



A PROPOSAL TO IMPROVE THE USABILITY OF GRAPHICAL PASSWORD

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Abstract- A Proposal to Improve the Usability of Graphical password system is used to increase the remembrance of the password[1]. In proposed system, a click-based graphical password scheme called Cued Click Points (CCP) is presented. In this system a password consists of series of some images in which user can select one click-point per image. User has to remember the alphanumeric password along with the special characters and to overcome it they preferred CCP to Pass Points, saying that selecting and remembering only one pixel per image was easier in recalling the click points. The concept of using the graphical password can be used to store secure information in banking system. Extensive security and performance analysis shows that proposed scheme is more efficient and resistant against relay attack. System showed very good Performance in terms of speed, accuracy, and ease of use.

Keywords- Password, Bank, Security, Data mining.

I. INTRODUCTION

Data Mining is also known as Knowledge Discovery Process (KDD) and process of extracting predictive information from huge sets of data. It is used for mining the knowledge from data[2]. It provides many types of services in E-Commerce websites and Banking. Data mining tools predict the future trends and behaviours, allowing businesses to make proactive, knowledge-driven decisions. The automated, perspective analyses offered by data mining move beyond the analyses of past events provided by fair tools typical of decision support systems. The Data Mining techniques can be implemented rapidly on existing hardware and software platforms to improve the value of existing information resources, and can be integrated with new products and systems. Data Mining also engage other processes such as Data Integration, Data transformation, Pattern Evaluation and Data Presentation.

It deals with the kind of patterns which includes Descriptive and Prediction Descriptive function deals with the general properties of data in the database such as Mining of frequent Patterns and Mining of Clusters. Prediction is the process of finding a model that explains the data classes or concepts. The purpose is to use the model to predict the class of object whose label is unknown. The function includes the decision trees and the rules for classification. When data mining tools are implemented on high performance matching dispensation systems, they can analyse massive databases in minutes. Faster dispensation means that users can automatically experiment with more models to understand complex data

II. MODULE DESCRIPTION

The modules of the system are,

- User Registration
- Image Selection
- Login Authentication
- Customer Details
- Transaction

USER REGISTRATION

User Registration is an enrolment of a user. It contains User ID, User Name, Address, Designation, Mail ID, Mobile No, Secret Question and Answer. The user has to give the above mentioned details correctly. If the user fails to give the details properly the user cannot register. Registered users have credentials to the system or software and they are granted privileges beyond those granted to the unregistered user. User registration and login enables a system to personalize itself. The system may also allow the logged-in user to send and receive messages to view and modify personal details and other information.

IMAGE SELECTION

User enters User ID and select the image which he want to be showed at login time, a tolerance value is also selected with will decide that the user is legal or an imposter. To create the image selection a sequence of images will be displayed in the screen and the user has to select the single image for the selection[3]. The image selected has to fix the click points which is used for further authentication.

LOGIN AUTHENTICATION

The registered user login the application using secret password and Mail ID. The User details match the database values and the selected image is displayed on the screen. The user has to give the exact click points that they had given in the registration process. We use persuasion to influence user choice in click-based graphical passwords, encouraging users to select more casual, and hence more secure, click-points. Our resulting scheme significantly reduces hotspots while still maintaining its usability.

CUSTOMER DETAILS

This module is used to manage the customer details including customer Id, name, address and their phone numbers, Account Number, Opening Balance, E-Mail etc., This section reviews the process whereby customers can be set up and all of the controls that relate to that customer defined. The Transaction Reference Number within the Payment Details field of the Bank Transfer form[4].

WITHDRAWAL

It is used to Bank confirmation of your Deposit and Withdrawal. It displays all Deposit and Withdrawal transaction day by day. **Bank Deposit** service provides an instant, secure, and easy method to deposit money into your account. It contains Transaction Id, Customer Id, Customer Name, Account Number, Mode of Payment etc. The act of taking out money or other capital. The concerted action of depositors who try to withdraw their money from a bank. Enter your bank account information and if it matches your Account Information that you supplied when registering your account, the withdrawal will be approved by Bank. As bank withdrawals are handled order of their registration date, the processing time etc.

III. EXISTING SYSTEM

We know that security is the most important thing in the world. When the customer or the user uses any one of their accounts like g-mail, banking, social web sites they need security. Data mining is the technology used mainly used for the process of retrieving the data from the existing database. The security based authentication is provided by the means of the username and the password[5]. In the existing system is implemented in the USB Mass Storage Devices. It is provided for the user such that when the USB Mass Storage Devices is lost or stolen, the other people who are accessing cannot retrieve the information. When sensitive data like the Bank account information, Passwords, important files are stored in the Mass storage device, the people who are stealing the device cannot retrieve the information. An efficient biometric based password authentication is used to improve the security.

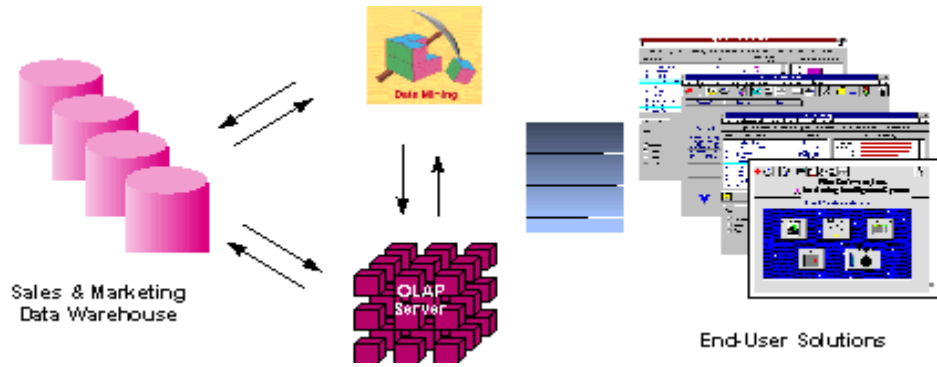


Fig.1. Integrated Data Mining Architecture

IV. PROPOSED SYSTEM

To overcome the drawbacks, a new system is implemented to improve the efficiency of the security. When the user logs in or enters into their personal account, a graphical password based authentication is used in order to improve the security. The graphical password is the selection of the image from a sequence of the image. The user have to click the single click point in the image. It is based on the cued click points. It should be implemented in the banking where the customer logs into their personal account and they undergo transactions. It is reliable against the various attacks. To improve the efficiency the biometric based authentication is replaced with the form of graphical password

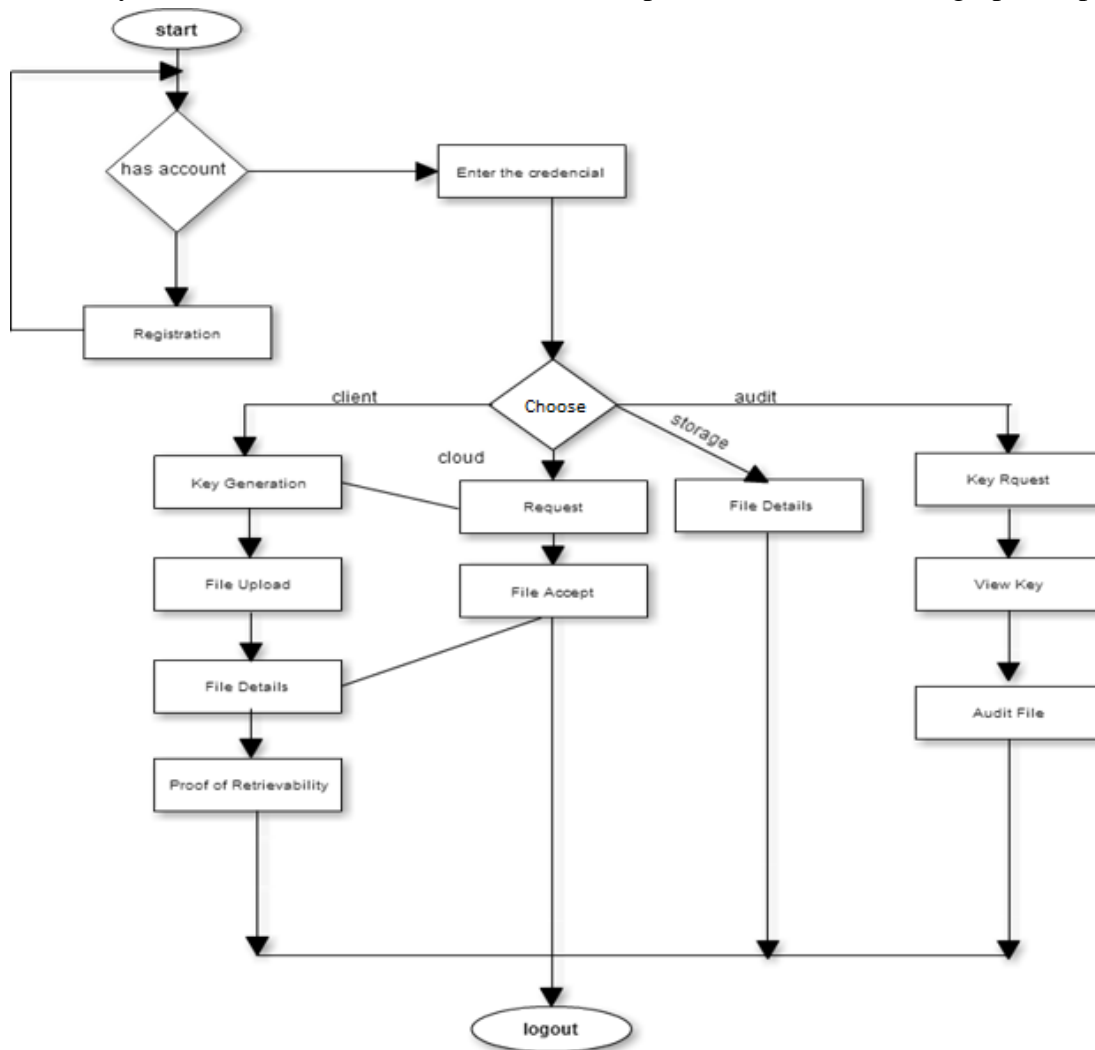


Fig.2. Architectural diagram

V.CONCLUSION

The application is tested well and end users satisfaction is found to be more. It is capable of retrieving data from SQL Server database and preparing passwords. The application is more secure now. The input is given very simple and the login is made with more security. The application works well in network environment. It is efficient for the banking system. The web sites can also be developed with security options provided like security applied in this application

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