

# Image Based Vehicle Locking and Starting System

Prerna K. Jadhav<sup>1</sup> Jyoti H. Ghadwaje<sup>2</sup> Vasanti S. Mali<sup>3</sup> Prof. Mangesh T. Nikam<sup>4</sup>

<sup>1,2,3</sup>Student <sup>4</sup>Assistant Professor

<sup>1,2,3,4</sup>Department of Electronic & Telecommunication Engineering

<sup>1,2,3,4</sup>Sandip Foundation, SIEM, Nashik, India

*Abstract*— Image based password genuine for illiterates with touch screen interfacing provides an images based security system, which can be invest in poultry forms, houses and all kinds of domestic and industrial application. The main direction of this paper is to provide a security system for uneducated. This system provides convenient environment for the users with a kind of images interaction. Here the password need not be a cord of character it can use few images; this may be easy for the illiterate to remember. This device makes use of a touch screen sensor based distinctly LCD which makes the things still easier. This paper gives us the exposure about how to conveniently make use of the touch screen technology to interface with the appliances in our practical life. It can also be managed very easily with the hand so can be used even by very old people and also by the illiterates. Touch screens provide fast approach to any and all types of digital media, with no text-bound interface getting in the way. Faster input can mean better benefit. Using a touch interface can effectively increase operator accuracy, reduce training time, and improve complete operational efficiencies, thus keeping costs down, a properly designed touch interface can upgrade each operator's precision. Touch screens are practical in automation, which has become even simpler with touch screen technology.

**Key words:** Image Based Password, Touch Screen Interface, Graphical LCD

## I. INTRODUCTION

Image based password certification is most important topics in security password. Security plays a vital role in protecting resources against unjustified access. There are numerous ways of authenticating a person. Authentication systems based on text passwords are broadly used but they can be easily crack and also difficult to remember. image based authentication system is less sensitive to attacks. The most common method used for authentication is text password that is the blend of letters and sting of character. But normally user selected a simple password because they can be easily remember at the time of login . Then Simple and short password is easy to remembered while random and tedious passwords are assured but hard to remember. This paper provides security to important information of user by using image based identification system. This system is useful only for those peoples who are not able to remind passwords .And someone have more number of identification to avoid the confusion among password this system is very useful. Here the password need not be a cord of characters. It can be few images this may be easy for the illiterates and those who are not remember their password. This system supply user-friendly environment for the users with a kind of image cooperation. The human brain is more adept in recalling a previously seen image than a previously seen text. It can also be managed very easily there for this system is open to all illiterates even by very old people. Image based certification is based on user's successful

identification of his image key password. After the user name is sent to the authentication width, It displays a set of image blocks that are randomly arranged. The user has to select a sequence of image, that sequence of image is nothing but the hidden image in the form of password to get successful access. It acknowledge by displaying an image which the purpose of this paper is to present the authentication process which is simple enough and cost effective.

## II. LITERATURE SURVEY

The research "V.SRIDHAR" have suggested in International Journal of Science, Engineering and Technology Research (IJSETR) Studies that by this paper proposes Image Based Password Authentication for Illiterates with Touchscreen.

The research V.Sridhar<sup>1</sup> supporting professor, ECE, Vidya Jyothi Institute of Technology, Hyderabad, India. He research in his paper the paper aims in developing a system which is very helpful for uneducated in secure accessing, who are not able to remind passwords. Image based password authentication for uneducated people with touch screen interfacing provides an image based security system, which can be establish in poultry forms, houses and all kinds of domestic and industrial applications. The main intention of this paper is to provide a security system for illiterates.

This system provides user-friendly surrounding for the users with a kind of image interaction. Here the password need not be a string of quality it can use few images this may be easy for the uneducated to remember. This device makes use of a touch screen sensor which makes the things still easier. This paper gives us the disclosure about how to efficiently make use of the touch screen technology to interface with the utilization in our practical life. It can also be operated very easily with the hand so can be used even by very old people and also by the illiterates.[1]

The research "SusanWiedenbeck<sup>1</sup>, Jean-Camille Birget<sup>2</sup>, Alex Brodskiy Nasir Memon<sup>3</sup>" have suggested in International Journal of Science, Engineering and Technology Research (IJSETR) Studies that by This paper proposes Authentication Using Graphical Passwords: Effects of Tolerance and Image Choice The research Jim Waters College of IST Drexel University Philadelphia<sup>1</sup>, Computer Science Department Rutgers University Camden,NJ<sup>2</sup>,Computer Science Department Polytechnic University Brooklyn, NY<sup>3</sup> He research in his paper Security Practitioners and researchers have made strides in secure systems and, correspondingly, individual users' digital assets. However, the problem appear that, until recently, security was treated wholly as a technical problem – the system user was not factored into the equation. Users cooperate with security technologies either passively or actively. For passive use understandability may be comfortable for users. For active use people need much

more from their security solutions: ease of use, memorable, productive, effectiveness and satisfaction. Today there is an increasing resignation that security issues are also fundamentally human computer interaction issues. Authentication is the process of complete whether a user should be allowed access to a particular system or resource. It is a critical area of security research and proceeding. Alphanumeric passwords are used widely for authentication, but other methods are also convenient today, including biometrics and smart cards. However, there are problems of these alternative technologies. Biometrics increment privacy concerns and smart cards usually need a PIN because cards can be lost. As a result, passwords are still effective and are expected to continue to remain so for some time.

### III. METHODOLOGY

The user selects a image that are easy to remind such as watch, fish and cup of tea. In this example, the user would enter different images. Any time certification is required, the user is presented with a randomly generated gallery of images. The user authenticates analyze which images on the gallery fit their secret authentication password section. In this project the micro controller is the heart of system. All operation is perform according to micro controller. It has many input and output seaport which is connected to control unit. Touch screens provide fast approach to all types of digital media, using graphical LCD the image is displayed. Using a touch interface can effectively increase operator efficiency. It reduce training time, and improve overall operational efficiencies, there for the system becomes simple and keep amount down. A properly designed touch interface can improve each operator's efficiency. The image input from the touch screen is supply to controller and provides access to the user if the password received is correct.

#### A. Touch Screen

A touch screen is a two dimensional sensing device that is constructed of two sheets of material separated slightly by spacers. A common structure is a sheet of glass providing a stable bottom layer and a sheet of polyethylene as a flexible top layer

The two sheets are coated with a resistive substance, usually a metal compound called Indium tin Oxide(ITO). The ITO is thinly and uniformly sputtered onto to both the glass and the PET layer. Tiny bumps called spacer dots are then added to the glass side, on top of the resistive ITO covering, to keep the PET film from sagging causing and accidental or false touch

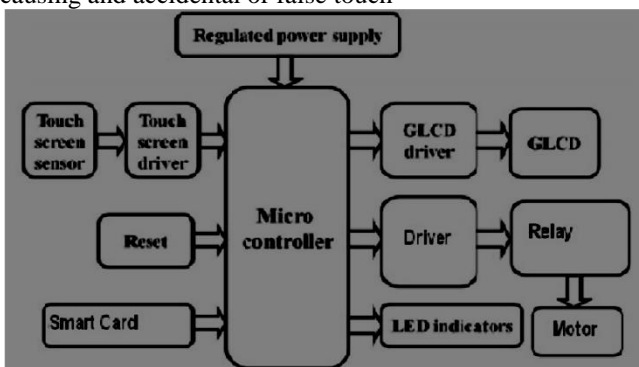


Fig. 1: Block Diagram

#### B. Sensors

A resistive touch sensor, in comparison to a capacitive touch sensor, consists of two layers not in contact with each other but separated by thin spaces. The sensor responds when pressure causes the layers to touch. The sensor consists of an outside flexible layer that is coated on the inside with a conductor, a non-conductive separator of mica or silica, and an inside supporting layer of glass, which is also coated with a conductor. Resistive sensors are the most common form of touch sensors and are used for distance and pressure applications. They can be operated with finger touch or mechanical stylus. Unlike capacitive touch alternatives, resistive touchscreens cannot support multi-touch technology. In this case, a printed circuit pattern is located around the outside of the viewing area. When the outside layer is pressed against the inside layer, the resulting voltage is measurable in multiple directions. When comparing these voltages to the starting voltage, the point at which the touch took place can be calculated. Resistive sensors are simple and relatively inexpensive. One potential failure is due to the flex required to push the surfaces together. The existence of two layers also results in a loss of brightness between 10 and 20 percent. Designers have recently improved the wear and chemical resistance of resistive sensors by improving the flexible glass for the outer layer.

### IV. CONCLUSION

Image based Password Authentication arrangement based on color image gallery here the user having the choice to select minimum one and maximum N number of color image slab, therefore the user is having the flexibility to select the any kind of password i.e series of selecting images from gallery. Security is achieved because only legal user is known that what kind of color image block selected and in what Image-based authentication techniques, although currently in their inception, might have a wider applicability in future common security goal in password based authentication systems is to maximize the effective password . We recognize it more user-friendly technique that helps to increase the password quality extremely correlated to a text-based approach. In this paper we have proposed simple secure authentication technique issues of how better is take care of the available information.

#### ACKNOWLEDGMENT

All respected and gratitude, we would like to thanks all people who have helped us directly or indirectly for the completion of this paper work. We express our truly gratitude towards Prof. M.T. Nikam for guiding us to understand the work conceptually and also for his constant incitement to complete this project work on "Image Based Vehicle Locking and Starting System".

We are also expressing our thanks to Dr. D. P. Patil head of the department of Electronic and Telecommunication Engineering for providing important information and required resources. With deep sense of gratitude we thank to our Principal Dr. M. P. Ray and Management of the Sandip Foundation for providing all necessary facilities and their constant encouragement and support.

Last but not the least sincere thanks to all staff members of Electronic and Tele-communication Engineering Department for providing important information and required resources. We are ending this acknowledgement with deep indebtedness to our friend who has helped us.

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