KYC FACE RECOGITION USING LBP ALGORITHM

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Abstract – *As we all know KYC was launched in India in 2002 but RBI made it mandatory by 2005. Since then we all are familiar with KYC verification. We all know the procedure of KYC verification. First we have to collect the KYC form and then have to fill it correctly. If we made any mistake while filling the form then we have to collect new form again and have to fill it again. After filling the form correctly we have to wait for our turn and it takes at least 10-15 minutes. On the basis of all this problem we are facing for verification, we want to step forward for resolve this problem. We want to make a website for KYC verification. In this website we can apply for KYC verification process includes Aadhar ID, Voting ID, Passport, Pan card and face identification using webcam. So we can easily verify KYC anytime and anywhere on online platform. It will save our time.*

Keywords – nearby Binary patterns (LBP), confront location, confront acknowledgment, outward appearance exam, close by highlights.

I. INTRODUCTION

AS we all know KYC was launched in India in 2002 butRBI made it mandatory by 2005.Since then we all are familiar with KYC verification. We all know the procedure of KYC verification. First we have to collect the KYC form and then have to fill it correctly. If we made any mistake while filling the form then we have to collect new form again and have to fill it again. After filling the form correctly we have to wait for our turn and it takes at least 10-15 minutes. On the basis of all this problem we are facing for verification, we want to step forward for resolve this problem. We want to makea website for KYC verification. In this website we can apply for KYC verification process includes Aadhar ID,Voting ID, Passport, Pan card and face identification using webcam. So we can easily verify KYC anytime and anywhere on online platform. It will save our time.

II. LITERATURE SURVEY

Face Recognition System Based on LBPHAlgorithm[1]

In this paper, we have proposed a system that is using Local Binary Patterns Histogram algorithm for identifying a face. It can recognize both front and side faces and upgrade the value of poor enlightened picture and also expands the recognitionrate in real time.

A Secure Banking By Face Recognition Method.[2]

There is associate degree imperative want for rising security in banking region. This project we have a tendency to discusses concerning banking transactions exploitation facial identification. The target of this projectis to develop a strong automatic formula for transacting cash in higher level security purpose with high recognition rates in varied setting. The biometric authentication code with banking code is a lot oftypical ways. The processed info passes through the info of banks and payment systems. Once facial identity is matched then dealings can finished. Haarcascade based mostly formula has been applied for quick and easy face detection from the input image. The result show that the planned formula has able to train a lotof quantity of information and high accuracy.

An Efficient Face Recognition System using LBP.[4]

In this paper a primary increase for fruitful facial photoexamination is to infer a probable facial portrayal fromthe first face photos. As of past due, nearby Binary styles (LBP)

nearby Binary patterns (LBP), confront location,confront acknowledgment, outward appearance exam, close by highlights.

III. METHODOLOGY

Now-a-days KYC verification is a hectic task, But through are system we will make that process very easy and less time consuming. A user will just haveto login to the system and after that he/she have to upload the necessary documents such as aaddhar card or pan card etc. Then the user just have allow the camera access after that the face recognition will work instantly user doesn't have to wait for some time or even days in some cases. The purposeof this project is to make the KYC process easy andless time consuming for the people.

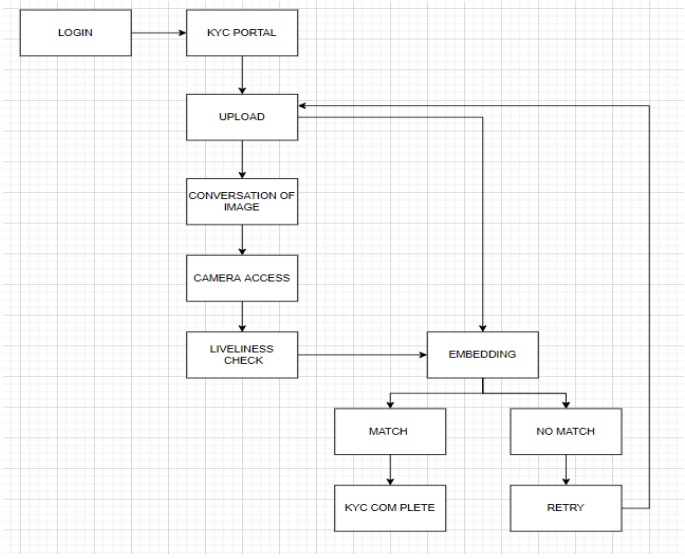

Fig. Block diagram for proposed system.

IV. IMPLEMENTATION

Uploaded document converted into base 64 string usingVanilla JS.After giving access to the camera then there will be a liveliness check using TensorFlow js through the face Detection library of python, Face will be detected and the image which gets captured would be converted into base 64 string through Vanilla JS Then Image (base 64 string) and document (base 64 string) gets compared. If the image & document compared properly, then KYC is completed else there is a retry option that will be displayed and whole process will berepeated.

Fig1. Registration page

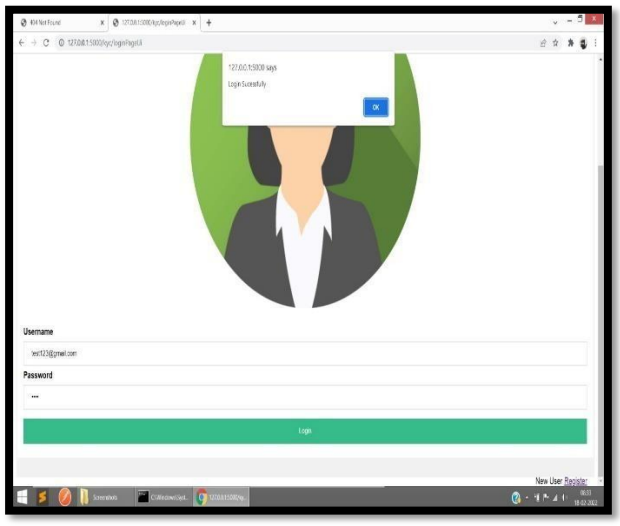

Fig2. Login page

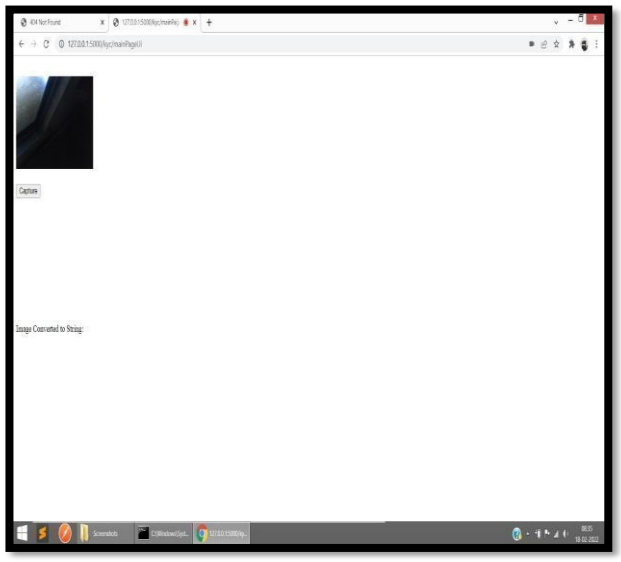

Fig3.Live Image Capture

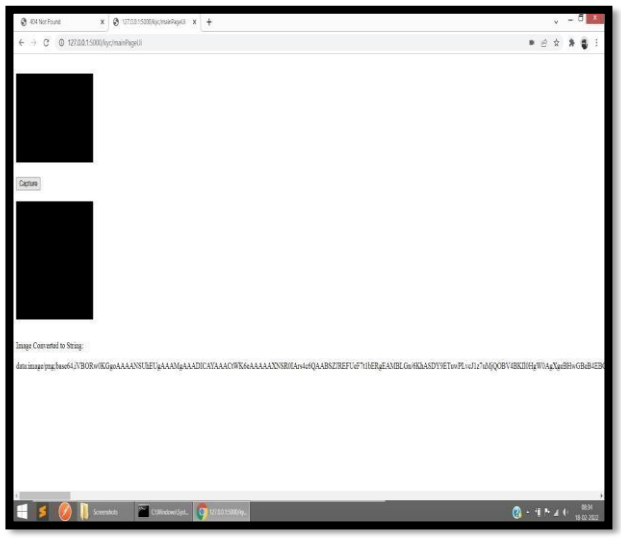

Fig4. Face Capture

IV. CONCLUSION & FUTURE WORK

The main objective of these project is no need to go outside for Verification process and avoid all offline problems. It will also save time for the users so that theydon't have to wait for daysto getthere kyc done.

V. ACKNOWLEDGMENT

A single person can't do this whole entire work with progress. In any case, we have made an effort in this report to offer our thanks to the people who have added to this field and given quite a while in the research.At the very start, we are exceptionally grateful to Mumbai University and our college St. John College of Engineering and Management, and our project Guide Mrs.Vidya Kawtikwar for offering.

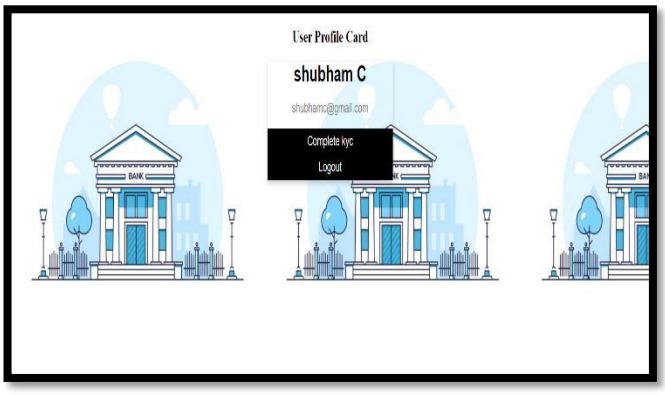

Fig5. KYC Main Homepage

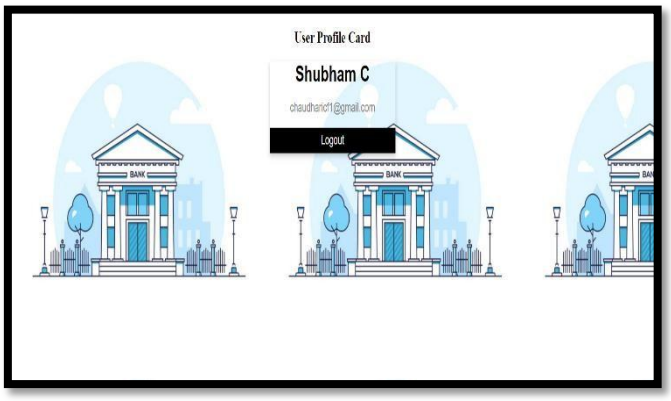

Fig6 .KYC Completion Home Page

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