THE APPLICATION OF INDIVIDUAL RECOGNITION SYSTEM BASED ON FINGERPRINT ON DEVELOPMENT AUTOMATED PORTAL

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Abstract

Development of science and technology has provided an enormous impact in human life. Likewise with biometrics, which is a study to identify individuals based on physiological characteristics possessed by the individual, such as face, retina, voice, palms, and fingerprints. Fingerprints of every person is unique, different from one another. In this final project, an automated portal simulation system was developed to control the entry and exit of motor vehicles in the parking area based on fingerprint of user/owner of that motor vehicle. This automated portal system is used to control the vehicle, especially on the exit with the process of matching fingerprints obtained by the user/owner of motor vehicles at the time of entry. Based on the result of experiments performed on this automated portal system is successfully created and functioning properly. This is shown by the portal simulation has been running perfectly in accordance with the instruction given to program application. In addition, based on trial results for the 40 users that have been made on this automated portal system with each user’s fingerprints identification as much as 5 times on the entry and 5 times on the exit, showing the system can identify with a high success rate, that is equal to 100%.

Key : biometrics, individual recognition, fingerprint, automated portal system, VB.NET
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