Project: **BRALIRWA Stock Management**

Summary

BRALIRWA Stock Management (**BSM**) is a project of developing a software that will manage the stock located at BRALIRWA headquarters in Kicukiro district. It is a software that will monitor the movement in stock where it will record all incomes and expenditures and deliver reports at the end of every period: Month and Year.

The software will record all income items either in terms of money or in terms of product; and it will also record every outcome in stock including products that BRALIRWA sells (Fanta, Primus,…) or money spent. At the end of every month and year it will be able to deliver a report that shows the movement of products and money inside the stock.

The project will be done in 8 weeks, 6 weeks for designing software, 1 week for testing if it meets all requirements, and 1 week for training users and administrators of the system.

At the end of this software, it will be possible to make a report in a single click but also the security of data will be kept, where only administrators and the stock manager can modify the recorded data, not forgetting that recorded data will be saved in a way that it will last long without risks of being lost.

Background

The development of communication is one of the main goals that our country is using in order to achieve the development. The implementation of Information and Communication Technologies (ICT) in many sectors, institutions and companies has been improved in these three last years (Ignace GATARE, ‘Minister of ICT’, 2010).

A number of Rwandan companies are incorporating Information and Communication technology (ICT) in their everyday work, in order to make their business easy, accessible, and efficient. But also to meet the vision 2020 which states that ICT will help to achieve development in this nation, and also to make business easy and accessible.

BRALIRWA as one of the biggest business company in Rwanda, but also in the region, cannot wait in accomplishing this goal of incorporating ICT in their business. It was a big challenge to BRALIRWA to manage the stock using the archaic way. The archaic way is very consuming in terms of money and time but also not secured, most of the time important document could be lost or if using MS Excel, it took much time to prepare a report.

This software will provide a way to manage all the incomes and expenditures; it will now provide ease of monitoring movement inside the stock every period and to make a report.

Project Time-duration

The project will last 8 weeks from November, 21 2011 - January, 16 2012.

# Objectives

* Global objective**:** To make a software that will provide an easy way to manage incomes and outcomes in BRALIRWA stock.
* Specific Objectives of the software**:**
* Record all incomes and outcomes
* Monitor the movement of the stock
* Make monthly, and annually report.

# ****Project plan and description****

This system will be done in 8 weeks (as it will be shown in the project management system) divided into two sessions:

* First session: Concerns the software design process which will be done in 7 weeks. This session is about developing an application that is able to meet the objective of the study and to meet BRALIRWA’s needs.

It will start at November, 21 2011 by gathering all the requirements, analyzing them and then start to design all the interfaces that will be used by the software. This process will be followed by making the database.

In this session, the last part will concern to delivering the first version which will be tested by the programmer, then correct some errors if they are found.

* Second session: In this session, the first part is about testing the software by the user who will be using it, if errors are found then they are corrected at the same time until all errors are removed.

The second part is about training the user of the system about all the features of the system; and also train the administrator of the system how to manage the database and the permission of users.

It is after that training that the software will be delivered. This session will last one week and half.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date of action**  **Action** | First week | 2nd week | 3rd week | 4th week | 5th week | 6th week | 7th week | 8th week |
| Requirements specification and Analysis of the project |  |  |  |  |  |  |  |  |
| Designing the project |  |  |  |  |  |  |  |  |
| Testing and Validation of the project (By the programmer ) |  |  |  |  |  |  |  |  |
| Testing the project (By the user of the system) |  |  |  |  |  |  |  |  |
| Train users and administrators of the system |  |  |  |  |  |  |  |  |
| Last Validation of the software |  |  |  |  |  |  |  |  |

# Project timeline

**Description:**

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**:** Working days

* 1 week represent 6 days of work.
* The beginning date is November,21 2011
* The end of the project and application delivery is January, 16 2012.
* User of the system means stock managers.
* Administrator of the system means those who will manage the system and the database.

# Project Budget

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| --- | --- | --- | --- |
| Nº: | Name of item | Price per Unit (RWF) | Total  (RWF) |
| 1. | SQL (License for enterprise) | 10,237,512 | 10,237,512 |
| 2. | Microsoft Visual Studio.net 2008 | 7,420,000 | 7,420,000 |
| 3. | Salaries-Employment Coordinator | 4,000,000(\*1) | 4,000,000 |
| 4. | Salaries-Employees | 3,000,000(\*4) | 12,000,000 |
| 5. | Training: Users and Administrators (communication and transport) | 30,000 (\*4) | 120,000 |
| 6. | Software description document (preparation, copy/printing) | 50,000(\*10) | 50,000 |
| 7. | Taxes |  |  |
| 8. | Office equipment | 250,000 | 700,000 |
| 9. | Health Insurance |  |  |
| 10. | Employees telephone | 40,000 (\*4) | 160,000 |
| 11. | Employees Transport | 30,000(\*4) | 120,000 |
| 12. | Six month guaranty | 400,000 | 400,000 |
|  | **Total:** | ­\_\_\_\_\_\_\_\_\_\_ | **35,207,512** |

# Narrative to budget:

* The project will require four employees and the coordinator of project.
* Training - The project will met by undertaking one training in four days with system users and administrators.
* Office equipment –The office will need new equipment to accomplish the goal (one computer and one projector).
* Guaranty – The project will need insurance and maintenance, which will be taken by the company in six month.

# Expected Project Outcomes

The 8 weeks expectation is to deliver a system which meets the user’s needs.

At the end of the planned time the system will be having the features that are flexible and easy to understand; so that, even other users who will be hired after delivery would be able to use it.

# Conclusion

This project is a success and a solution to ICT in Rwanda. The use of this software will minimize the work and will provide an easy way to prepare a monthly and yearly report of the movement in BRALIRWA’ stock. It will store records in a secure way, even after centuries it can be found again.

Chief Executive Officer of ADEPT 360 Technical Service

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