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# Implementation of Graphical Password Authentication Technique for Security Using Cued Click Points Algorithm

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**Abstract:** In today's world, most Internet applications still establish user authentication with a traditional text-based password. Designing a secure as well as user-friendly password-based method has long been on the agenda of security researchers. On the one hand, there are password manager programs that make it easy to create site-specific strong passwords from a single user's password to eliminate the memory burden caused by multiple passwords.

We offer different levels of authentication such as Textual Authentication, Image Authentication and Audio Authentication to provide better security for applications. User will select username and password while registering in text step. During registration the user has to enter the registered username and password, if it matches the database then the user can log in to the system. In Image Authentication Model, we take image as input from user at the time of registration and put quid point, quid point is selected part of image which is selected by user. At the time of login the user has to select the image and select the part of the image which he/she wants to include at the time of registration, which is called as Cued Points.

**Keywords:** Graphical password, Text based password, usability, security, Attacks, Authentication

## I. INTRODUCTION

In this project, we've proposed a replacement graphical password scheme for accessing web accounts, called "Web Account Access Secured by Identity-Based Graphical Passwords via Watermarking".

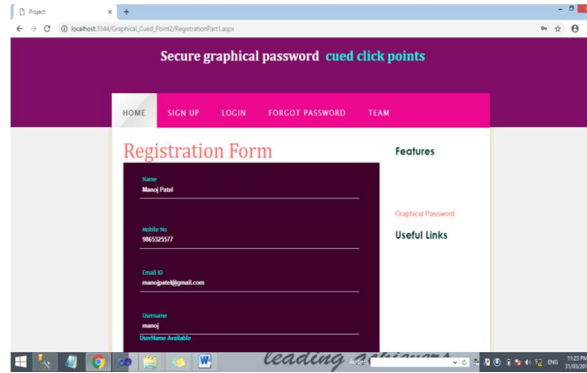
In this project, however, we focused on another option: using pictures as passwords. Graphical password schemes are proposed as a possible alternative to text-based schemes, partly motivated by the actual fact that pictures may be remembered better than text; Psychological studies support such a notion. Pictures are easier to recollect or recognize than text. Furthermore, if the amount of possible images is large enough, the potential password space of a graphical password scheme could also be greater than that of text-based schemes, and thus may provide better resistance to dictionary attacks. together with these (presumed) benefits, there's increasing interest in graphical passwords additionally to workstation and web login applications, graphical passwords have also been implemented on ATM machines and mobile devices.

## II. LITERATURE SURVEY

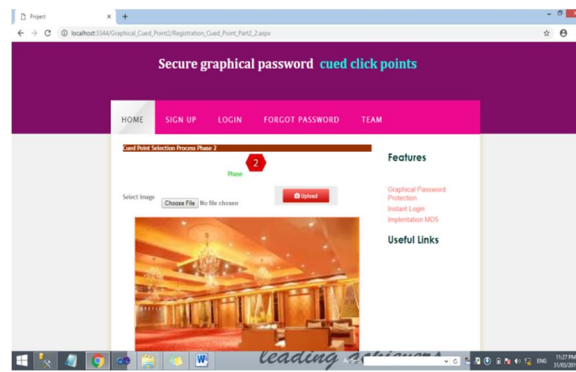
- 1) In this survey paper, they discuss about graphical password authentication methods and exiting graphical password based methods. It fulfills both differing requirements i.e.it is easy to recall and it is tough to predict. Graphical password schemes offer a way of creating more human-friendly passwords. In this safety of the system is very extraordinary. Dictionary attacks and brute force search are infeasible. Passwords are easy to recall. Pictures are stress-free to recall than text strings. Then, they tried to survey on attack patterns and common attacks in graphical password authentication methods. Finally they have discussed different issues related to graphical password.
- 2) In this system they proposed scheme has various advantages such as it will be hard for attackers to guess the password because using feature of PCCP pattern formation attacks and HOTSPOTS will be removed using viewport & shuffle button. By adding feature of secret drawing to PCCP, attackers fails to know that there is use of secret drawing technique in between these images, unfortunately if they knows about secret drawing, they don't get exact idea that on which image secret has to be done .The one more advantage is that the message of correct password or incorrect password is displayed after the final click only, by this feature it will hard for attackers to find on which image their guess is correct or incorrect. So by this their proposed scheme will provide higher security in authentication



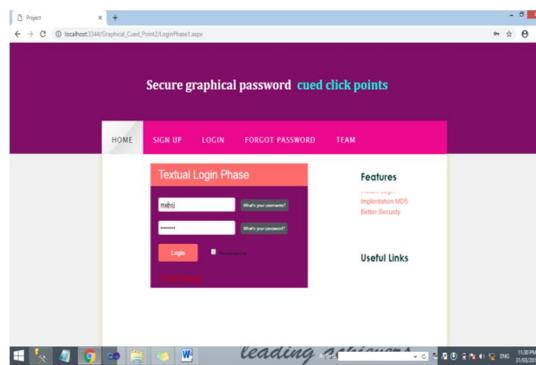
#### IV. SYSTEM DESIGN



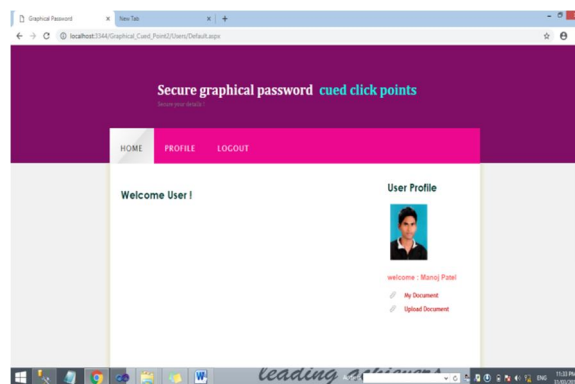
1. Registration Page



2. Cued Point Selection Process Phase 2



3. Login Page



4. After Login Page

## V. CONCLUSION

In this survey paper, we discuss about graphical password authentication methods and exiting graphical password based methods based on different survey papers. Hence we successfully concluded and it is easy to recall and it is tough to predict. Graphical password schemes offer a way of creating more human-friendly passwords. Pictures are stress-free to recall than text strings. Then, we tried to survey on attack patterns and common attacks in graphical password authentication methods. Finally we have discussed different issues related to graphical password.

## VI. ACKNOWLEDGEMENT

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## REFERENCES

- [1] Sharayu S.Ganorkar1 ,Prof. H. V. Vyawahare 2 “ Review Paper On Graphical Password Authentication Techniques “ Volume 5, Issue 03, March -2018
- [2] P. R. Devale Shrikala, M. Deshukh and Anil B. Pawar, “Persuasive Cued Click Points with Click Draw Based Graphical Password Scheme”, International Journal of Soft Computing and Engineering, Vol.3, Issue-2 May 2013.
- [3] R. Dhamija and A. Perrig, "Deja Vu: A User Study Using Images for Authentication," in Proceedings of 9 USENIX Security Symposiums, 2000.
- [4] S. Chiasson, P. van Oorschot, and R. Biddle, "Graphical Password Authentication Using Cued Click Points," Proc. European Symp. Research in Computer Security (ESORICS), pp. 359-374, Sept. 2007.
- [5] J. Yan, A. Blackwell, R. Anderson, and A. Grant, "The Memorability and Security of Passwords," Security and Usability: Designing Secure Systems That People Can Use, L. Cranor and S. Garfinkel, eds., ch. 7, pp. 129-142, O'Reilly Media, 2005.
- [6] L. O’Gorman, "Comparing Passwords, Tokens, and Biometrics for User Authentication," Proc. IEEE, vol. 91, no. 12, pp. 2019-2020, Dec. 2003.
- [7] A. Jain, A. Ross, and S. Pankanti, "Biometrics: A Tool for Information Security," IEEE Trans. Information Forensics and Security (TIFS), vol. 1, no. 2, pp. 125-143, June 2006.
- [8] G. E. Blonder, "Graphical passwords," in Lucent Technologies, Inc., Murray Hill, NJ, U. S. Patent, Ed. United States, 1996.
- [9] S. Wiedenbeck, J. Waters, J. Birget, A. Brodskiy, and N. Memon, "PassPoints: Design and Longitudinal Evaluation of a Graphical Password System," Int’l J. Human-Computer Studies, vol. 63, nos. 1/2, pp. 102-127, 2005.
- [10] S. Wiedenbeck, J. Waters, J. Birget, A. Brodskiy, and N. Memon, "Authentication Using Graphical Passwords: Effects of Tolerance and Image Choice," Proc. First Symp. Usable Privacy and Security (SOUPS), July 2005



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IMPACT FACTOR:  
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