**Project title:** Secure Notes Management System

**Submitted by:** SYED ZEESHAN SHAH

**Submitted to:** SYED YAWAR ABBAS

**Sap id:** 74498

## Introduction

Today, people store important information in digital form. If data is not protected, anyone can access it. Cyber security helps protect data using login systems and encryption. This project is about creating a secure notes system to protect user information.

## Problem Statement

Many simple note applications do not have strong security. Notes are often not protected properly. Because of this, private data can be accessed by unauthorized users.

## Proposed Solution

This project aims to develop a Secure Notes Tool that ensures the confidentiality of user data. Initially, the user is required to log in by entering a User ID and a Secret Code. After successful authentication, the user can create and save personal notes. All notes are stored in encrypted form to protect sensitive information.

When the user wants to access a saved note, they must re-enter the correct User ID and Secret Code. After verification, the system displays both the encrypted version and the original decrypted version of the note. To enhance security, if the user fails to enter the Secret Code within the given time limit, access to the system is automatically blocked.

## Tools and Technologies Used

- **HTML** – for structure of the web page
- **CSS** – for designing the user interface
- **JavaScript** – for encryption and decryption logic
- **Free API** – for encryption/decryption process
- **Web Browser** – to run the project

## Key Features

- User ID and Secret Code Login
- Secure Note Writing
- Text Encryption and Decryption
- Time-Based Access Control
- Temporary Block for Wrong or Late Login

## Objectives

- To understand basic cyber security
- To learn encryption and decryption
- To protect notes from unauthorized access

## Conclusion

This project is made for educational purposes. It helps in understanding how user authentication and encryption protect private data. The system improves security awareness in a simple way.