AN OTP BASED CARDLESS TRANSACTION USING ATM

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ABSTRACT:

Banks give atm cards to client to mileage the services like cash pullout, leg change, balance inquiry etc. But physical cards have some problems. It can be stolen, skimmed, reproduced, commandeered, damaged or expired. Due to this problem, we need to suppose an alternate way to give better security. Numerous experimenters are allowing about cardless sale through atm. Proposed a abstract model for cardless electronic atm through which client can do cash pullout, balance inquiry, fund transfer etc. We've anatomized their protocol and plant some excrescencies on this. This protocol doesn't specify what if it's off us sale. Either, guests get different orders of services but this protocol cannot determine which client will get which order of services. For this applications we are using face detection with the account number, aadhar number, pin number, mobile number and name. When we recognize the face then it will give access to enter the atm details. After that it will send message to the phone number. If we enter the password it will give transaction access. For this purpose we are using deep learning.

I. INTRODUCTION:

A computer-implemented method for cardless use of anautomated teller machine (atm) is provided. The method includes receiving as an input, a user-identified atm that the user wishes to use. The method also includes generating and transmitting a one-time password (otp) for the user to enter at the identified atm. The method further includes receiving and verifying the otp entered into the atm, and on successful verification, authorizing access to services available through the atm, without use of a card. To reduce the threat involved in atm machines that were installed in remote area, also the issue related to fraudulent sale like misusing others card to withdraw plutocrat and etc. So in order to overcome these challenges, we've developed result that will work the ml & ai to circumscribe card access to only the authorized druggies those are linked by face recognition algorithm. This method is useful in many fields such as the military, for security, schools, colleges and universities, airlines, banking, online web applications, gaming etc. This system uses powerful python algorithm through which the detection and recognition of face is very easy and efficient. Surveillance cameras are an essential security precaution in all public places. In a centralised surveillance system, videos collected from different cameras are stored in a centralised server. If any security threat is caused by the presence of an individual in a particular place, the law enforcing team will have to identify the current location of the particular person involved in the event as early as possible. Though the videos collected from surveillance cameras help to identify the person's presence in a location, checking the person of interest from a large collection of videos is a herculean task if it is done manually, the complexity of the task depends on the number of cameras involved in the surveillance process. Deep learning-based video analytics can help us to automate this identification task. Deep learning is a powerful tool to do image classification.

II. OBJECTIVE:

The main objective of the project is to detect the proper details for the transaction of the atm .so we should give proper details if details correct means then we should create otp and if otp correct means face recognition we should do.if face not matched with the data bae means it wont allow to the transaction .
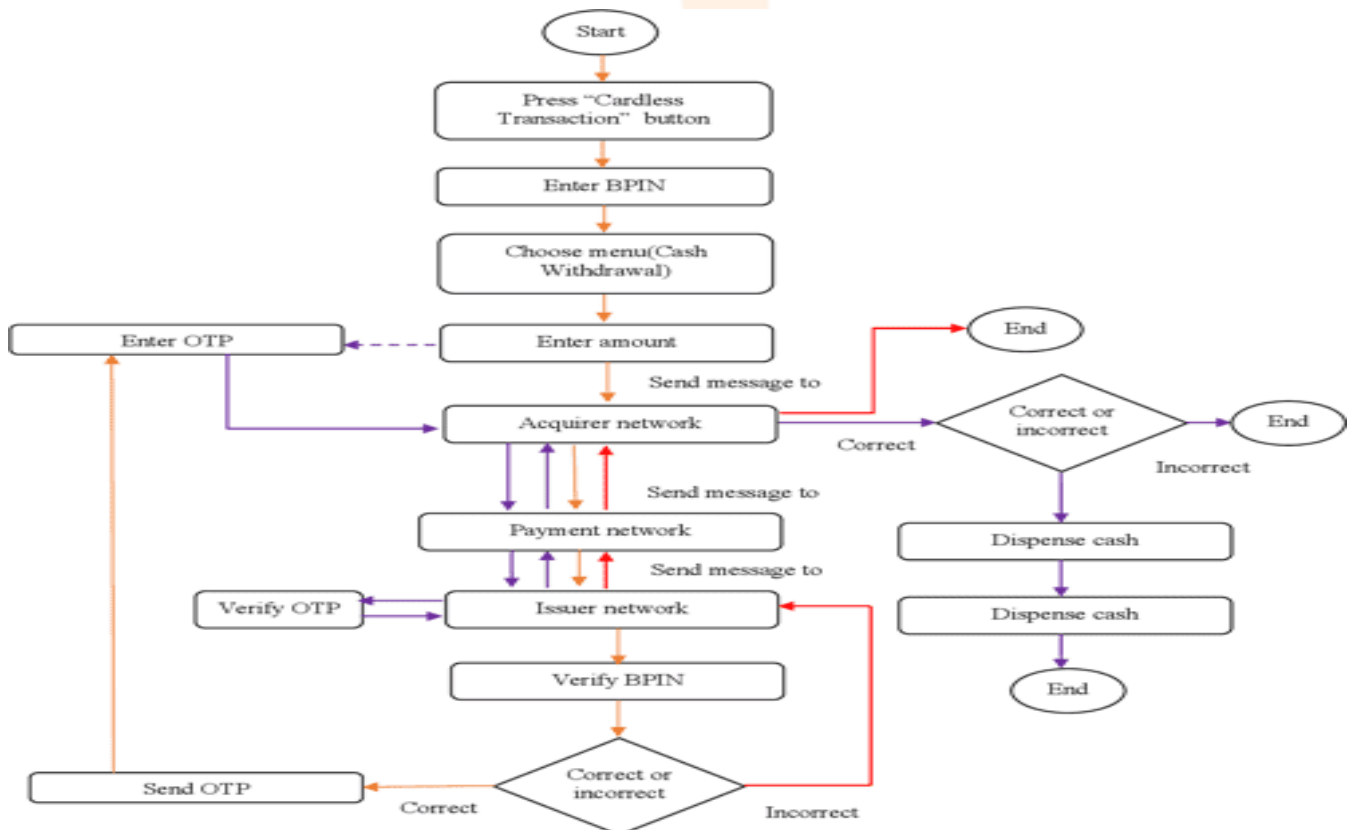
III. SOFTWARE AND HARDWARE:

The software and hardware components of the system are shown. The hardware components are Raspberry Pi B+ model, 16x2 LCD Display, 4x4 Keypad, GSM Module, TTL Module, Web Camera, RFID Reader and RFID Card and Power Supply.

IV. DATA FLOW DIAGRAMS FOR FACE DETECTION & RECOGNITION:
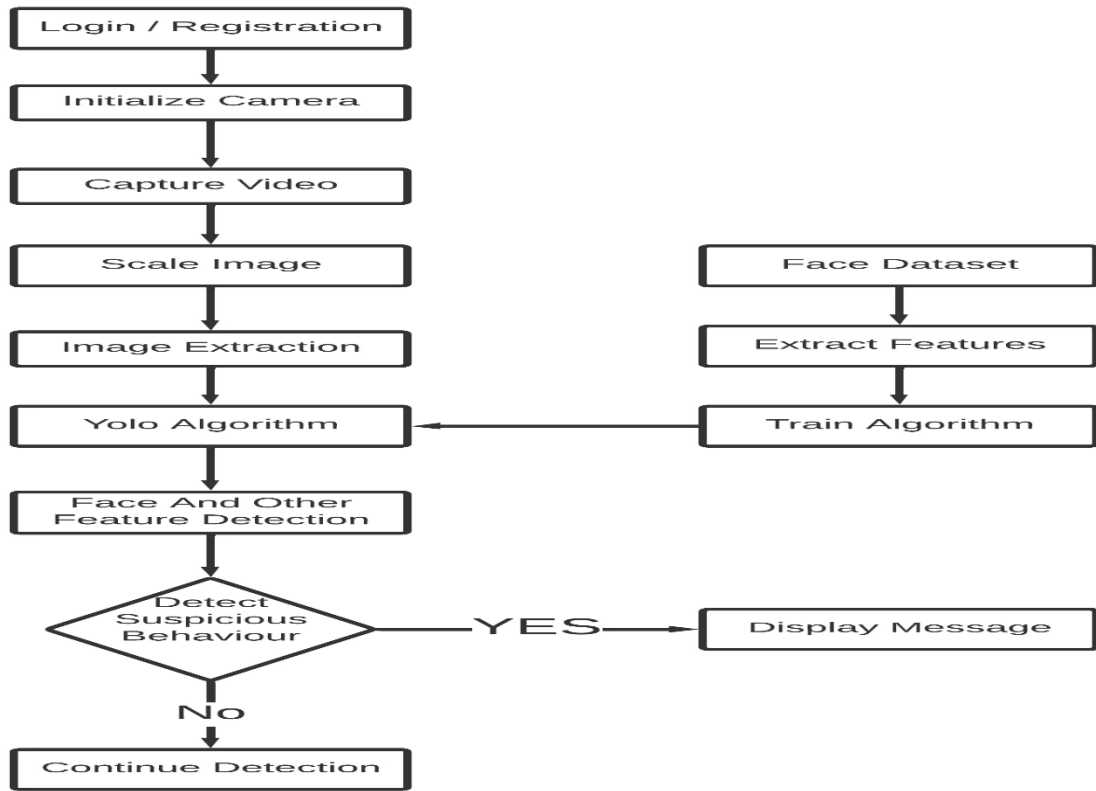
V. FLOW CHART:

VI.   RESULTS: The working result of the project is explained with the images shown below. Images of the whole project and the results obtained are mentioned.

Fig 1. Login Page

Fig. 2 Capture Face Id

Fig. 3 Registration of Face Id

Fig. 4 Main Page

Fig. 5 Matching Face Id

Fig. 6 Proceed to Transaction

VII. CONCLUSION:

The main theme of the project is to give full security for the transaction of money.then it will give more secure using random password and face detection based using haar and

deep learning with the open-source computer vision in real time applications.for the next generation we can assign the all requirement in atm machine using hardware part.

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