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SESSION PASSWORDS BASED BANKING TRANSACTION SECURITY SYSTEM USING TEXT AND COLORS

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ABSTRACT

This mission is entitled as “Session Passwords Based Banking Transaction Security System Using Text and Colors”. This challenge is to be developed the usage of PHP as the front quit device and MYSQL as lower back end. Everyday monetary establishments like banks and insurance plan businesses use web banking transaction to their clients secure from hackers. Textual passwords are the most frequent approach used for authentication. But textual passwords are inclined to eves dropping, dictionary attacks, social engineering and shoulder surfing. Graphical passwords are delivered as alternative methods to textual passwords. Most of the graphical schemes are susceptible to shoulder surfing. To tackle this problem, textual content can be blended with photos or colorings to generate session passwords for authentication. Session passwords can be used solely as soon as and each and every time a new password is generated. In this paper, two strategies are proposed to generate session passwords the usage of textual content and colorations which are resistant to shoulder surfing. These strategies are appropriate for Personal Digital Assistants. Our proposed password scheme's experimental effects on the password information set confirmed higher protection and usability in contrast to state-of-art password schemes.

Keywords:

INTRODUCTION

Textual passwords are the most frequent technique used for authentication. But textual passwords are prone to eves dropping, dictionary attacks, social engineering and shoulder surfing. Graphical passwords are delivered as choice methods to textual passwords. Most of the graphical schemes are susceptible to shoulder surfing. To tackle this problem, textual content can be mixed with pics or shades to generate session passwords for authentication. Session passwords can be used solely as soon as and each time a new password is generated. In this paper, two strategies are proposed to generate session passwords the use of textual content and colorations which are resistant to shoulder surfing. These strategies are appropriate for Personal Digital Assistants. These schemes authenticate the consumer by using session passwords. Session passwords are passwords that are used solely once. The session password is no longer beneficial if session is terminated. For each and every login process, customers enter

specific passwords. The session passwords supply higher protection towards dictionary and brute pressure assaults as password adjustments for each and every session. The proposed authentication schemes use text, colours and pix for producing session passwords.

Module Description

- Registration Module
- Pair-based Authentication scheme
- Hybrid Textual Authentication Scheme
- Deposit details

LITERATUREREVIEW

Existing system

The present device to use passwords can be without difficulty guessed or cracked. The choice strategies are cryptographic passwords and biometrics. But these two strategies have their very own disadvantages. Biometrics, such as finger prints, iris scan or facial

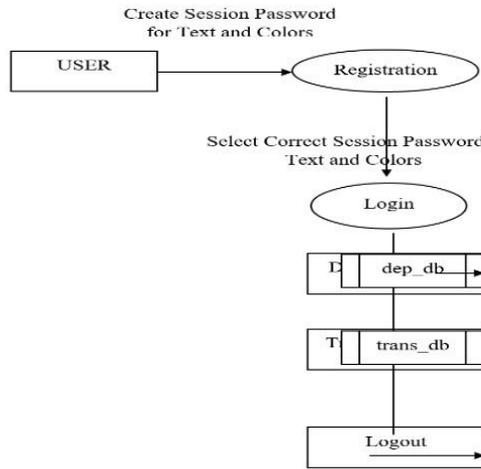
attention have been delivered however no longer but broadly adopted. Disadvantages: The systems can be expensive and the identification process can be slow.

Proposed system

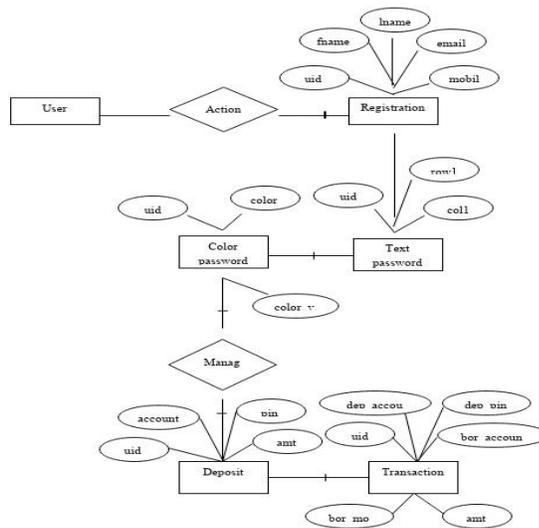
The proposed machine the use of new Authentication approach consists of three phases: registration phase, login segment and verification phase. During registration, person enters his password in first

approach or costs the colorations in the 2d method. During login phase, the consumer has to enter the password based totally on the interface displayed on the screen. The gadget verifies the password entered with the aid of evaluating with content material of the password generated in the course of registration.

DFD DIAGRAM



BLOCK DIAGRAM



Texture Analysis Registration Module

This module is used to registered person Details in three parts. They are Name authentication password, Color Priority Password and Other details. First, person is going to enter the everyday password however it the

usage of capital A-Z letters and 0-9 Numbers. Second the consumer to put the shade precedence in six colors.

Pair-based Authentication scheme

During registration person submits his password. Maximum size of the password is eight and it can be

referred to as a secret pass. The secret pass by must include even range of characters. Session passwords are generated primarily based on this secret pass. During the login phase, when the consumer enters his username an interface consisting of a grid is displayed. The grid is of size 6 x 6 and it consists of alphabets and numbers. These are randomly positioned on the grid and the interface adjustments each and every time. User has to enter the password depending upon the secret pass. User has to reflect on consideration on his secret bypass in phrases of pairs. The session password consists of alphabets and digits. The first letter in the pair is used to pick the row and the 2d letter is used to choose the column. The intersection letter is phase of the session password. This is repeated for all pairs of secret pass.

Hybrid Textual Authentication Scheme

The User must charge colorations from 1 to eight and he can consider it as "RLYOBGIP". Same ranking can be given to one-of-a-kind colors. During the login phase, when the person enters his username an interface is displayed based totally on the colours chosen by means of the user. The login interface consists of grid of measurement 8x8. This grid incorporates digits 1-8 positioned randomly in grid cells. The interface additionally carries strips colors. The coloration grid consists of four pairs of colors. Depending on the rankings given to colors, we get the session password.

Deposit details

In this module preserve the credit details. Users are handy to credit score the cash thru in this website. It module consist of account number, pin variety and credit score amount. Transaction important points Users get entry to the transaction quantity one person to every other user. Depositors are sharing the quantity to borrower account. Transaction procedure is solely feasible o in this software after session password login. Thetransaction module keep the depositor account number, pin number, borrower account number, quantity and borrower cell no.

Systemimplementation

Implementation is the stage in the assignment the place the theoretical layout is became into a working device and is giving self belief on the new gadget for the customers that it will work efficaciously and effectively. It includes cautious planning, investigation of the modern device and its constraints on implementation, diagram of techniques to attain the exchange over, an assessment of alternate over methods. Apart from planning predominant undertaking of making ready the implementation are training and coaching of users. The implementation method starts offevolved with getting ready a graph for the implementation of the system.

According to this plan, the things to do are to be carried out, discussions made related to the tools and sources and the extra tools has to be received to enforce the new system. In community backup gadget no extra sources are needed. Implementation is the ultimate and the most vital phase. The most crucial stage in attaining a profitable new device is giving the customers self belief that the new device will work and be effective. The gadget can be applied solely after thorough trying out is performed and if it is determined to be working in accordance to the specification. This approach additionally affords the best safety for the reason that the ancient device can take over if the mistakes are discovered or incapability to take care of positive kind of transactions whilst the use of the new system. As the phase of machine trying out we execute the application with the intent of discovering blunders and lacking operations and additionally a entire verification to decide whether or not the targets are met and the consumer necessities are satisfied. The last intention is pleasant assurance.

System Testing Process

Testing is carried out after the improvement of the proposed system. The precept endeavor of gadget improvement is getting ready the supply code. In this device the supply code is developed for every module separately. The supply code is organized for grasp documents and they are compiled and corrected. Then the supply code for the transaction archives are prepared, compiled and corrected. Then the modules are mixed and corrected as a total module.

A method for software program trying out have to accommodate low-level checks that are imperative to confirm that all small supply code segments has been efficaciously applied as properly as high-level exams that validate essential machine features towards client requirements. Testing is a procedure of executing software with the intent of discovering error. A exact check case is one that has excessive chance of discovering an undiscovered error. If trying out is carried out efficaciously it uncovers the mistakes in the software. Testing can't exhibit the absence of defects, it can solely exhibit that software program defects present. Test configuration consists of check format and check instances and check tools.

Testing Objectives

Software Testing has exclusive desires and objectives. The essential targets of Software checking out are as follows:

- Finding defects which might also get created by way of the programmer whilst growing the software.

- Gaining self assurance in and presenting statistics about the degree of quality.
- To stop defects.
- To make certain that the cease end result meets the enterprise and person requirements.
- To make certain that it satisfies the BRS that is Business Requirement Specification and SRS that is System Requirement Specifications.
- To reap the self belief of the clients by means of presenting them a nice product

Testing methodologies

Testing methodologies are the techniques and tactics used to take a look at a precise product to make certain it is match for purpose. Testing methodologies typically contain checking out that the product works in accordance with its specification, has no undesirable facet outcomes when used in approaches outdoor of its plan parameters and worst case will fail-safely (e.g. a nuclear reactor will shut down on failure).

Types of Testing

Unit testing

Unit checking out is quintessential for the verification of the code produced throughout the coding segment and therefore the purpose is to take a look at the inside good judgment of the modules. Using the unique sketch description as a guide, essential paths are examined to find mistakes inside the boundary of the modules. These checks had been carried out for the duration of the programming stage itself.

Integration testing

Integration checking out is a systematic approach for developing the software shape whilst at the identical time conducting assessments to find error related inside the interface. The goal is to take unit examined modules and construct a software shape that has been dictated with the aid of design. All modules are mixed in this step. The complete application is examined as whole. And chaos in interfaces can also generally result. A set of mistakes is encountered in such a case.

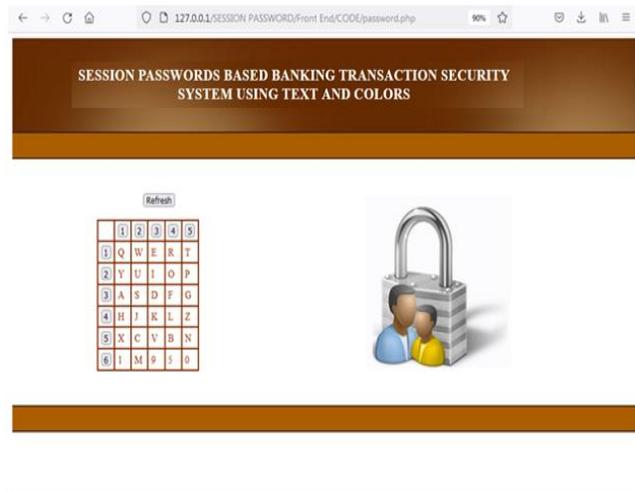
Validation testing

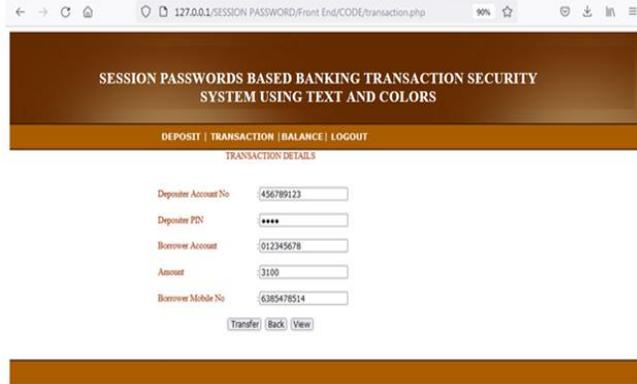
Here in the validation trying out we prefer to test whether or not the given stipulations to the textual content field are working correctly. Because in the title location we choose to enter the characters and the unique symbols solely we have to now not enter the numbers in the identify field. Here whilst on runtime we entered numeric values in the string distinctive columns of product inwards. It raises error. In this segment every module has been examined by using incorrect inputs, for instance Employee Name need to be a personality as properly as their age need to be in numbers.

Functional testing

The purposeful trying out phase of a checking out methodology is commonly damaged down into 4 aspects - unit testing, integration testing, gadget trying out and acceptance checking out – typically finished in this order. Entire device is working appropriate or now not will be examined here, and precise direction connection IS right or not, and giving output or no longer are examined right here these verifications and validations are achieved through giving enter values to the machine and via evaluating with anticipated output.

RESULT AND SCREENSHOTS





CONCLUSION

The software works in accordance to the restrictions supplied in their respective browsers. The software satisfies the Admin. The velocity of the transactions end up greater adequate now. The internet site advent is the internet designing challenge created for showing the important points about the internet portal the usage of the coding languages like Html & C++ for designing. The interface are so designed and channeled the admin can in no way make any mistake whilst the usage of the application, until the time both they shop or cancel the modern operation all different operations are blocked. This undertaking has been effectively developed and interpreted and device was once developed in accordance to the admin requirements. The gadget produces correct consequences and it additionally reduces a lot of overheads, which the guide

REFERENCE

1. Jesus Castagnetto, Sascha Schumann, "Professional Php Programming", Addison wisely Publication, Fifth Edition.
2. Jay Greenspan, Brad Bulgar, "Mysql/Php Database Applications", Tata McGraw-Hill Publishing Company, Third Edition.
3. William Stallings, "Cryptography And Network Security", Tata McGraw-Hill Publishing Company, Third Edition.
4. Bruce Schneier, "Applied Cryptography", Pearson Education, Second Edition.
5. Rogers Pressman, "Software Engineering and Applications", Galgotie Publication, Sixth Edition.
6. www.onlinetutorial.com
7. www.cryptography.com
8. www.tenders.com
9. www.computerhope.com/starhtml.htm
10. www.webdesign.about.com/od/webdesignbasics/u/webdesignbasics.htm
11. www.w3schools.com/php/php_mysql_intro.asp

device faced. The statistics necessities may additionally nonetheless increase.

Future Work

There is a extensive scope for future improvement of the software. The world of laptop fields is now not static it is continually situation to change. The science which is well-known nowadays will come to be out of date very subsequent day. To maintain summary of technical improvements, the device might also be refinement. So it is no longer concluded. Yet it will enhance with similarly enhancements. It is quintessential to trade the software program when new software program arrives with extra superior feathers. So it is a good deal integral for in addition development. Further enhancements can be achieved in an environment friendly manner with disruption to the system.