WORKFLOW MANAGEMENT SYSTEM FOR STRATA TITLE APPLICATION AT FEDERAL LANDS AND MINES DEPARTMENT

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UNIVERSITI TEKNOLOGI MALAYSIA
WORKFLOW MANAGEMENT SYSTEM FOR STRATA TITLE
APPLICATION AT FEDERAL LANDS AND MINES DEPARTMENT

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This project report is submitted as a partial fulfillment for the conferment of a Master of Science (Information Technology - Management)

Faculty of Computer Science and Information System
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DEDICATION

Dedicated to my beloved husband, Azman bin Ayob and sons Muhamad Aizat and Muhamad Syafiq, for their sacrifices and understandings
my parents, brothers, sisters ....
ACKNOWLEDGEMENT

The author wishes to extend her grateful appreciation to all those who have contributed directly and indirectly to the preparation of this project. Especially to extend her thanks to Associate Professor Dr. Rose Alinda Binti Alias, Project Supervisor and also the Deputy Dean of Faculty of Computer Science and Information System, for her valuable advice, guidance and encouragement throughout the preparation of this project. Also the author wishes to extend appreciation to Professor Dr. Ahmad Zaki bin Abu Bakar, the Dean of Faculty of Computer Science and Information System, Professor Zamri bin Mohamed for their concern and valuable advice in this project.

Special thanks to the ex-director of FLMD, Datuk Jasmil bin Hj. Ghani, Assistant Director of Land Development, Encik Zainuddin bin Tala, the officers and staff of FLMD for their untiring support and assistance, especially to Elyza Mastura, Enah, Zainun, Nisha and Ridzuan for their help in realizing the success of this project.

Finally, the author expresses her sincere thanks to her family members and parents for their encouragement, inspiration and patience, which they provided at every step during this course of studies.
Workflow is important. It is a valuable technology. It is a discipline, practice and concept. Workflow management system is a computer application which enables document processing to be done effectively. A number of workflow management systems have been developed. Although the importance of workflow management is widely accepted, it is not being utilized by most organizations, due to its lack of trustworthiness and appreciation. This study intends to promote a workflow in action particularly in the processing of strata title at FLMD. Members of the department especially the management can obtain the latest scenario of an activity through the system being introduced. Not only have that, the customer of FLMD had the opportunity of getting latest information on their application status. All these are the results of the study achieved during the requirements analysis. There is a need for a proper monitoring of procedures at all levels. All action should be transparent and all staff should be accountable at any time of their day in their work environment. In conclusion, the proposed prototype built eventually help staff and officers to collaborate better, which in turn improve employee performance and accountability in the department.
ABSTRAK

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CHAPTER I

INTRODUCTION

1.1 Introduction

The state of the art of information technology is dynamic, constantly delivering new innovations and breakthroughs that offer better systems solution. This has opened new avenues and opportunities for government agencies to increase productivity and to enhance services. The computer usage within the Government follows specific trends. One noticeable trend is the use of networking, specifically LAN, to optimize resource and information sharing within an agency and the need of Internet usage. There is a growing dependence on using computers for daily operations to provide efficient and quality counter services. There is also the trend towards downsizing of computers. Many government agencies have acquired or plan to acquire smaller multi-user systems, which have high processing capabilities, easier and cheaper maintenance. It also marks the Government’s success towards the implementation of Open Systems. Many government agencies are moving into image processing technologies for document handling and verification of images. These scenarios led the Federal Land and Mines Department (FLMD) to take opportunities to be equally competitive with the other government agencies in ICT.

A general consensus is emerging with regard to the instrumental role that good governance and public service institutions can play in the promotion of a transparent and accountable administration (Anyakuru, 1998). Experience has shown that routine and bureaucratic public administration leads to obstacles and paralyses
initiatives of private enterprises and citizens. For decades, public service officials followed dogmas of the quiet past in doing government’s work. Legal mandates or internal traditions built a morass of processes, which did little to serve the customer of public service products and services. Public service managers seemingly trapped in a labyrinth of outmoded ways of doing business simply asked for more money and people to keep operations afloat. The result was an escalation of expenditures for services delivered at minimal and often declining performance level.

Today, our resources are no longer infinite and government performance is becoming more and more ardent to the public. The present is a place in which government must operate with dwindling resources and contend with a public frustrated with its efforts. Hence, government finds itself in a unique position of spearheading collaboration, initiating innovation and learning to reform public administration to meet challenges in the next millennium has to offer.

The question facing government is simply one of survival. The IT revolution has brought with it changing relationships between government as service provider and the citizen/customer. This relationship calls for a redefinition of their respective roles (Baljko, 1998: Lyons, 1998). Better education, fiscal imperatives, programmed review as a determined thrust to improve public service, the rise of information society and growing demand for efficient government have all contributed towards redefining the purpose of government and the methods by which it conducts business (Henry, 1998). This is given further impetus when there is a global movement towards an honest and just government.

It is common knowledge that governments are huge networks delivering public services. More often than not, there exists at the least some meager form of cooperation between such networks. Customers of government find that in order to secure services, multiple departments are involved and there is a need for them to physically join queues to obtain these services at various departments and agencies.

Osborne and Gaebler (1992) in their landmark book, Reinventing Government, stressed the need for governments that are catalytic. Government, they say, should inject competition into service delivery; focus on earning rather than
spending; shift from hierarchy to teamwork and participation; and focus on preventing rather than cure. By and large, it is accepted that IT is the key enabler of government transformation. But progress has been slow on how technology can achieve the new paradigm in governance.

The concept of E-Government is one of an internetworked government. It links new technology with legacy systems internally and in turn links such government information infrastructure externally with everything digital. The E-Government initiative is very much concerned with dramatically improving the internal workings of government. These processes and systems will be applied to both inter-agency and intra-agency services. The objective of inter-agency applications is to contribute towards a higher capability of governance through the use of IT and through the transformation of the inter-agency processes at the operations, supervisory and policy levels. The new systems address the improvement of communication and information-sharing capabilities, information capability management amongst agencies as well as core operational capabilities and functions of the agencies involved.

1.2 Background of the Problem

The Federal Lands and Mines Department is an agency responsible for the collection and maintenance, updating and distribution of information related to registration, revenue and administration of land particularly the administration of strata title.

The issuance of strata title is the most difficult process. There had been many cases of late delivery in issuing strata title as shown in Table 1.1 and complaints from various section to the Public Complaint Beareau in the Prime Minister Department as shown in Table 1.2.
Table 1.1: Strata title (subdivision of building/buildings) application status from the period of January 1985 - Mac 2001 at FLMD

<table>
<thead>
<tr>
<th>No.</th>
<th>Processing Stages</th>
<th>Total Application</th>
<th>%</th>
<th>Total Parcel</th>
<th>%</th>
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<tr>
<td>1</td>
<td>Received application</td>
<td>1,708</td>
<td>100</td>
<td>90,373</td>
<td>100</td>
</tr>
<tr>
<td>2</td>
<td>Approved application</td>
<td>1,131</td>
<td>66.2</td>
<td>63,453</td>
<td>70.2</td>
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<td>3</td>
<td>Rejected application</td>
<td>283</td>
<td>16.5</td>
<td>15,154</td>
<td>16.8</td>
</tr>
<tr>
<td>4</td>
<td>In process application</td>
<td>294</td>
<td>17.3</td>
<td>11,766</td>
<td>13</td>
</tr>
<tr>
<td>5</td>
<td>Application with strata title</td>
<td>1077</td>
<td>95.2</td>
<td>57,428</td>
<td>90.5</td>
</tr>
<tr>
<td>6</td>
<td>Application without strata title</td>
<td>631</td>
<td>4.8</td>
<td>32,945</td>
<td>9.5</td>
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Table 1.2: Complaints made to Public Complaints Bureau from 2000 – 2002

<table>
<thead>
<tr>
<th>No.</th>
<th>Category</th>
<th>Total Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Delay / No Action</td>
<td>450</td>
</tr>
<tr>
<td>2</td>
<td>Unjust action</td>
<td>134</td>
</tr>
<tr>
<td>3</td>
<td>Lack of public facility</td>
<td>43</td>
</tr>
<tr>
<td>4</td>
<td>Enforcement failure</td>
<td>32</td>
</tr>
<tr>
<td>5</td>
<td>Consultation services</td>
<td>24</td>
</tr>
<tr>
<td>6</td>
<td>Poor counter services</td>
<td>24</td>
</tr>
<tr>
<td>7</td>
<td>Inproper procedure</td>
<td>18</td>
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Under the procedures laid down in the Strata Titles Act itself, there is a long and tortuous process. The steps to be followed are:

(i) Application for approval made to the Land Administrator;
(ii) Checking of plans and survey by the Director of Survey;
(iii) Transmission of documents to the Director of Land and Mines;
(iv) Approval obtained from the Director of Land and Mines;
(v) Action taken by the Director of Survey after the approval subdivision;
(vi) Issues of strata titles to individual parcels;
(vii) Preparation of strata registers;
(viii) Preparation of documents of strata title.

It can be seen from this that the process involves several different authorities, each of which have different responsibilities to carry out and that documentation must be passed back and forth between them as the application progresses. During this winding process, there are possibilities of untraced action. For the management, it will be normal to say that the file undertaken is missing in action. This is due to the unavailability of proper monitoring procedures.

All these procedures are done manually. They are slow, ineffective and inefficient. It takes too much time and resources. Undoubtedly, complaints made by the applicants are unable to be attended to immediately. Applicants are not notified by the authority of their application status (BPA, April 2003). They do not know what actually happens to their application if there are problems. These not only increase the public frustration and temper but also degrading the image and credibility of government servants. There are also cases where the application is rejected due to insufficient information given to the applicant prior to their application.

There is a mechanism in alerting the urgency of each action such as giving memorandum stating its urgency level to be improved but the problems still arise. Under the estimate made originally by the Director-General of Land and Mines, it should not have taken more than seven months for an application of strata title to be processed and approved. For strata titles to be issued under the Malaysian system,
there have been many examples of developments where strata titles have still not been issued after a much longer time than that. For example, in Syed Azman and Syed Mohamed v Lian Seng (KL) Construction Co Sdn Bhd, the purchaser had purchased a parcel from the defendant in 1971. The building had been completed in 1973. At the date of the hearing in 1992, the purchaser had still not received the strata title. In the Highland Towers’ case, the buildings had been completed for 14 years and the strata titles still had not been issued. While these may be extreme cases, there are many more where the delay in issuing strata titles was a matter of years rather than months (Jamila Hussain, 1999).

Thus, with the problems mentioned above, a better solution should be thought of to improve procedures and services in order to excel in the public services especially on land related matters.

1.3  Statement of Purpose

This study is to propose a prototype intranet-based information system that improved and speed up strata title application procedures for effective management and communication efficiency at FLMD.

1.4  Problem Statement

The current process for strata title registration is too slow, too cumbersome and lacks transparency. The rapid and fast developments of high rise buildings need faster, easier and more efficient strata title registration process. The existing manual procedures, inadequate monitoring tools and lack of collaboration results in inconvenience to the customers, department and the government.
1.5 **Research Objectives**

The main objective is to design a local area networked information system that is able to achieve the following objectives:

(i) To provide mechanism that is able to speed up the process of the strata title application at the Land Development Division, Strata Unit at FLMD;

(ii) To provide the applicant with the right information prior to their application submission so as to minimize rejected application and to allow them to know the application status as and when required;

(iii) To eliminate beauracracy in the strata title application procedures.

1.6 **Limitation and Scope of Study**

The following are some of the limitation and scope of the study prior to the development of the proposed system.

(i) This study will be done in the Strata Unit, Development Division of Federal Land and Mines Department (FLMD) and other related divisions within the agency;

(ii) The project predominantly focuses on strata title application procedures according to Strata Title Act 1985;

(iii) The workflow of the strata title application is using a intranet-based application and is implemented on a prototype basis;

(iv) The prototype will be located at a suitable web server to be tested while accessing its impact.
1.7 The Importance of Research

Some of the importance of the research is:

(i) Expediting the strata title application processes, which therefore help to reduce the rejection of application through the online facilities, made by the respective customer of the FLMD. Hence, immediate correspondence with the customer can be made possible with the introduction of online access to the system;

(ii) Guaranteeing the future improvements in the strata title application as a one-stop agency and therefore provide confidence to the customer in getting ownership to their property;

(iii) Updated information to management, government and the public through the workflow system. Thus provide fast and sound decision making for further development;

(iv) Realizing the government vision 2020 towards a paperless society with the implementation of an intranet-based application. The trend today, which is towards the usage of the Internet technology promise customer satisfaction in the near future.

1.8 Chapter Summary

This report is organized into 7 main chapters. Chapter I provides a general introduction and a brief overview of the project including the project introduction, background, objectives, statement of purpose, problem statement, limitations and its importance. Chapter II discusses the literature background concerning WfMSST. This includes the concept of strata title, concept of workflow, and the suitable technology, success story oversea which uses workflow and brief description on the organizational background. Chapter III discusses the methodology of the research that is used during the development of the proposed system while Chapter IV presents and discusses about the requirement analysis of the proposed system and architecture of how the proposed system is constructed. Chapter V is the detail of the
development process of the proposed system. The testing of the proposed system, WiMSST is discussed under Chapter VI while the last chapter, Chapter VII presents the discussion on the overall system development including its advantages, limitation and recommendations and finally, to conclude this study.
REFERENCE


