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# Four Level Password Authentication System

*Saikumar M\**

*First affiliation Chennai,TamilNadu 600116*

**A B S T R A C T**

Authentication is the most important thing in the cyber security. Authentication is the only way to secure our personal data's from the attackers. When authentication level increases security also increase. This project is about four level of authentication systems to secure the data by increasing the levels. Text based, pattern based, OTP and smart card authentication.

Keywords: Authentication

## 1. Introduction

The Aim of this project is to implement the security by using four level authentication password. The scope is involved the user scope and also system scope. Firstly, for user's Aim, the user are able to register thelevel increases security also increase. This project is about four level of authentication systems to secure the data by increasing the levels authentication as a user. someone tries to hack the password even if he clicks in first level. level increases security also increase. This project is about four level of authentication systems to secure the data by increasing the levelsSo the user can securely login to the website or application without any fear .Besides, the users are also able to provide data regarding the registration form.The system's aim is using four schemes which are text based password, pattern lock password and one time password and Smartcard.

## 1.1  Objective

This project is an authentication system that validates user for accessing the system only when they have input password is correct. .It contains four logins having four different kinds of password system. The level of the password increases security also increases. The password difficulty increases with each level. Users have to input correct password for successful login.level increases security also increase. This project is about four level of authentication systems to secure the data by increasing the levelsThe level are difficult to crack .The objective of this project is to evaluate the effectiveness of using four level authentication system to improve the security system of the user data.someone tries to hack the password even if he clicks in first level. level increases security also increase. This project is about four level of authentication systems to secure the data by increasing the levels

## 1.2 Proposed System

My project based on Authentication system that gives user to access to particular system with 4 levels of authentication. As varieties of password systems have failed due to bot attackers and the cracks. It contains 4 levels of logins with 4 different kinds of passwords systems. Text based authentication, Pattern based authentication, one time password, Smart card authentication.someone tries to hack the password even if he clicks in first level. level increases Authentication is the most important thing in the cyber security. Authentication is the only way to secure our personal data's from the attackers.

* *Saikumar M.* Tel.: +918939170517

E-mail address: saikumarm07@outlook.com

When authentication level increases security also increase. This project is about four level of authentication systems to secure the data by increasing the levels. Text based, pattern based, OTP and smart card authentication.level increases security also increase. This project is about four level of authentication systems to secure the data by increasing the levelsThe generated OTP can be send to a mobile phone in the form of SMS. A smart card that has embedded integrated circuits. Smart cards are made of plastic. Smart cards can provide personal identification, authentication, data storage, and application processing. Smart cards may provide strong security authentication for single signowithin large organizations.

### 1.3 Module Description

Firstly, the user has to fill their details and along with that they can choose a text username and a password which will be used while logging into the system as the first step. Second, the user has to choose three images from three grids.an OTP will be send to the email id they had given while registering on Authentication is the most important thing in the cyber security. Authentication is the only way to secure our personal data's from the attackers. When authentication level increases security also increase. This project is about four level of authentication systems to secure the data by increasing the levels. Text based, pattern based, OTP and smart card authentication tries to hack the password even if he clicks in first level. level increases security also increase. This project is about four level of authentication systems to secure the data by increasing the levelslevel increases security also increase. This project is about four level of authentication systems to secure the data by increasing the levelsif the given OTP is correct then the user can successfully login to the system. Fourth, the magnetic strip contained smart card stores tag unique number for particular user. The card reader connected to computer through port is used to scan the card and gets the data from it and matches it with the authenticating particular user.

### 1.4 Significance

Passwords provide the first line of defence against unauthorized access to your computer and user personal information. When your password is strong, the more protected your computer will be from hackers and malicious software. You should maintain strong passwords on your computer. The level of the password has been increased with four different levels.someone tries to hack the password even if he clicks in first level. level increases security also increase. This project is about four level of authentication systems to secure the data by increasing the levelslevel increases security also increase. This project is about four level of authentication systems to secure the data by increasing the levelsThesystem is user friendly and as some of the simple interface. Provides strong security against the attackers or hackers. Users can set smart card authentication that Protects systems from vulnerable to attacks.

### 1.5 Methodology:

Systems can be reliable for accessing high has secure database .Provides strong security against bot attacks and hackers .Systems can be difficult to hack if four level of password authentication is implemented .which is not similar to the four passwords with the security level .the first three authentication fails smart card authentication will save from bot attackssomeone tries to hack the password even if he clicks in first level. level increases security also increase. This project is about four level of authentication systems to secure the data by increasing the levels .If the user forgets the passwords .they can login by clicking forget passwords.it will redirect to smart card authentication.level increases security also increase. This project is about four level of authentication systems to secure the data by increasing the levelsso that user can set a new password. Passwords provide the first line of the authentication level and your personal information. The authentication will make the stronger your password, the more protected your computer will be from hackers and malicious software

### 1.6 Originality of the Project

Four level password authentication system is just to implement the high level of security for the user's personal data in the logging page itself. When someone tries to hack the password even if he clicks in first level.level increases security also increase. This project is about four level of authentication systems to secure the data by increasing the levels He will get struck in the second level. Even if he clears the three levels. Smart card cannot be cracked. This is what the main purpose of the project.

### 1.7 Conclusion

Authentication is the proper validation and rights management of the user for accessing the resources of any information system and the most critical element in the field of Information Security.which has No single mechanism is efficient passwords that creates the level of security and effective to provide adequate Authentication is the most important thing in the cyber security. Authentication is the only way to secure our personal data's from the attackers. When authentication level increases security also increase. This project is about four level of authentication systems to secure the data by increasing the levels. Text based, pattern based, OTP and smart card authentication.thus the project was implemented and has to secure the passwords.On

the paper proposes a four level authentication technique which employs textual password, pattern lock and OTP and smart card, hereby combining the benefit of the three techniques/methods to enhance the security of computer

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