



National Housing & Construction Company Ltd
Titles Management System (TMS)

Hand Over Report for the Upgrade of the Title Management System (TMS)

Submitted by:



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Declaration

We *InfoTronics Business Systems* do hereby submit this final report in partial fulfillment of the Upgrade of the Title Management System assignment.

For and on behalf of *InfoTronics Business Systems*

Name: Peter P. Wakabi-Waiswa, PhD

Title: Managing Director

Signature: 



APPROVAL

This report has been submitted to National Housing and Construction Company with the approval of:

Name: Etuket David

Title: ICT Manager (NHCC)

Signature:

Abbreviations

| | | |
|------|---|---|
| ASP | - | Active Server Pages |
| IBS | - | InfoTronics Business Systems |
| MIS | - | Management Information System |
| MVC | - | Model View Controller |
| NHCC | - | National Housing and Construction Company |
| TMS | - | Title Management System |

1 Introduction

We are pleased to present to you this *final report* on the provision of technical assistance to conduct an **Upgrade of the Titles Management System (TMS)**. InfoTronics Business Systems (IBS) was contracted to provide technical assistance to conduct this assignment for National Housing and Construction Company. It is therefore to this reason that we have completed the assignment and provided this report as part of the project deliverables required from the consultancy firm by NHCC.

1.1 Purpose of document

The purpose of this report is to communicate the design ideas and implementation choices to NHCC about the Title Management System. It also describes the modules in the Management Information System that were implemented in the due course of this assignment.

1.2 Report Format

This section provides a summary of how the report is structured and what information is described in each section. It enables a reader to have a quick overview of what is contained in the different sections.

Section 1 provides a general introductory overview of the general report. It provides the user with information regarding the objectives that were meant to be achieved in the initial Terms of Reference, the scope of the assignment and the project deliverables.

Section 2 provides a description of the modules in the Title Management System and what functions they perform.

Section 3 provides a description of how the system support and maintenance will be conducted by the consultant to the NHCC team. This will include ways on how knowledge shall be transferred to the NHCC staff about the system.

1.3 Objectives of the assignment

The objectives of this assignment were to upgrade and improve the functionalities of the existing TMS web application. The existing application was developed using older technologies that is; ASP.NET web forms that were not functioning to the current status of the company. Therefore, there was need to transform this application to newer

technologies (ASP.NET MVC) in order to improve the system functionality as per the NHCC requirements.

However the main objective for the upgrade of the TMS system was to assist the NHCC management in keeping track of all land titles through recording them in the system, keeping track of payments made on particular land titles and to keep track of the movement of land titles within and outside the company while also providing reporting information about the different land titles in the company.

The other objective of the assignment was to aid NHCC management to easily acquire relevant statistical information about the land titles on click of a button. This was achieved through the provided reports in the system that return all the relevant information required by the users.

In the newly enhanced and upgraded Title Management System, we have successfully designed, developed and hosted the system on the National Housing and Construction Company servers with the following objectives (functionality).

- Adding new land titles in the NHCC database.
- Adding title payments made on the different land titles.
- Track the movement of land titles within the company.
- Track lease expiry and notifications for renewal.
- Track changes to land titles on large.
- Draw statistical analysis reports.

1.4 Scope of the Assignment

The scope of the assignment was defined by the National Housing and Construction Company as stipulated in the contract agreement signed between NHCC and IBS.

Therefore, as specified in the contract agreement, the scope defining the system upgrade focused on the following areas:

- Adding new titles in the system.
- Adding title payments in the system.
- Performing title movements within and outside NHCC.
- Draw reports for analysis of the existing information in the database.

2 TMS System Modules

This section provides a description of the major modules in the TMS Management Information System. The system consists of 6 (six) modules that are used to carry out the day to day system operations as explained below:

2.1 Home

The module provides a general summary of information existing in the system database regarding information about titles. It provides statistical analysis as well as graphical representation of information in the database that can be used to identify the status of the company's titles.

2.2 Add Title Module

The module is used to perform data entry regarding details about titles into the NHCC database. The module involves entry of information about:

- Land Titles: FreeHold Titles, LeaseHold Titles and Mailo Land Titles
- Title Payments
- Title Movements

2.3 Managing / Approving Titles Modules

The module is used by the title approver to take specific action on the entered titles into the NHCC database. The approver takes action depending on what is reliable for a title. The actions taken include; rejecting of a title or approving the title. The module consists of three submodules which include:

- Land Titles: FreeHold Titles, LeaseHold Titles and Mailo Land Titles
- Title Payments
- Title Movements

2.4 Approved Titles Modules

The module is used to view titles that have been approved as final for storage in the database. Approved titles are believed to have undergone through thorough check by the authorizing personnel before they are marked as final.

Titles that have been approved by the authorizing personnel are disaggregated in the following sub modules:

- Land Titles: FreeHold Titles, LeaseHold Titles and Mailo Land Titles
- Title Payments
- Title Movements

2.5 Rejected Titles Module

The module captures titles that were entered into the system through the data entry module but were rejected due to some inconsistencies in the entered data. Therefore, if the title is flagged as rejected during the title approving/managing process, it is sent to this module where it can be accessed for correction by the responsible party that entered the title.

The module is disaggregated into following sub modules:

- Land Titles: FreeHold Titles, LeaseHold Titles and Mailo Land Titles
- Title Payments
- Title Movements

2.6 Unlocked Titles Module

The module consists of titles that were approved for storage in the database as the final titles but due to need of updating specific details about the title, they are unlocked for editing. When the titles are unlocked, they are displayed in this module where the respective changes are made according to what the reason for unlocking the title was.

The module is disaggregated into following sub modules:

- Land Titles: FreeHold Titles, LeaseHold Titles and Mailo Land Titles
- Title Payments
- Title Movements

3 Support and Maintenance

3.1 Training

We shall provide training to the NHCC staff (both technical and general staff) on how the TMS system is used to carry out the NHCC activities. The technical team will include the System Administrators that shall be trained on how to operate and debug the back end of the system while the general NHCC team will be trained on how to perform the front-end activities like performing data entry and other activities.

A user manual for the system operation and a Technical Report for the System Administrator will be provided to the NHCC team for reference when there is need to perform any changes on the system.

3.2 Maintenance

As per the Terms of Requirements at the contract agreement signing, we shall provide system support and maintenance for a period of one year after we have handed over the system to NHCC. We trust that due to the systematic and structured approach that we have taken during the development phases of the system, the One year is be good enough to enable the system mature and stabilize.

END