

Final Year Project Report

B-CAS

A low-cost Biometric Class Attendance System



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Session
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Dedication

“We dedicate our work to our family and friends, a special feeling of gratitude to our loving parents. Without their cooperation it would have not been possible

We also dedicate this dissertation to our teachers who have supported us throughout the process. We will always appreciate all they have done and how they supported us.”

Final Approval

Panel of Examiners

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Acknowledgment

Every work accomplished is a pleasure – a sense of satisfaction. However a number of people always motivate, criticize and appreciate a work with their objective ideas and opinions, hence we would like to use this opportunity thanks to all, who have directly or indirectly helped us to accomplish this project.

Firstly I would like to thank Mr. Bilal Hassan (Project Adviser, Asst. Professor SST.UMT) without whose support this project could not be completed. Next we would like to thank HOD computer science department Dr. Tahir Ijaz, Dean School of science and technology Dr. _____ and all those who gave their valuable time and feedback to complete this project. We would also like to thank or institute, University of Management and Technology for supporting us with resources, which beyond any doubt have helped us.

For the unwavering moral, emotional and financial support of the proponents family and friends; above all, utmost appreciation to the Allah Almighty for the divine intervention in this academic endeavor.

The Project Team

Project Title

Biometric Class Attendance System (B-CAS)

Objectives

The basic objective of our project is to create a low-cost solution for biometric attendance marking system that should have an affordable price and should make better use of existing online resources, such as Servers etc. of the institution.

- Marking of attendance through Biometric Device
- Integration with existing system.
- Online management of registrations, courses and attendance.

Supervised by

Sir Bilal Hassan

Dr. Shoaib Farooq

Starting Date

September, 2014

Completion Date

August, 2015

Tools Used

The tools and technologies that are used in our project are:

- ❖ PHP 5.1
- ❖ XAMP/WAMP
- ❖ MySQL Server
- ❖ Microsoft Visual Studio 2013
- ❖ Dreamweaver
- ❖ HTML
- ❖ CSS
- ❖ C#

Operating Systems:

Client Side:

Windows 7(with .net 4.0 installed) or higher

Server Side:

Any System (Windows or Linux) installed with Apache Server and MySQL Server.

Abstract

Biometric Class Attendance System (B-CAS) will solve the daily hectic problem of manual attendance of the students. Currently, many automated attendance systems are available in market that marks attendance through fingerprint scan, but their high prices restrains the institutions from upgrading their manual attendance systems. Currently, teachers take attendance of the students by calling their names or roll numbers, but this method has many problems. Some student call attendance of their friends who are not present in the class at that time or teachers usually lost their attendance sheets. So in order to solve these kinds of problems, this system will help to manage attendance by marking attendance through fingerprint scan through easily-available, low cost fingerprint scanner. Students just have to put their thumb on device to get their attendance marked. If the student's record is present in the database then device will produce a sound to show that student is being marked as "Present" otherwise student is not registered in that particular class. System will be web-based and all attendance records will be stored online. In this way every student will be graded at the end of the day either he/she is short attendance or percentage of the attendance. Every class room will have a session to open for particular class/section. In class every teacher will just open the session for particular section to mark attendance and students will get marked their attendance by swiping their fingers on fingerprint recognition device.

PREFACE

“Noble is the mission of Prophet, selected to proclaim the Message of Allah, the Lord and Cherisher of all His Creation, Whose measureless Bounties include the instruction of man In new and ever new knowledge. But alas for man! He fancies himself self-sufficient, Turns away from the Path, and misleads others, but nothing is hidden from Allah. He will bring all untruth and sin and rebellion to Judgment, and subdue all evil. The righteous bow in adoration to Allah, and draw closer to Him.”

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