

Review On Application Lock For Windows Based System

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Abstract- In Windows Operating systems, one who knows your computer password can use any software in it. This software is windows based application. Using this software, user can restrict other users from using applications installed in the system. This project allows us to lock and unlock the installed software in the computer. It's provides the dual layer locks system. example ISM (ISM is very important Software Used in Government sectors like Tahsil, ZP offices, Courts) just lock ISM using this Software After locking the software only authorized user can use this software after locking the application using this software.

Index Terms- Dual layer security, Face recognition, USB lock

1. INTRODUCTION

In the system, the user who know your System password can access any application installed in the system. There are Certain ways in which operating system to be a Protected from person using the application in your computer, but not able to builds strong security access. The proposed Application Lock for windows based system makes user system more secure. Now days we know that single system can be used by multiple user so there is chances of some confidential data or records can be unintentionally deleted by other user. So, to provide better security and better GUI we implements a software called (Application lock for windows based system). To overcome the limitation of previous application for Microsoft as operating system users. In our system we are mainly dealing with multiple security level which were not available in existing system. We are providing flexibility to user while locking or unlocking application. To deal with strong authentication level we are providing two level security. The purpose of this application is to provide multiple facilities to user along with locking features on system/user applications. Existing system are providing locking facility on limited number of application but using this application user can apply lock multiple applications.

2. LITERATURE REVIEW

At present days we know that single system can be accessed by many user so there is probability that some important data or records can be unintentionally deleted by other users. So to resticates this and keeping away unauthorised user from the system we are going to implement a software called Application Lock. In the process of locking/unlocking user face many problem in previous window system. we implement better reliable and flexible software Application lock for windows based system.

Sub-headings This software provides security for system as well as user applications and increases the protections level of the system. Another issue is that if someone accesses our system or user application and they can delete/corrupt all the data relevant to that application. E.g If we provide lock on ms-word then unsanctioned user can not able to open that application. And through this we can protect our system from that unsanctioned user.

Application lock for windows based system is the software to be designed mainly for windows user to protect the installed application of their system It will not provide any benchmark for user . In this software user can be able to lock the motherboard of the system, operating system as well. In his application there is also a provision for setting the password,

changing the password, and recovering the password as well online as well as offline.

3. GOALS AND OBJECTIVES

3.1. Goals

- Making system more robust and flexible from unsanctioned user.
- Providing the dual level security
- Providing better GUI.
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3.2. Objective

- Lock / Unlock System applications.
- Lock / Unlock User applications.
- Lock / Unlock USB drives.
- Enable / Disable Control panel.
- Enable / Disable Components in Control panel.

4. Motivation

To overcome the failures of previous applications, we are going to implement an application for, Microsoft operating system users. In our system we are mainly focusing with two level security which were not available in existing system we are providing flexibility as well as better GUI to user while locking or unlocking application. To deal with strong authentication level we are providing dual layer security.

The purpose of this application is to provide number of facilities to user along with locking features on system/user applications. Existing system are providing locking facility on limited number of application but using this application user can apply lock on multiple number of applications along with online and offline password recovery.

5. Existing System

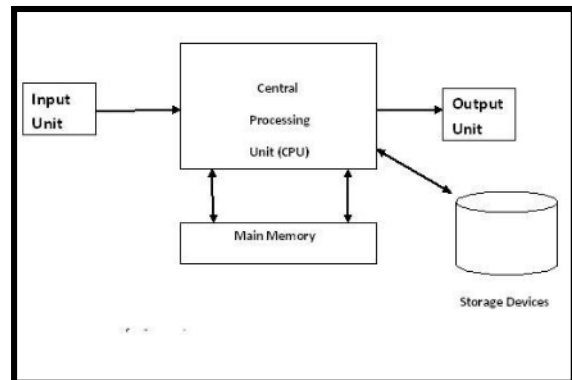


Fig.1. Existing system

In the previous system manufacturer provides locking facilities on few number of user and system application. Existing system have frustrating GUI which is very confusing for common user. We have removed all these drawbacks and provide better user friendly GUI. In existing system we have to lock few applications but by this software system user can use all the features which existing system has as well as device Lock and online and offline password recovery etc.

6. Proposed System

In the previous system manufacturer provides locking facilities on few number of user and system application. Existing system have frustrating GUI which is very confusing for common user. We have removed all these drawbacks and provide better user friendly GUI. In existing system we have to lock few applications but by this software system user can use all the features which existing system has as well as device Lock and online and offline password recovery etc.

7. System Architecture

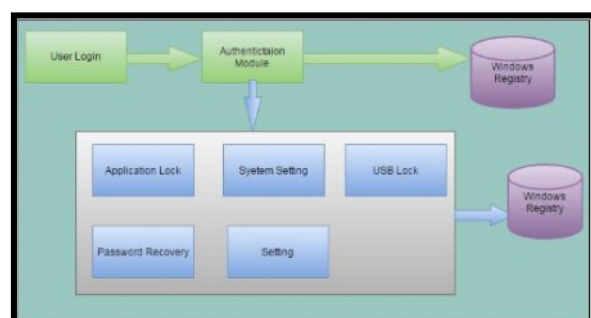


Fig.2. System Architecture

Software architecture refers to the high level structures of a software system, the discipline of creating such structures, and the documentation of these structures. These structures are needed to reason about the software system. Each structure comprises software elements, relations among them, and properties of both elements and relations. The architecture of a software system is a metaphor, analogous to the architecture of a building.

Software architecture is about making fundamental structural choices which are costly to change once implemented. Software architecture choices include specific structural options from possibilities in the design of software. For example, the systems that controlled the space shuttle launch vehicle had the requirement of being very fast and very reliable. Therefore, an appropriate real-time computing language would need to be chosen. Additionally, to satisfy the need for reliability the choice could be made to have multiple redundant and independently produced copies of the program, and to run these copies on independent hardware while cross-checking results. Fig.1 shows the Architecture diagram of Application Lock for Windows Based System. In which overall system is described and modules of the system are shown. We are using Windows Registry as a storage element in our project. The Windows Registry is a hierarchical database that stores configuration settings and options on Microsoft Windows operating systems. In general we see that lot of project developer prefer to use the database as storage in their project but in this project our group mate decide to use the registry rather than database due to following reasons:

- High security level of Registry.
- Doesnot need of any external additional Software.
- Maintain protection to the storage the data in Registry is very easy as compare to any other database.

In registration process user should fill the information about himself with accurate information. This information may provide help in further operation like password recovery and help from manufacturer also. To continue further user should fill the complete form and click on next button. This form also provides the option of reset the whole information. This is the next registration form which is

used to set the password in the form of image. And this image password will be used by system for the authentication purpose. When user wants to use Application Lock For Windows Based System Software, they must go through the authentication process. And whatever details entered in authentication process are compared with the details exists in the registry and accordingly user will be checked as authorized or unauthorized user.

Following are the different modules of the: Application lock for windows based system:-

7.1. Registration Module :

In registration process user should fill the information about himself with accurate information. This information may provide help in further operation like password recovery and help from manufacturer also. To continue further user should fill the complete form and click on next button. In this here is login account like the gmail account form.

To continue further registration form user should fill the complete form and click on next button. This form also provides the option of reset the whole information. This is the next registration form which is used to set the password in the form of image. And this image password used by this software for the authentication purpose. As in last registration form user select the image password in the similar manner user must enter the text password and confirm that password. And this text password is used by this software as the second level authentication of user.

7.2 . Main window:

This is the main interfacing window of this software by using above provided option and menus user can access the whole software working and perform the functionality which is desired by the user. For locking the application, locking USB drive, getting the system information, setting and Many more. Only authorized user who completed the registration and login process are able to view this window and they can perform required operations.

7.3. System information Module :

This module will provide the information related to the operating system and motherboard and all relevant information about host. And it is very useful module as the user point of view to get the information about the system and its configuration. Different buttons

are provided to user to make their choice for accessing the information about the machine.

7.4. Application Lock Module:

It is the main part of this software by using this user can able to lock the particular application as per the user requirement. For this purpose only user should click on the icon provided on window. And also this window provides the partitioning of the application into user application and system application.

7.5. USB Lock Module:

It is the special feature provided by this software to lock the USB drives. For locking the USB drive only user should click on the disable USB drive button and after that on ok button. The main advantage of this module is that it can be one of the easy ways to lock the USB drive as compare to lock the USB drive by using CMOS setup.

7.6 .System Setting module:

System setting module is the very interesting module of the project. This module is used to lock the various features provided by the operating system like control panel, run prompt, registry and many more. This feature make the system more secure which is the ultimate goal of this software.

7.7 Password Recovery Module:

It is most important module In his module user can recover his password in case of forgetting the his password due to some reason. It can be done via two ways select the three images and their respected position for using as the password.

8. FUTURE SCOPE

Further enhancements can be done to the Application Lock for Windows based System like it can be fully compatible with UNIX like operating system but in that scenario windows registry must be replaced with UNIX file system. Also to identify particular user individually authentication mechanisms like face recognition or speech recognition can be used to increase the security level and the machine learning

concept. Along with application lock features like drive lock and file lock can also be implemented. Password recovery system could be made more reliable

9. CONCLUSION

This Project mainly focuses on security issues of windows operating system by providing the various lock to the system. It's providing the dual level lock system that is Image and Text password. It's also provided the online and offline password recovery so that user can easily access the system..

10. References

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