

THE PROTOTYPE OF E-SRC VOTING SYSTEM

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THE PROTOTYPE OF E-SRC VOTING SYSTEM

A project submitted to Dean of Postgraduate Studies and Research in partial
Fulfillment of the requirement for the degree
Master of Science of Information Technology
Universiti Utara Malaysia

By
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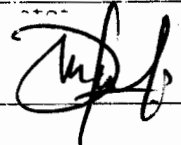
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ABSTRAK

Projek ini adalah satu kajian kesesuaian terhadap pelaksanaan pengundian secara elektronik atau e-voting dalam pemilihan Majlis Perwakilan Pelajar (MPP) di Kolej-kolej Matrikulasi. Teknik pengundian secara elektronik, seperti Direct Recording Electronic (DRE) telah menjadi satu alternatif baru dalam mengendalikan pengundian ketika ini. DRE telah banyak diaplikasikan di seluruh dunia. Kepesatan pembangunan ICT di Malaysia membuatkan pelaksanaan DRE adalah sesuatu yang realistik. DRE menawarkan manfaat dalam jangka masa panjang dan turut menyelesaikan masalah-masalah undi rosak. Projek ini dibangunkan dengan mengadaptasikan Metodologi Hevner's (2004) yang terdiri daripada lima fasa. Projek ini akan dibangunkan berdasarkan keperluan dan kehendak pengguna dalam pemilihan MPP. Akhirnya sistem ini akan diuji dan hasilnya akan menunjukkan kesesuaian dan kemungkinan pelaksanaan sistem ini untuk diterapkan di kolej-kolej matrikulasi.

ABSTRACT

This project will be a feasibility study on the implementation of electronic voting or e-voting in the Students Representative Council (SRC) election in Matriculation Colleges. An electronic voting technique, such as Direct Recording Electronic (DRE) has become a new alternative in election nowadays. It has been implemented widely. The emergence of ICT in Malaysia had made the implementation of DRE is possible. DRE offers benefits in term of time consuming and to solve overvote and undervote problem. This project will be developed based on Hevner's Methodology (2004) which consist five phases. The system will be developed based on requirements and needs in SRC election. Finally the system will be tested and the result will showed the suitability and possibility of the system implementation to be implemented in matriculation colleges.

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LIST OF ABBREVIATIONS

e-Voting	Electronic Voting
ICT	Information and Communication Technology
KMC	Kedah Matriculation College
SRC	Student Representative Council
DRE	Direct Recording Electronic
ASP	Active Server Pages
RAD	Rapid Application Development

CHAPTER 1

INTRODUCTION

1.1 Background Study

Technology has become a trend in education nowadays. Therefore, the government of Malaysia had invested a lot in improving the infrastructure of information and communication technologies not only for the administration but also for the education purpose. Most education institutions nowadays are equipped with the latest technology of ICT. This had also become a trend in matriculation colleges, which makes the implementation of electronic voting possible. In fact, e-voting had been implemented in campus elections since 2004 (Sivanandam, 2010) but not yet in matriculation division.

Matriculation programme is provided for students of aged 18-19 who have good results in SPM (Sijil Pelajaran Malaysia) to pursue their studies before entering university. Nowadays, there are 15 matriculation colleges in Malaysia. Kedah Matriculation College (KMC) is one of the matriculation colleges in Malaysia and it is situated in Changlun. KMC is equipped with various facilities including the latest technology of ICT to assist and support the managements, lecturers as well as students in order to produce excellent academic achievers. Beside the energetic staff, there is a committee of students known as Student Representative Council (SRC) which also has become a very important component in KMC. As one of the component in KMC, the SRC members are selected among the KMC students through election approach.

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