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Online Transaction System Using Cryptography

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INTRODUCTION

Information security can be summarized as a set of information, steps, procedures and strategies that are used to prevent and monitor illegal access, troubleshooting, revelation, disturbance and adjustment of computer network sources.

Increasing the privacy, reliability and eligibility of the work, it requires a lot of work to strengthen the existing methods from practicing to break them and to improve upon a new way that are resistant to most types of attacks if not all.

Accordingly, it was proven that encoding is one of the most reliable strategies used to secure information since ancient times. In the days of the Romans who used similar methods to enable protection on their valuable information and documents.

Data encoding is the process of converting the form of data into certain symbols through the use of meaningless codes. The process of encoding and decoding completely depends on a single key which is known as same key cryptography. In this process, the same key is used for both encryption and decryption processes. It requires a secure channel between sender and receiver to transfer the secret key. Double cipher modes are dealt with by a symmetric algorithm: block ciphers and stream ciphers.

The block cipher operates on fixed-length groups of named blocks, without transformation specified by a symmetric key. A constant size is controlled by a set of block ciphers. It consists of several identical rounds of processing in which each round, an interchange is performed on one half of the information, followed by a permutation that joins the two halves.

The original key becomes larger, so multi-label keys are used for each round. A symmetric key cryptography indicates cryptographic algorithm that requires two separate keys: the first of which is private (hidden) while the other is public. Although they are not the same, but they are mathematically related. The public key is used to encode the plain text, whereas the private (hidden) key is used to decode the cipher text.

GAP ANALYSIS

The main drawback of the existing system is that it fails to prevent the hacking of the user and storing data in an image using steganography which increases the memory in the very first place. The newly planned system thus overcome this drawback by not only encrypting the user details but also storing these details in a hash code (cipher text) has a very significant plus over cryptography which is that the intended secret message to be transmitted over a network does not garner any attention to itself as an item of examination.

Thus, the system carries out the transaction using this hash code making hacking of details much more difficult there by adding an additional level of security as compared to the existing system. Along with fraud prevention the system also focuses on fraud detection by carrying out the data mining on the server side in order to determine any king of change in user spending pattern and transaction location further safeguarding the online banking procedure.



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IMPLEMENTATION

Admin Page: -

	Admir	n Login									
ank Customer		Username admin									
ank		Password									
<u>dmin</u>				Submit							
	Activa	te Customer Accou	nt								
ctivate Bank ccount	Activa	ite Customer Accou	nt Makile	Date Of Birth	Gender	Bank Nume	Adress	City	Stalu	Country	Action
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ctivate Bank ccount dd Money ogout	Activa Name ramya bhuvens sarkar	te Customer Accour	nt Ms8ile 8767676767 9678787878	Date Of Bilth 04/19/1992 04/19/1992 15-06-1993	Gender Female Female Male	Eank Name Indian Eant Dank Sank	Address astrok rogar guinoy seriok rogar	clay chemal chemal chemal	State taminadu taminadu taminadu	country esta intia	Action Account Account Account Account Account
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Customer Login Page: -

Online Transaction System Using Cryptography						
	Bank Customer Lo	gin				
Bank Customer	Usertame	Lanara				
Bank	Passort	Patentit				
<u>Admin</u>		Submit New User				

Customer Registration Page: -

Online Transaction System Using Cryptography						
	Bank Customer Register					
Bank Customer	Name	Rayyen Manzar				
Bank	Mobile	9210662564				
Admin	Email	reyyenansari121@gmail.com				
	Date Of Birth	02/07/2000				
	Gender	Make Pemale				
	Bank Branch	. Select Bank Branch.				



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Date Of Birth	02/07/2000
Gender	Male Female
Bank Branch	Select Bank Branch
Account Type	Savings Account
Address	Mau Nath Bhanjan
City	Mau
State	Uttar Pradesh
Country	Inda
	Submit

Transaction Details: -

	Transaction Details							
Account Details	Nar	ime	Hash Code	Time	Ŷ			
<u>Update</u>	13))	yyan	o4a08e247f2b2cccfd82ceebfb07abbd456dd0e69c951e2043c4a10ca0bac0b6	27-05-2022 08:06:27				
Username And								
Password	¢				,			
Add Beneficiary								
Send Money								
Transaction Details								
Logout								



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CONCLUSION

This paper presents a survey of the most important cryptography algorithms to date. These are cryptographic algorithms well studied and analysed to help enhance the performance of current cryptographic methods. The result shows techniques that are useful for real-time encryption. All encryption methods have proven that their advantages and shocks and has proven to be suitable for various applications. comparison between symmetric and asymmetric algorithms show that symmetric algorithms are faster than their asymmetric counterparts. Through the last and in the result of study and comparison, we find that the most reliable algorithm is AES in terms of speed encryption, decoding complexity, key length, structure and flexibility.