ACCESS CONTROL SYSTEM

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A report is submitted to the department of computer science,
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Dedication

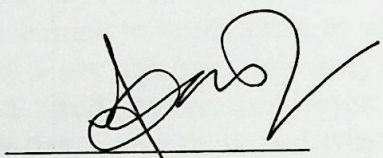
This application is dedicated to my Parents, who taught me lots over the years. Whatever I am I am partly because of them and they are the joys of my life.

Acknowledgment

It is pleasure to acknowledge our software application to the many people involved, directly or indirectly, in the production of this application. It has also benefited enormously from the comments of, and discussions with, numerous friends and reviewers. We wish to acknowledge Mr. Fazal-e-Wahab Head of Computer Science Department BIMCS Islamabad for his support and encouragement. We are also thankful to our supervisor Mr. Jehenzeb Ahmed for his expertise, guidance and interest in our software. We would particularly likes to thanks IT manager of Informatics Gallery Mr. Arif Tanveer and Senior Database Manager Mr. Imran Wani for numerous illuminating conversation and much stimulating correspondence. Without the encouragement and support of all these people throughout this project we would not be able to do this project.

Certificate

We accept the work contained in this report as a confirming to the required standard for the partial fulfillment of the degree of BCS in the subject of Computer Science.



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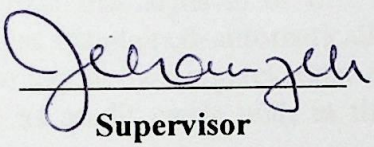

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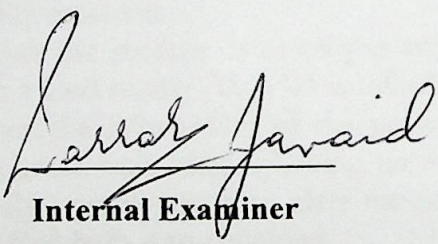

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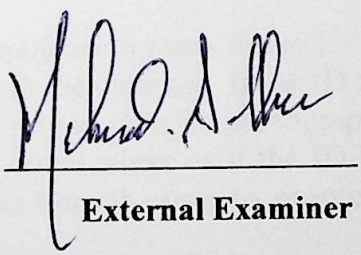

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Abstract

The Access Control System (ACS) is a comprehensive card access control and monitoring system that provides a dose tracking system and personnel control for restricted area, entries and exits. ACS is fully compatible and integeratable with major brands of electronic hardware and PC based readers. It is easy to use, administer and provides the highest possible level of control and data integrity.

ACS is a complete application to automate the recording of students, employees and visitors to a site (Bahria University). Database of each person that signs in or out is maintained. Students and employees sign in and out times are maintained automatically when ever they swipe their card where as visitor data is to be key in by the gatekeeper at the entrance. Further more the student can use their card as credit cards with in the University cafeteria.

Whenever the student or employee swipes his/her card the application reads in the ID's through a card reader. This ID is tallied with the ID's present in the database. If the ID is valid then the information of the person is displayed on the screen with its photograph and the green bulb starts glowing until the laser beam is cut down where as if the ID is invalid the system gives an alert message, needs a key stroke from the user to proceed and the Red bulb starts blinking.

Card reader is attached to the computer through RS-232 serial port where as a circuitry is attached to the computer through the parallel port on which red and green bulbs are fixed.

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