

# Survey on Online Transaction using Face Recognition

Namita Jain<sup>1</sup>, Vikrant Mukkavar<sup>1</sup>, Mahesh Jadhav<sup>1</sup>, Prof. Shruti Sekra<sup>2</sup>

Bachelors in Engineering, Computer, G.H. Raisoni Institute of Engineering and Technology, Pune, India<sup>1</sup>

Professor, Computer, G.H. Raisoni Institute of Engineering and Technology, Pune, India<sup>2</sup>

**Abstract:** The Increasing growth in E-Commerce market is very important in the world. During this online shopping, personal information security and Debit or Credit information increasing popularity of E-Commerce and they are major part . This paper provide the limited and necessary information for fund transfer using online transaction there by safe the customer data and confidence. A face recognition technology identify a person information through a digital image. It is automatically identify. It is mainly used in security systems. The face recognition will directly capture information about the human faces. It match the face identity in different angles. It is mostly used in airports. It will recognize the face identity and we can avoid some unwanted fraud using face recognition system .The main advantage of face recognition is used for fraud restriction and crime controlling purpose because face images that have been archived and recorded, so that it will help us to identify a person later. Face recognition is it identifies each skin tone which is individual of a human face's surface, like the cheek, curves of the eye hole and nose etc. this technology may also be used in very dark condition and preventing identity theft.

**Keywords:** Online shopping, Information Security, Face Recognition.

## I. INTRODUCTION

Online shopping is gaining the product information via internet and purchase product using fill customer information like credit card or debit card information. Also product shipped to home address via home delivery. This information will quick access completed transaction. The Growth of electronic transaction is increasing which handled by electronically with face to face. This transaction deal with accurate and fast authentication and identification of user. This system use Computer system, banking account for transaction and identification of user. They provide PIN for security purpose. Use the proper pin for access. But customer not use proper pin then not be verified. In many case the debit or credit card are lost that time unauthorized user can access personal information like password is phone number, birthday common number. They are easily guessing PIN.

So we need to improve security like strong password. But authorized person take easily to password that time using Face recognition technology improve the security and information of authenticated user.

What is Face Recognition?

This is nothing but identify the face like face surface, face curve, cheekbone, nose, eye. It measure the face point (such as distance between cheekbones and other points). points are compared to database stored points. user stored the face points in banking system database.

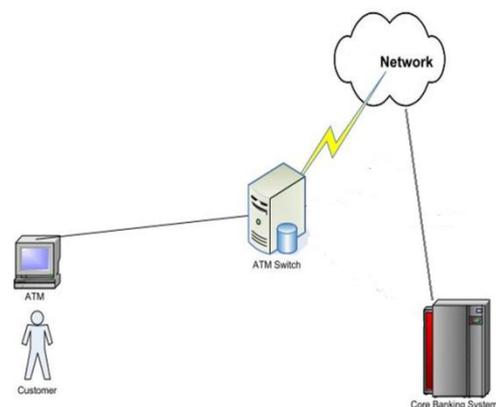
## II. REVIEW OF RELATED LITERATURE

The online transaction work as follow in the format.

User will give the information of account then it verify by system. It provide the PIN to user. This process will give

an less security. Because user neighbours can also known the user information and they access the transaction using online transaction. This is not be more secure.

Following is the Existing system :



In a proposed system we use face recognition. The main advantage of this technique is they give more security about user information and authentication because system takes picture or live stringing. Of authenticate user at the end of transaction process. It will match the face point which is all ready stored in bank database.

We use the Local Binary Pattern Histograms algorithm. you can capture very fine texture details in images. In fact Author were able to complete art result for texture classification. Take customer's picture(s) when account is opened and allow user to set non-verified transaction limits. Take user's picture; attempt to match it to database

image(s). If match is successful, allow transaction. This is done more secure transaction via face recognition. User also more secure and take transaction easily.

### III. RESERCH METHODOLOGY

In this paper, a payment system for online transaction is based on face recognition provides authenticate user data privacy and prevents misuse of data in world. This technique identifies theft and prevent customer data which improve security. it match face point using LBPH algorithm .in banking application they uses cryptography. In the proposed method E-Commerce focus on online transaction as well as banking system.

#### A. Issues and Challenges

Followings are the issues and challenges which are faced in system.

- 1) Less Security in proposed system.
- 2) At the end of transaction only OTP is provide so they easily access.
- 3) Lack of awareness of personal information in transaction.
- 4) Lack of awareness of future development.
- 5) High-cost maintenance.

### IV. SYSTEM ARCHITECTURE

#### A. Basic Architecture

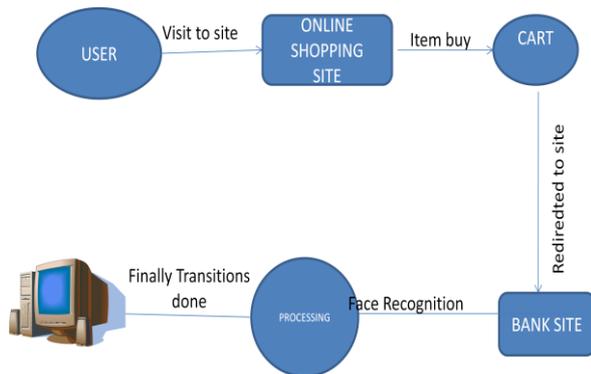


Fig. 1 Architecture diagram for application

This technique is taking face points of user And they match face point which store in banking system using LBPH algorithm. They give more security. The main advantage of this technique is they give more security about user information and authentication because system take picture or live stringing. of authenticate user at the end of transaction process. it will match the face point which is all ready stored in bank database. we use the Local Binary Pattern Histograms algorithm. you can capture very fine texture details in images. In fact Author were able to complete art result for texture classification. Take customer's picture(s) when account is opened and allow user to set non-verified transaction limits. Take user's picture, attempt to match it to database image(s). If match is successful, allow transaction. This is

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#### B. Activity diagram

Activity diagram is another important diagram in UML to describe dynamic aspects of the system. Activity diagram is basically a flow chart to represent the flow form one activity to another activity. The activity can be described as an operation of the system.

Fig to show the activity diagram which represent the multiple activity to be undertaken by the admin and to produce the graph based structure for effective decision making. The activity diagram also indicate action to be taken in event of captured of a suspect.

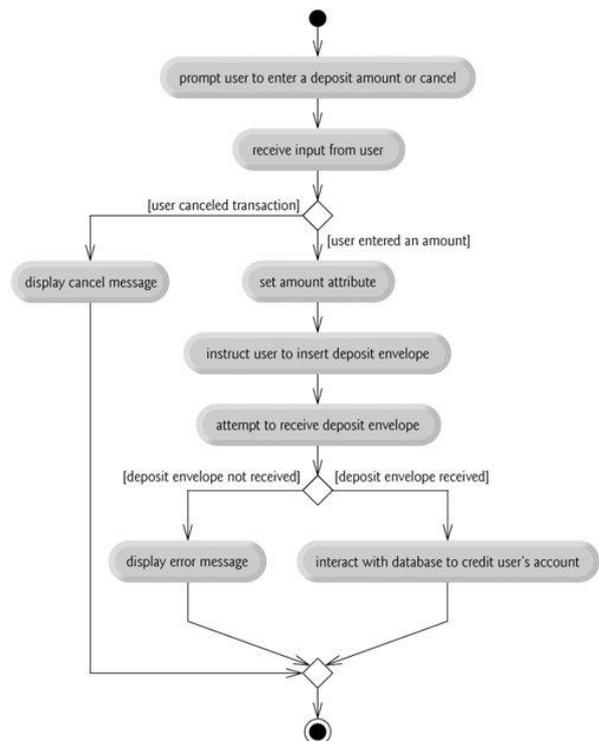


Fig.2. Activity Diagram

### V. DISCUSSION

This system can convert the less security into more security transaction. This system create a more reliable communication means user and bank system. Also it generate face at the end of transaction which is verify by various algorithm. This is useful to reduce or totally remove fake transaction, i.e to read OPT then it required face of user which is provide for transaction. Then the transaction is done. User can easily done Transaction. using graphs and make a decision.

### VI. CONCLUSION

In this paper, a payment system for online transaction is based on face recognition provides authenticate user data privacy and prevents misuse of data in world. This technique identify theft and prevent customer data which



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