

Dynamic Web Page Security Using Fingerprint and Card System

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Abstract: The Given dynamic web pages have many security issues, and it can be very difficult to handle. The goal of card and finger print system gives more security to dynamic web pages. In this paper, we clearly discuss and workout the real time example with the help of Internet. Specifically, by introducing this technology the cybercrime also be comes under the control. Finger print verification is an important biometric technique for personal identification. In this paper, we describe the design and implementation of a prototype automatic identity authentication system which uses finger prints to authenticate the identity of an individual.

Keyword: Captcha, Authentication, Authorization, Fingerprint, Smart Card.

INTRODUCTION

In the existing, OWASP and WASC is the emerging standards. It's a body for web application security. The Web Application Security Consortium (WASC) has created documents on web application security. The Captcha and Password based system provides the Authentication. And it's fully based on the MD5 Algorithm. And this has following issues are Denial-of- service attack, SQL injection, Cross – site scripting, Cybercrime. We propose a card and finger print system to the dynamic webpages. It provide the both Authentication and Authorization and also it provides shield to security and its work against cybercrime by using this technique the hacking is reduced. Authorization, Authentication, Reducing cybercrime. Biometric system is automated recognition of person based on their biological or/and behavioral characteristics. Automated measurement of biological or/and behavioral characteristics of person for medical, security or psychological purposes. There are two types of systems that help automatically established entity of a person: (i) authentication (verification). (ii) Identification systems. In a verification (authentication) system, a person desired to be identifies submits a claim to an identity to the system usual via a magnetic stripe card, login name, smart card etc., and system, the system establishes a subject's identity. The topic of this paper is verification system base done fingerprint and the terms verification, authentication, and identification are used.

FINGER PRINT ANALYSIS

A unique finger impression is the generation of a finger impression epidermis, created when a finger is squeezed against a smooth surface. The most apparent basic normal for a unique mark is an example of interleaved edges and valleys.



Edges (additionally called edge lines) are dim while valleys are splendid. Wounds, for example, shallow consumes, scraped spots, or cuts don't influence the fundamental edge structure and the first example is copied in any new skin that develops. Edges and valleys keep running in parallel; here and

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there they bifurcate and a few times they end. At the point when dissected at the worldwide dimension, the unique mark design displays at least one districts where the edge lines accept unmistakable shapes (described Design and execution Biometric Access Control System Using Fingerprint for Restricted Area...357reliable identification requires high goals and great quality unique finger impression pictures. It is essential to employ picture upgrade strategies preceding particulars extraction to acquire an increasingly solid gauge of details areas.

SMART CARD ANALYSIS

The more troublesome and longer the secret word, the additional time the splitting projects will take to find it. Be that as it may, there is no secret key that can't be found, it is simply an issue of how much time and exertion it will take. Solid passwords still just offer one-factor validation, "something you know". When a secret key is found, it very well may be utilized to openly get to your framework.



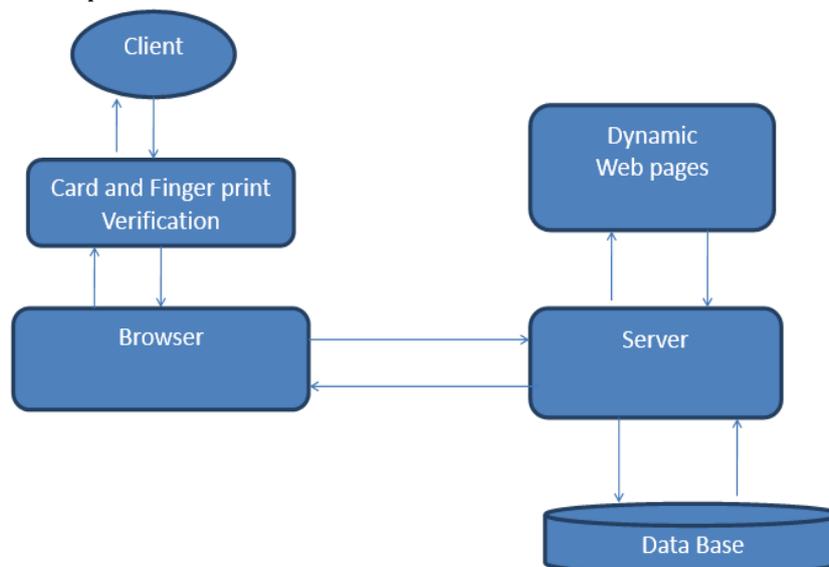
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Passwords can be found and utilized for framework access without the client notwithstanding realizing it has happened. Another favorable position of utilizing savvy cards is that they are "unmistakable", which means they are detectable by contact. On the off chance that a user's card was ever stolen or lost, it is no longer in their ownership and would be found rapidly so the suitable work force could be advised. The client's certifications on the card could then be dropped and another arrangement of accreditations and shrewd card made.

This would counteract unapproved access by anybody utilizing the lost keen card.

SYSTEM ARCHITECTURE

- **Card and Fingerprint Verification:** In this verification technique has the responsible to The Authentication Process, here the client going to login our dynamic webpages with help of their fingerprint samples.



- **Data base:** Here the database can have the responsible to store and retrieve the client details. And the scripting languages will helps to achieve the Authentication.
- **Server:** The Server have to take the client request as a input and it will convert the request into response and its return to the client. Here the client act as a Administrator and the overall Operations is done with help of Server.

LIST OF MODULES

- Page design and database connectivity.
- Web page hosting with contents.
- Security implementation.
- Validation.
- **Page design and database connectivity:** We can create the web page using the HTML, PHP, and BOOTSRAP. Here the Wampp Server is used to act as Local host Server. Here PHP SQL is used to create the Database Connectivity and The JAVA SCRIPT can be used to assign the Web page Behavior.
- **Webpage hosting with contents:** The Dynamic webpage is Hosted with Search engine and its own Contents. Here the SEO optimization is done for Page Rank.
- **Security Implementation:** Here the security is implemented with the help of finger print and card based authentication. Here there are two kind of authentication process present (i.e.) one is fingerprint and the card number based and another one is based on the finger print and barcode. If suppose any one set of verification is done the authentication process is get Finished Successful.
- **Validation:** Finally the validation Process is done with the help of Several Clients.

LITERATURE REVIEW

Most finger-channel progressions are based on points of interest. Samir Nanavati [3] states that 80 percent of finger-look at advances rely upon subtleties planning yet that structure organizing is a primary alternative. This development bases its component extraction and design age on a movement of edges, instead of discrete points. The use of different edges lessens dependence on subtleties centers, which will all in all be impacted by wear and tear [4]. The disadvantage of precedent matching is that it is progressively sensitive to the game plan of the finger in the midst of check and the made arrangement is a couple of times greater in byte size Finger-channel technology is showed and arranged to do a lot of exactness. There is a long history of novel finger impression conspicuous confirmation, request and examination. This close by the unquestionable features of fingerprints has set the finger-look at isolated from other biometric technologies. There are physiological characteristics more specific than the exceptional finger impression (the iris and retina, for example) anyway motorized unmistakable confirmation development prepared for using these qualities have been become just over the span of ongoing years. The advancement has created more diminutive, progressively capable and with various courses of action open. Devices to some degree thicker than a coin and an inch square in size can catch and process pictures. Additionally, some may see the generous number of finger-check game plans available today as a shortcoming; many believe it to be an advantage by ensuring business focus challenge which has achieved different solid responses for work territory, workstation, physical access, and reason for offer environments. Biometric data are free and indisputable from personal information. Biometric groups can't be made sense of to duplicate individual information and they can't be stolen and used to get to singular information.

CONCLUSION

All the biometrics, fingerprint recognition is one of the most reliable and promising personal identification technologies. Finger prints are plays biometric system. In biometrics technologies, finger print authentication has been in use for the longest time and bears more advantages than other biometric technologies do. Fingerprints are the most widely used biometric feature for person identification and verification. We propose a card and finger print system to the dynamic webpages. In this system provide the both Authentication and Authorization and also it provides the shield to security and its work against cybercrime by using this technique the hacking is reduced. Authorization, Authentication, Reducing cybercrime.

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