SAFETY PROBLEMS IN ONLINE TEST SYSTEM AND A CASE STUDY

Öğr. Gör. Kadir Keskin
İstanbul Aydın Üniversitesi
kadirkeskin@aydin.edu.tr

Prof. Dr. Ali Güneş
İstanbul Aydın Üniversitesi
aligunes@aydin.edu.tr

Abstract

This project consists of three main sections. These sections are as follows respectively:

- Online test systems and automatic identification technologies,
- Biometric recognition technology and fingerprint recognition technology (PİTT) section were discussed theoretically,
- Application section is about fingerprint application software

In the theoretical section, automatic and biometric recognition technologies with online exam system are mentioned, after that applications of fingerprint applications from the past to the present day were discussed. And in the development process, PITT was mentioned where it will be used in the future. Necessary software and hardware requirements for studies in the application section and system to be established according to the type of the application were explained. In this thesis "secure online exam entry" application is made. The project has been developed in the C # language in Visual Studio platform 2010.NET . Application software allows logging in securely with using fingerprint reader with PITT technology. According to this software, users swipe a fingerprint through fingerprint reader, then the examination screen appears. In this screen, user have to login with username and password to access the test screen. The user controls the test from here. If there is a user-defined test, user complete this test and then log out of the exam. If user is a administrator, user can perform a lot of operations such as assign a exam, determining the exam date, adding/editing questions, etc.

PITT's first reason for preference are that it is an one of the most secure systems and it is the easiest to use in biometric systems. Additionally, due to the rapid development of PITT, it is among the technologies of the future.

Key Words: Pitt, Online Examination System, Biometric Systems, 2010.NET Visual Studio C #.