqjMIUMgJVAFViTgHj2oA8Nor1L9or9nXxZ+zH4+/4RTxclsbmW3F3a3dmS8F1CWddwB5Bzng9MV5bQAUV9afBf/gmf8Vvjd8Lbbx1pdxomm2l9EZdPsdTmkE14mTySBheh618saxo174f1i90rUIHtNQsriS3ubaT70UiNtZWoGUqKciNI9ey/Gf9nFvh34N8N+NvC+vp438A61HsXW7e0a2ayvQu6SyuYN7eVItAjxiiivUvCPwOj1rwppniPxD400TwTp2rSyRaampQ3tzPf+W+1mjjtYJW2q+KAPLaK9p8Tfsy3Wm+BdU8XaD4q0vxZpekllvktLG/tJYtrIrEfa7aJZNn2iLcq14tQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRXTeF/hzrfjTRda1TRbM3yaT9m+0Qxv+/2zy+VGyr/ABL5rxLQBzNFe7J+xb8To4/Fn9oaR/Zv9g2s1yrz/d1Bo2+ZbZv4q8/+Inwxm+HumeDtQ/tex1my8TaV/a1q9iki+UouZbZo381V+ZXt6rUDiaK9w/Zv+C/h34qpI/iS71SEXHiTRfC1j/ZTRr5VxqP2nbcTb0bdGn2WmfCT4Q+GfH/w68aXt9d6hB4l0ewvNRtvLuLaGBlt4PN2xwHdPct/f2bPIWgDxKivb/2iPhD4W+HWjeG9R8H3VxrGn3cs9jd6g+ox3KC8ijt2lg8sQRNAy+d3rj/hF8DfFvxs1K/tvDFpB9l0uFbnUdU1C7jtbGwh/wCek80jBVoA4CivouP9kPTrtls7L49fCa61b/ny/tuaND/23eBY68j+KXwn8VfBnxZJ4c8YaW2laosa3KpvWRZYX+7JHIm5WjapA5Ciiu6+B3wl1H46fFTQPAek3ttp2oaxK0UVxebzCm2N5PmC9aAOFoq5relSaHrF9p8rLI9pcSW7PH912RttU6ACivR/hz8D9V+Jfw/+IniywvrO0svBVlBe3cMwfzbhZZNirH+VZHwg+GN98ZPiZ4b8EabcwWl7rd4tpFc3QYxxZ/ibbQBx9Ffclv8Asd/AH4h6FofhP4dfGyPUPjBeSCA219539mTyBX81YsWYYD8e1fInwx+GfiD4v+ONL8JeF7L+0tb1ORkgh3qq8LuZmZvuqqVWoHLUV7j4s/Y88e+H73wrBpsmh+NbXxRetpmmal4T1WO9s3vB96Fpf4WWp/GX7F/xC8I3fh6G0l0DxZFrmsjw/DdeGtVivbeHUv8An1mP/LKSgDweivW/iF+y7448A3iLHBYeKNPbS7nWf7V8M3P26z+y28nlXLM6/wDPJ/kavJKkAooooAKKKKACiiigAooooA+3v2Ndb1C1/ZU+Mll4R8E6Z8RfGTatpU0vhvUdNbURLZ54k+zD/XbHz+dY37Unh7xD8N/E/wASNM+HGhf2D4Tv9E0K98eaXpUCS2ui3zlZUg3fehxMM/jXyVoPiHVPDN+uoaPqd5pN6i7FubG5aCX/AL6Wk/t/UtuoJ/aF0U1Bla8Tzm/0hg2795/eqgPoz4pXEl1+wh8HJpZWkd/E+vOz/jBRqd5Nff8ABOK1uLidp5m+K8+6R/8AsER183Pqt5PYQWT3k8llCzPFbSO3lIx+8yrR/a15/Zv9n/bJ/wCzvO+0fY97eV5m3bu2/wB6jUZVr9tP+CVPw11PwN+zw2qaromlabLrk4uba7sm3XF5bgEK85/vAk49q/Euu9+Gnx7+InwbmE3g3xjrGgqd2YLa4Y25/wC2TfLRqB+k/wDwWM+Gep6p4V8NeMbDRdJfT9PYwahqrSFdQXJzHGo6GLOSfc1+W3gzw9qHi7xbpGj6VbW93ql7cRwwW11MsUUrf3WZ2VVWtL4gfFjxn8VtSN94x8Uat4juC+4NqFy0iI3+yn3VrkqNQP6WfhL4UbwL8MvDGgyafp+lT2OnwwzWek7/ALJBKFHmLFvJbYG3Yyc4r8R/+CjHw11X4d/tLeI5bzR9L0uw1ad73TzpMu4zxsxJmlUsWWb8PpXnvhn9rj40eEPDtzoek/ErxDa6VNwY/tzORnr5btloq8s1jXNQ8R6lPqGq311qWoTf625upmllfH95mo1A7D4E/ES9+FPxe8J+J7PUpdGay1CIXF3D95bZm2zr/wB+q/UX9ob4gfEjQPgb+014qh8cWeseGLm50eXwheaPfw3gtrKe7EU6gJ0yD0J559K/H6uq0H4oeJPDPgfxT4N03URD4c8UNbNq9j5Kt5/2aTfB8zLuXa9AHK19heB/FVn4X+Gfwu1GTXf+EVnuvBes6FpPikrIV0fVDrlxNuLRIWjZrVyu5efm9q+Pa7LwN8ZPHnwvtbq38JeMdb8NWtw2+eHTb+WCKVv7zKtAj6c1Dxh/wkXg/wAQ21x4tbx9qHhzwFqNtrXixDM9tLNcXtsLaHzJlVpGXhN718Y13Hjb45fET4laaumeK/GuveIdOSTzls9Sv5ZYN397a1cPQAUUUVIBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAV7n+zh4l1L4R6Pr3xV0jWH0240XVNN0Sa3+wpd+Zb30d67SbHYKZImso2T8K8MrqvB/xS8XeAdJ17SvDfiTUdD0/Xofs+qW1lcNGt5Htddsqr95dk0v51WoH6Br53hPTPHRsfiJM0PhzS9P0+6m1PRdKs5tXmlsPNtvOmn1CPzPKhtbXbtfzfrXxf8AHDwre+HfCvw2kn8Wr4j0yXRpP7MtpLNrR7K2853+VW+ZoZJZZdkrVg6X8f8A4kaCutrp3jbXLJddhji1Ew37L9sjSLyVWX+9tTI/GsXxh8TPFXxCj05PEuvX+spp8fk2f26bzfIj2ou1f+AJQB6/8CfBfj/TPhhrXxD8N+L18I+FEnuLHW7/ADj7OYI4ZIm/66yNd7Ittdr44+Efxk+G/gDw/p1t4tnvNH8XTWOh2+kx2c9qJXu7JBGsDyxqsimJI4pWi9MGvGPAP7Q3ib4b+Cf+ESsoLC78OS3l3d32m3yyPFqC3ECQNHOquu5V8rev8StXYal+2d4k1a3hifw9odnJDDDturV7vf8AaILB7G2uf3s8qo0SSyMvlIlAGP8AG/SPihfeH9N1fxZqlx4k8K2l3JaaVq32mNluN7NGtx5f+sXzfsh2yy/e8qrn7KPgU+Jta8T+Ii9rdr4T0ttWGlalolzqlhqEifdW7SH7sP8AeZq5bxJ8fNa8T/B3Rvh3caXpselaZNHLFdx+e0/y7/78rRx7vN+bykTdXn+n6zqGjpdpY309ol3btb3XkzMvmwltzRtj7y/JRqB+hHin9pGTT/hIPEJ8a674i0aeNks9N1/4X2MfhTVZwPmsYsfOnQ857V+fOuarJrmq3N60UUHmyMyW0G7yrdf+ecan7qr/AA02bWL640mDTHvrh9LtpZLiCzeZvKikkVFZlX+82yLdVKgD2T9n39nXVPi5468CwatZalpfgnxJrR0Vddt0+XzlTcyLX3n+zn4btvB9r+zdotsfNTTfiR4nsknk+8yxwXS/0r82PD/xe8a+F9M0jTtI8U6tp1ho982p6fa2tyypa3TLt86P+61WbH45/ELTZNLksvGOtWsmm3s+pWTpdsvkXU3+umT+6z0ajMT4gf8AI+eI/wDsJXP/AKNevZfhz+yrf6t4Q+J+o+M4NU8L6j4Z8KReKdNtpIVX7bHIxCt/1zbFeAXNzNfXMtxcStPPMzPK8n3nY12l58bviBqSXyXHjHWZ0vtLj0a6SS8ZvNsI/u27f3o1o1Efo98c40j0D9pdQqon/CtvCo/IsK+Iv2EP+TwPhZ/2F1/lXn2pfG/4gaxHq6ah4w1i7j1izg0/UUnvGb7Xbw/6iGT+8q1Q+F3xI1X4Q/ELQPGWiJBJq2i3IurZLpN0bsP7y0ajP0z/AGdf+CXPjr4N/H7wv491TxZ4f1DT9LvGupbW0ScStkdBuGM/jX51fs9+B/E3xK+Kml+HPB+pxab4hvFm8jzL9rH7RiN2aFZU/ikSvqqb/gsp8a2ikx4a8CR9tw029JX/AMnK+EoZpIJlliZo5Eberx/KyMKNQP0m8RfEKf4DfC34LeMbH4V3nwsl0Px1eqPh5dzTvNqqSWgSS+VrhPO4zt5GOfxrH+M02hfsv/sx2o8H6X4u8EeLNa8c2/iDTdM8aG2/tCBbZWbzjBH92Fen418B654u1zxPqEd9rGs3+q3sSqi3F9ctPKij+6zVT1XVb7XLxrvULye/un+9NdTNKz/8CajUR+oeg6Wn7QHwfHgbWr6SHVrgaQ+tad8NdJh2WUOpXDzW0H/XJP8Aj6uq/Mzxt4b/AOEN8aa94fS7ivv7M1Cex+2QfduPLkdPMWq+h+JNW8M3Etxo+q3mkzTRtE01jctA7xn7yttrNo1AKKKKkAooooA7z/hRXjj/AKAf/k5B/wDFUf8ACivHH/QD/wDJyD/4qvreir5Sz5I/4UV44/6Af/k5B/8AFUf8KK8cf9AP/wAnIP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**![A screenshot of a login page

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**![A screenshot of a login form

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SP4RXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIzOjA4OjExIDIyOjAzOjMyAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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