Full Length Article

Students Monitoring System

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ABSTRACT: Students monitoring system is for managing the documents such as bonafide certificate, gate pass, on-duty form and leave form for students with signatures of higher authorities. From the student login, the requests are being filled by the students and send to top officials for authorization. From the Administrator login, the corresponding request forms are being examined and approved. The approved requests and corresponding forms are sending back to the students E-mail and it doesn't need any physical authorization because it is digitally signed and generated by the computer. After that the student's requests are analyzed and examined by the administrator then authorization that is signature is merged with the request form. Thus the web application results in secure students requests processing with corresponding privileges for both top official and students. Various reports are generated dynamically by the administrative users for their further reference. Through this application, the concerns can process the information with better security.

1 Introduction

A digital signature is an electronic form of a signature that can be used to authenticate the identity of the sender of a message or the signer of a document, and also ensure that the original content of the message document that has been sent is unchanged. Digital signatures are easily transportable and cannot be imitated by someone else. The ability to ensure that the original signed message arrived means that the sender cannot easily disclaim it later. Approval signatures on a document can be used in your organization's business workflow. They help to optimize your organization's approval procedure. The process involves capturing approvals made by you and other individuals and embedding them within the document.

2 Literature Survey

The system like Barcode system, Smart-card and Bio-metric technology are present. As compare to them RFID is faster than barcode and smart card system and cheaper than bio-metric system, Hence we preferred to the RFID for our Project. Our project is Monitoring of Student using RFID. RFID stands for Radio Frequency Identification and Detection. In this we are using RFID reader and passive RFID chips. Reader is located on fixed location sends signal to passive RFID chip detected in range of reader. Chip re-transmits the acknowledgement signal with its unique Identifier code, hence chip is identified. Also, a single reader can identify many no of chips in very short period of time. So, we are using these properties of RFID reader and tag to monitor the student. We are also going to include the some important and interesting modules to make the system better, such as webcam module for security

3 Existing System

In the existing system, managing and authorizing the students request forms is processed manually. It causes loss of records may happen. And also the clarification and verification of those requested records takes lot of time and requires more manpower efforts. And also the students may misuse the requests and authorized forms. Through this manual approach, cannot track all the students request details which includes both approved and

rejected forms. Efficiency is less in authorizing the documents. The manual approach reduces the security aspects.

4 Proposed System

The proposed system is managing documents through software in online environment. The higher officials can approve all the documents easily. The requests are being authorized digitally and it does not require any physical authentication. This method simplifies the security mechanism since every data is stored into the server database in a secured manner. This method is very helpful in various places where documents content are more confidential. The proposed approach increases the security and it is less time consuming in examine and analyze the student's requests. Efficiency is more and easier in authorizing the documents. Referencing the documents in future is simple since they are stored in database which can be accessed everywhere. Digitally approved requests, so no manpower effort is needed.

5 Module Descriptions

The system is computerized Digital Signature Management. Through this system, easily maintain the activities of college. The project is designed using Microsoft Visual Studio.Net 2005 as front end, which works in .Net framework version 2.0. The coding language used is Visual Basic .Net. The back end used is Microsoft SQL Server 2000.It consists of Admin, Staff, Student, Gate modules.

Admin module: This module contains add department, add staff, add student, view department, view staff, view students, view request forms.

Staff module: This module contains view department, view staffs, view students, view request, approve request forms.
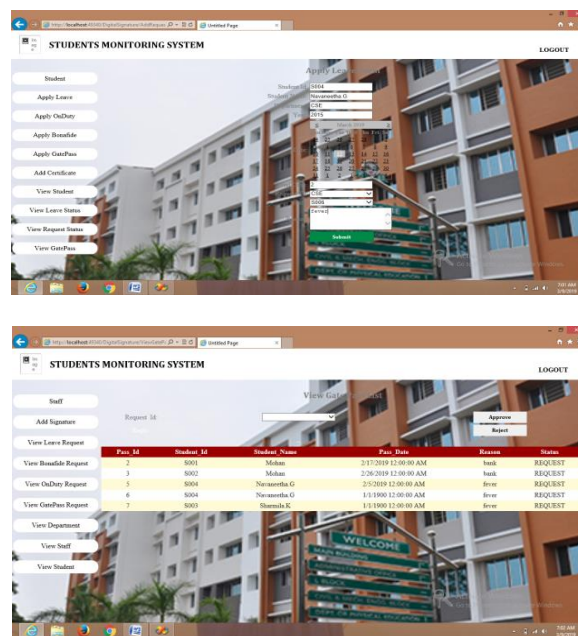
Student module: This module contains apply bonafide, apply leave, view status, view students forms.

Gate module: This module contains view gate pass.

6 Screen Shot

7 Conclusions

In this system, managing documents is based upon digital siganature. So the requests are being authorized digitally and it does not require any physical authentication. This method simplifies the security mechanism since every data is stored into the server database in a secured manner. Referencing the documents in future is simple since they are stored in database which can be accessed everywhere.

References

[1] HerdawatiebintiAbdulKadir, SitiNurulAqmariahbinti MohdKanafiah, MohdHelmy bin Abd. Wahab,ZarinaTukiran and Zulidabte Abdul Kadir, "Online students supervision (OSS) systems using passive RFID" 2008 IEEE paper

[2] HerdawatieBt Abdul Kadir, MohdHelmyAbd. Wahab and SitiNurulAqmariahBtMohdKanafiah "Boarding School Students Monitoring Systems (EID) Using Radio Frequency Identification" "Faculty of Electrical and Electronic Engineering,University Tun Hussein Onn Malaysia, 86400 Parit Raja, BatuPahat, Johor,

Mlaysia, Journal of Social Sciences 5(3):206-211 2009

[3] Abdul Kadir1, Mohd Helmy Abd Wah Ab2, Zarina Tukiran3, Ariffin AbdulMutalib4 "Tracking Student Movement using Active RFIDHERDAWATIE" 1,2,3Faculty of Electrical and ElectronicEngineering Universiti Tun Hussein Onn Malaysia P.O. Box 101, Pt. Raja, Batu Pahat, Johor,ISSN: 1790-5117,ISBN: 978-960-474-166-3MALAYSIA

[4] A. R. Al-Ali, Fadi A. Aloul, Nada R. Aji, Amin A. Al-Zarouni, Nassar H. Fakhro "Mobile RFID Tracking System" Computer Engineering Department American University of Sharjah, UAE

[5] A. Kassem (IEEE Member), M. Hamad (IEEE Member), Z. Chalhoub, and S. EI Dahdaah, "An RFID Attendance and Monitoring System for UniversityApplications "Department ofElectrical and computer and communication Engineering Notre Dame University Louaize Zouk Mosbeh,978-1-4244-8157-6/102010.