

DEVELOPING PMSAS TO MONITOR POLYTECHNIC
STUDENT ATTENDANCE (SUBJECT TO STANDARD
PROCEDURE)

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UNIVERSITI UTARA MALAYSIA
2011



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ABSTRAK

Fokus kajian ini adalah untuk membangunkan Sistem Pemantauan Kehadiran Pelajar Politeknik yang dikenali sebagai PMSAS. Ianya dibina menggunakan teknologi intranet bagi melaksanakan pencatatan dan pelaporan kehadiran pelajar. Sistem ini dapat memudahkan pensyarah dalam merekod, menyimpan, mencapai dan melaporkan kehadiran pelajar pada masa nyata dengan lebih berkesan dan sistematik untuk memastikan pemantauan maklumat penting tentang kehadiran dan komitmen pelajar dalam menghadiri kelas. PMSAS dibangunkan telah menggunakan metodologi *Rational Unified Process (RUP)* dan antaramuka pengguna bergrafiknya dibangunkan dengan menggunakan Ms Access 2007 dan Pengaturcaraan Visual Basic bagi membolehkan pangkalan datanya lebih mudah diakses. Pembangunan prototaip ini berinspirasi kajian yang telah dibuat di Jabatan Perdagangan PTSS di mana sistem semasa yang diterapkan sangat rentan terhadap kesalahan kecuaiian manusia di samping fakta dari kajian terdahulu menyatakan bahawa rekod kehadiran pelajar adalah salah satu elemen terpenting yang mencerminkan pencapaian akademik pelajar. Ini membuktikan bahawa sistem yang lebih sistematik dan berevolusi amat diperlukan bagi meningkatkan proses pemantauan kehadiran. Penerimaan pengguna terhadap sistem ini telah dinilai berdasarkan soalan soal selidik terhadap para pensyarah di Jabatan Perdagangan PTSS di mana keputusan penilaian telah menunjukkan pengguna bersetuju dan menerima sistem ini kerana keberkesanan penggunaannya. Kesimpulannya, sistem ini amat berpotensi membantu para pensyarah mengurus dan memantau kehadiran pelajar dalam rangka mematuhi prosedur kualiti PTSS-AK-PK-PPP-05-05 yang telah ditetapkan.

ABSTRACT

This study focuses on the development of a Polytechnic Monitoring Student Attendance System or known as PMSAS which has been built using the intranet technology to cater the recording and reporting of the student's attendances. It can be easily accessed by the lecturers and the reports can be generated in real time processing. Besides the way of taking, storing and reporting become easier and more systematically, thus, providing invaluable information about the students' commitments in attending the classes. In order to develop this system, Rational Unified Process (RUP) methodology is applied and the Graphical User Interface (GUI) was developed using Ms Access 2007 and Visual Basic programming to make the database easier to access. The development of this prototype system is inspired by the feasibility study carried out at PTSS Commerce Department where the current practice implementation is becoming more prone to human errors and frauds, also owing to the fact that the students' attendance records are one of the important elements that reflect their academic achievements. From the analysis done, it has revealed that a more systematic and revolutionary system is indeed needed to be reinforced in order to improve the process of recording and reporting the attendances. User acceptance towards this system is gathered by distribution a whole set of questionnaire to PTSS Commerce Department's lecturer. The overall results of this study indicate that user agreed and accept to use this system because of the effectiveness of its usage. In conclusion, this system has a great potential to help the lecturers to manage and monitor student attendance and most importantly to comply with the quality procedure of PTSS-AK-PK-PPP-05-05.

DEDICATION

Alhamdulillah...

All praises and gracious are due to Allah who has arranged all the affairs of life.

I dedicate this success especially to:

My beloved and cherished husband, Surizan Romli

The irreplaceable dear mother Hajjah Sofiah Haji Wahab

Apples of my eyes, Israt Aisyah, Hilman Husaini and the one soon to be born

All of you are my pillar of strength, keep on supporting me and lift me up when I am down without fail. Please forgive all my weaknesses as there are so many sacrifices, troubles and inconvenience imposed on each and every one of you along this journey of success. It is true as the old saying goes, “we gain some we lose some”. There is always reason behind every occurrence and there is always going to be bumpy road here and there. May Allah bless all of you and rewards your kindness and generosity. I truly appreciate and love each of you sincerely from my deepest heart.

ACKNOWLEDGEMENT

All praises to Allah because of His blessing bestowed on me, at last I manage to finish this prototype and master project. I would like to dedicate my endless gratitude to my project supervisor, Dr. Syazwan Abdullah for all his efforts in guiding, advising and teaching me all this while. Your deeds will forever be appreciated and remembered as all of these are impossible without your assistance. The same goes to Puan Azida Zainol, my project evaluator, whom I owe a sincere gratitude, for all the helpful and supportive comments throughout the project.

Apart from that, to all the staff of Commerce Department, PTSS, I am everlasting grateful for your willingness and cooperation in the process of data collection up until the evaluation process of PMSAS prototype. Not to forget, to all the Committee Members of Quality Unit who are willing to provide information regarding quality procedures needed and also to College of Arts and Sciences, Universiti Utara Malaysia staff for their top notch cooperation, I can never repay your help and kindness.

On top of that, my special thanks to my mother and family for their never ending supports in all aspects. All of you were always there when I am in need and through my thick and thin and for that, I can never thank you enough. Last but not least, I am truly grateful to all my MSc.(IT) comrades who help me a lot and went through all sorts of troubles all way through until the end of this master program especially Zuriani. As for my relatives who are eternally in my heart, Kak Cik and family and the special persons who constantly pray for my best, Aini Hazrin and Zetty, all of you will never be forgotten and I am so thankful for all you have done for me.

Last but not least, for those who are involved in this master project be it directly or indirectly, all your supports whether it is materially or morally, I am indebted to you and all your aids are really appreciated.

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LIST OF ABBREVIATIONS

PTSS	Politeknik Tuanku Syed Sirajuddin
PMSAS	Polytechnic Monitoring Student Attendance System
SIRIM	Standards and Industrial Research Institute of Malaysia
RUP	Rational Unified Process
UML	Unified Modeling Language
SDLC	System Development Life Cycle
QA	Quality Assurance
MAMPU	Malaysian Administrative Modernization and Management Planning Unit
MS ISO 9001	Quality Systems - Model for Quality Assurance In Design, Development, Production, Installation and Servicing

CHAPTER 1

INTRODUCTION

1.1 Background

Quality assurance (QA) processes vary depending on the educational design and delivery methods of the institution but must fundamentally be concerned with the iterative use of feedback information from a range of sources, including admissions data, examinations data, student progress statistics, survey data, interview data, tutor data, graduate employment information, and employer views. Quality assurance has been the subject of much debate in Malaysia higher education over the past years and polytechnic have been subject to both external assessments of teaching quality focuses on particular subjects and external academic audits, which address the workings of polytechnics as a whole. Polytechnic Monitoring Student Attendance System (PMSAS) for example is one of a system to be developed for daily student attendance in polytechnic higher education institution in order to enhance the QA compliance of Politeknik Tuanku Syed Sirajuddin. It facilitates to access the attendance information of a particular student in a particular class. This system will also help in evaluating attendance eligibility criteria of a student and manage all the documents effectively.

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