

THREE LEVELS PASSWORD AUTHENTICATION SYSTEM

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INTRODUCTION

A three-level password authentication system typically involves three Levels of user verification to access a system or resource. Each level Provides a different degree of security, and users must pass through Each level to gain access. This type of system is often used to protect Sensitive information or resources.

Motivationbehindthe Project

To protect any system, authentication must be provided so that only authorized persons can have right to use or handle that system and data related to that system securely. In order for authentication system to be practical, three level authentications are designed to provide additional security.

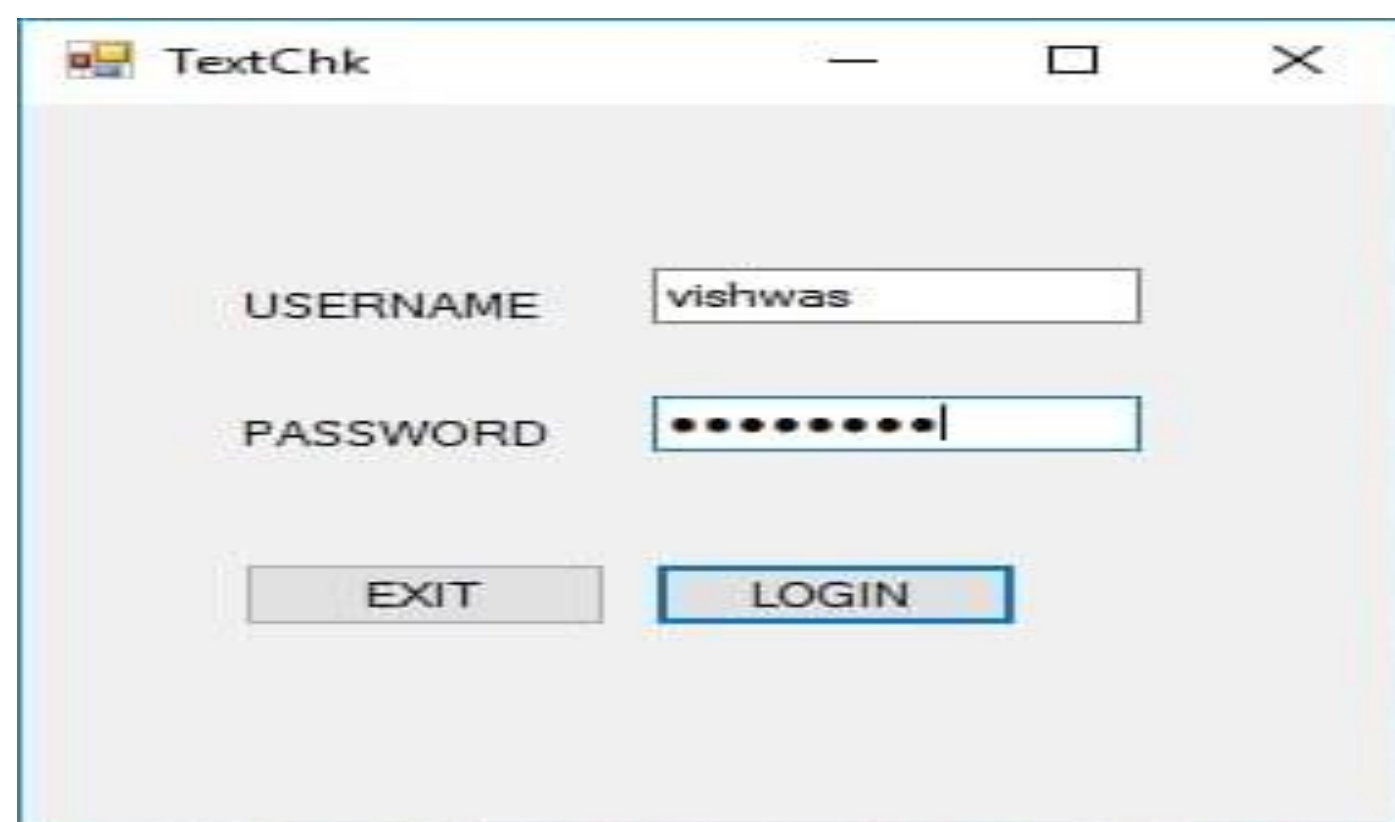
I. METHODOLOGY

ProposedSystem

A three-level password authentication system is designed to Enhance the security of user access to sensitive information, Systems, or resources by requiring users to go through three Distinct levels of authentication. This approach adds multiple Layers of security to ensure that only authorized individuals can Gain access. Below is an overview of each level within this Authentication system:

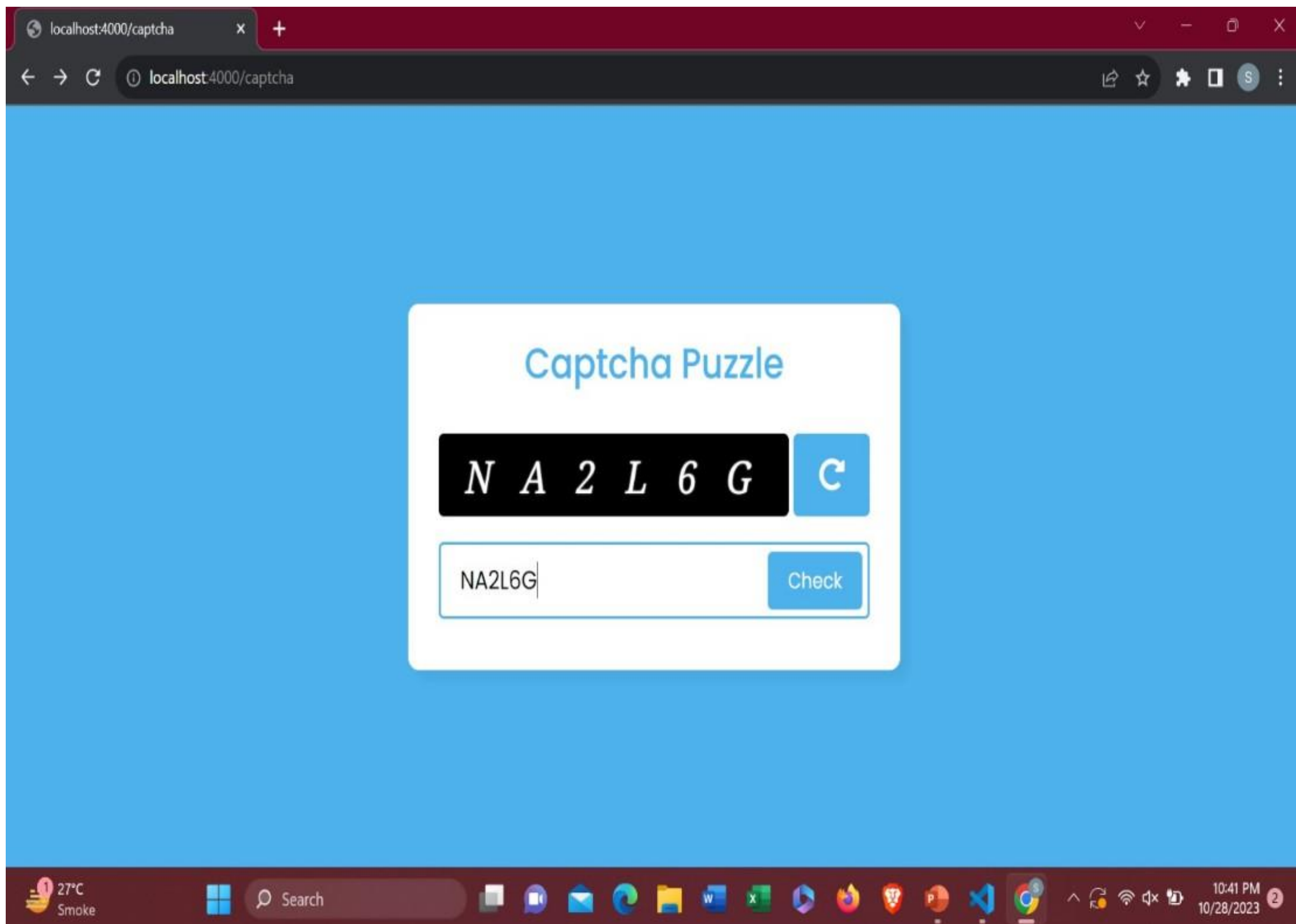
Level 1: Knowledge-Based Authentication(Something YouKnow)

At the first level, users are required to provide something they Know to verify their identity. This typically involves the use of a Password or a personal identification number (PIN). This level is The most common form of authentication and is widely used in Various online services and computer systems. Users must enter Their secret passphrase or code accurately to proceed.



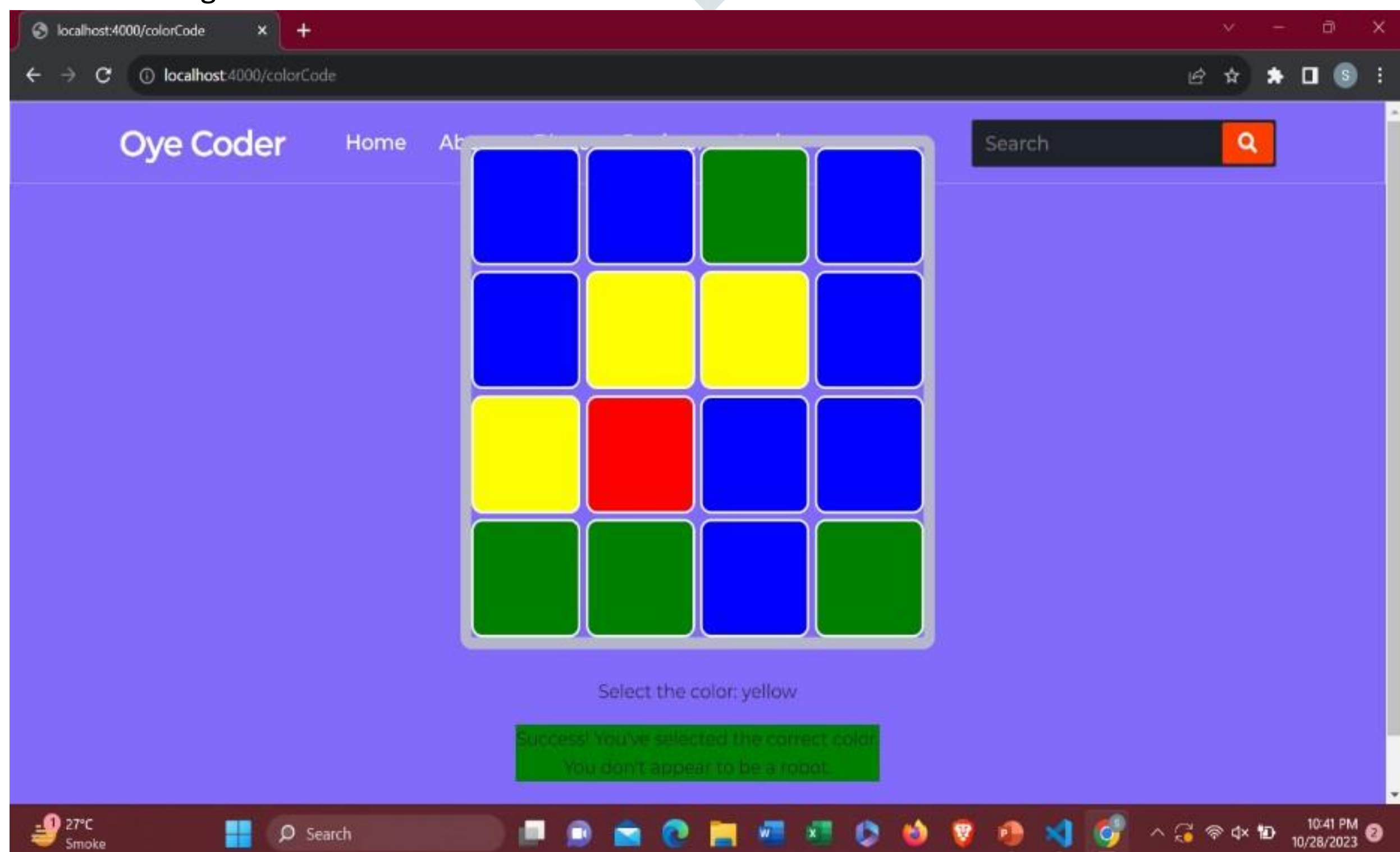
Level 2: Captcha Puzzle

CAPTCHA stands for Completely Automated Public Turing test to tell Computers and Humans Apart. CAPTCHA puzzles are designed to verify that a human is sending requests and to prevent activity like web scraping, credential stuffing, and spam. CAPTCHA offers protection from remote digital entry by making sure only a human being with the right password can access your account. CAPTCHA works because computers can create a distorted image and process a response, but they can't read or solve the problem the way a human must to pass the test.



Level 3: Colour Code

Color-Code Detection In this level user needs to enter the color code that was set during the time of registration. The password. There are total five colors and user needs to pick any three colors in a particular sequence. Then during the time of log in user will have to enter the same code and in the same sequence. The order of colors will always appear in random order, so user must remember the code, hit and try will simply not work as there are total 120 combinations of color in this security check. Where user will have only one chance to fill the correct order, the moment pattern mismatches user will send back to login.



II. REQUIREMENTS

15'' Color Monitor
Windows 8
Dual Core Processor
256 GB Hardware
1 GB RAM
104 Keys Standard Keyboard
Languages – JAVA Swing, MYSQL

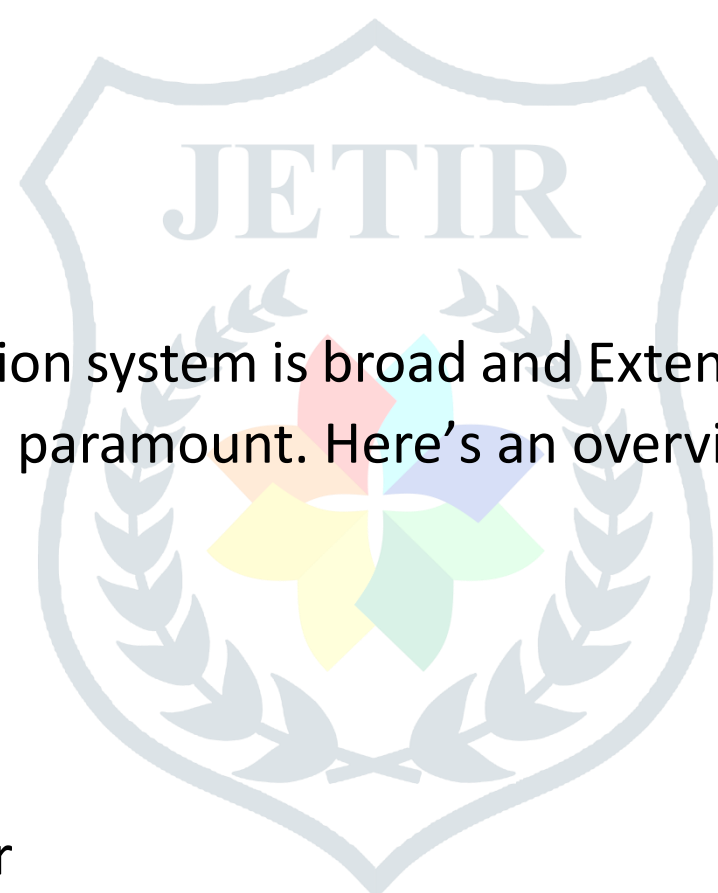
III. CONCLUSION

In conclusion, a three-level password authentication system is a Powerful and versatile approach to enhancing security and Protecting sensitive resources, data, and systems. By combining Knowledge-based, possession-based, and biometric Authentication, this multi-layered system offers several key Advantages, including heightened security, protection against various types of attacks, adaptability to diverse security needs, and granular access control.

IV. FUTURESCOPE

The scope of a three-level authentication system is broad and Extends across various domains and industries where security And access control are paramount. Here's an overview of the Scope of such a system:

Information Security
Network Security
Online Services
Government and Public Sector
Healthcare



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