Money Transaction during Online Shopping

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Abstract: In present day information and fund sharing is complicated during online payment systems because of the intruders and hacker. They will hack all customer secret data stegnography and visual cryptography are most explore techniques are to be used to avoid that type of hacking during online fund or information sharing. In this project two high level security to the information sharing one is cryptography and other is stegnography. Cryptography will convert the visual image in two shares and stegnography will hide the secret data into it. In this project we implement and advance systems of encryption data and combine the feature of cryptography and stegnography. This project will helps to transfer fund and information during online shopping with the help of text based steganography and visual cryptography to encrypt and decrypt the data during online payment with the help of text based stegnographic RES algorithm and cryptographic we implement this project

Keywords: Fund Transfer, Cryptography, Text base steganography, Online Shopping.

I. INTRODUCTION

The fresh fund dealing protection is called online money transaction system by using steganography and visual cryptography which suggest the mechanism of money transfer with explorer used in online shopping mall this could be ensure recognition card or debiter card can info leak. Online money transaction system using steganography and visual cryptography protection has modified set from the terminal century and it will modify in feature days. Protection is an significant view or feature in money transfer system. The latest theory of money transfer proposes a easy, secure and reliable surrounding for users. In this paper technology propose is specially for computer system but it can easily be used in manual as well as physical banking cryptography and written base steganography. Yet a fresh protection system proposed a multiple features mainly point this paper on protection of money transfer when the user is daily used it two methods are used first is steganography other is visual cryptography from to protect it from third party. This wills safe the data from third party or unauthorised user by using image and text data. The visual cryptography method encrypts the image and the steganography will hide the data in the form of text. The third party cannot recognizes the data with his usual eye because it will encrypted in the highly secure manner. Protection plays an important role in the money transaction system it is the main focus of this system. In normal encryption methods unauthenticated user that is a third party can easily reveal the encryption technique and hack the data but in this method unauthorised users cannot be able to hack the data because it will encrypt in the highly top level security manner. This technique helps to secure our data not only in the recent days but also in feature use. If unauthorised user tries to hack the data he/she will be confused which and how the technique will be used in this system.

Diagram: Encryption:
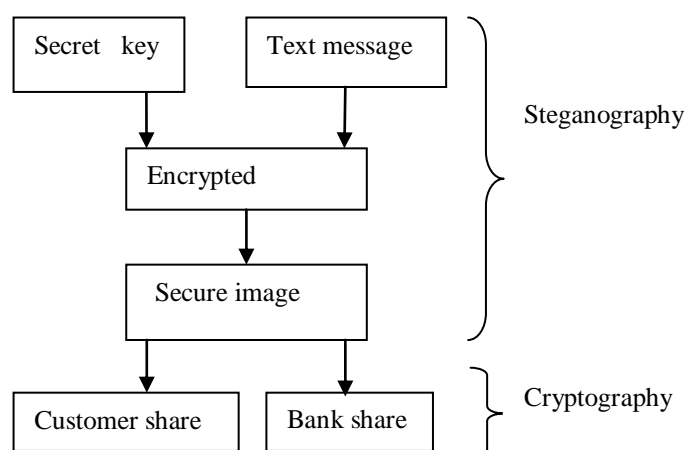
Decryption:
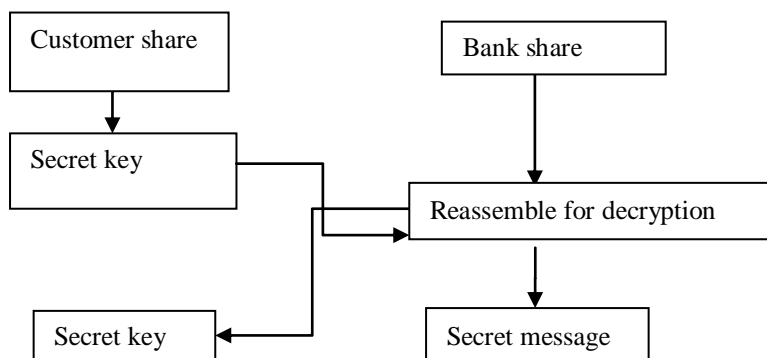
3. METHODOLOGY

3.1 Algorithm(Steganography and Cryptography)
1. Calculate the image pixels.
2. Make a loop through the pixels.
3. In each pass get RGB values of pixels.
4. Make the LSB of each RGB pixels to zero.
5. Get the character to be hidden in binary form and hide the 8-bit binary code in the LSB of pixels.
6. Repeat the process until all the character of the image are hidden inside the image.
7. Read stegno-image generated by above.
8. The stegno image is broked into three layers mainly share 1 and share 2. This two files are containing the hidden data. This two files have to be reconstructed perfectly then.
9. The re-assemble picture and the extracted data will be gained again.

3.2 Text Base Stegnography
Stegnography is the art and science covered writing modern digital stegnography uses text , images, audio, video, etc. as a cover medium. Stegnography is the practice of concealing a file message, image etc within another file or encrypt the data under multimedia like image, video, audio etc. Stegnography includes the concealment of information within the computer files. In digital stegnography, electronic communication may include stegnography coding inside a transport layer, such as a document file, image files etc. Stegnography has been widely used including in recent historical times and the present day. Hidden message within the body of an image is the grace.

3.3 Visual Cryptography
The art of cryptography is considered to be born along with the art of writing. As civilization evolved, human begins got organized in tribe groups and kingdoms. Cryptography deals with the actual securing of digital data. It refers to design of mechanism base on mathematical algorithms that provide fundamental information security services cryptography as the establishment of all large toolkit containing different techniques in security applications cryptography concerns with the design of cryptosystem while cryptanalysis breaking of cryptosystems. The primary objective of using cryptography is used to provide the security to the services or their fundamentals of information security services. Cryptography will used to provide breaking the images or splitting the data images to provide high level of security.

Cryptography Primitives are:
    -Encryption
    -Hash function
    -Message authentication code(MAC)
    -Digital signature
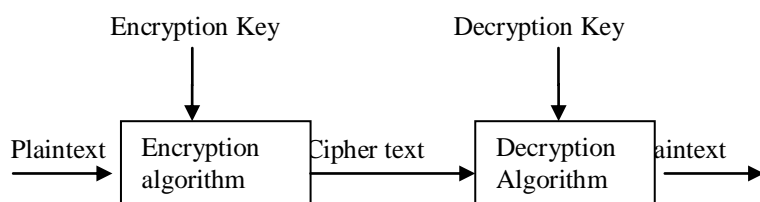
4. MODULES

1.Main Page
It is the home page of the system which will give the name of system and includes two main modules.
a. Online Shopping
b. Banking system

2. Bank login page
This page include the sighining in the banking where we have to fill up the details of bank that is which bank we want and user id, password and we can then login.

3.Bank Midi Page
This page include the four modules in the right hand side.
a. Registration
b. Deposite
c. Transaction
d. Exit

4. Bank Registration Page
Here user can register herself in bank by filling the details of user in this form that is user id, password, customer name, gender and adderess after that this page include again four buttons they are insert, search, update and delete which works according to there steps

5. Deposite page
This page will used for the deposition of money.

6.Ttransaction page
This will maintain the record of transaction.

7. Shopping main page
This is the main page of shopping which include the login and sign up only.

8. Sign up page
This is the sighining page where to user have to sign up herself.

9. Shopping login page
Here user login to do shopping.

10. Shopping home page
This include the the sub modules in its home page.
 a.electronic gadget page
 b. mens ware page
 c. womens ware page

11. Payment Gateway Page
Here user can do the payment of products.

12. Transaction successful page
Here user can gate an message that is transaction is done successfully.

4. FUTURE SCOPE

The projected put to work in this paper uses a stegnography method called image stegnography. The main purpose of the system is to provide protection the wrap median serve to embed the information. In future we cannot utilize same key for encryption and decryption of data which provide high protection.

5. CONCLUSION

In this paper, we proposed a payoff system for online shopping by combining text based Steganography and visual cryptography that provides customer information secrecy and prevents misapply of information at merchant side. The computing is implicating only with stoppage of identity theft and customer information protection. In likening to other banking application which uses Steganography and visual cryptography are basically applied for the physical banking, the proposed technique can be applied for the E-Commercialism with focus area on payoff during online shopping as well as natural banking.

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