Sri Lanka Institute of Advanced Technological Education (SLIATE)

Hardware Management System
Project Proposal

Submitted by:

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Abstract

The Hardware management system, Sri Lanka. It facilitates for Staffs,Supliersand Usersare working there. Currently, the details about Staffs,Supliersand Usersare maintained using traditional methods (By using stationary materials). As a result of traditional practices, the Admin faced information loss due to misplacing of documents. The Hardware management system will address the issues arise due to manual maintains of data by automating the process.

By interviewing the admin we verify the primary need of the Hardware Management System as easy access and maintenance of data in an efficient manner. By further analyzing the available infrastructure we decided to develop a standalone desktop application to address the above-mentioned requirements. In order to, implement the system we use c# for programming and Microsoft SQL Server as the database. The system will ensure the availability and security of the information belong to the hardware.

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Introduction

Wious Holding is one of the biggest hardware distributors in Sri Lanka. It is located inSoysapura currently it has about 10 employees.

Wious Holdings import hardware items from countries like Japan, China and US etc... Then they take orders of hardware items from hardware's island wide and distribute them throughout the country. They are providing quality products to their customers for many years now.

But they are still using a file-based System for their managements purposes. As updating and maintaining a manual system could be very difficult and time consuming, they want to convert their system into a more efficient computerized system.

Problem Specification

1. Lack of Security

   ☐ In this case the factory secret or classified information is unsafe. If lost these data, there's no chase of getting them back.

   ☐ Fire situations & natural disasters can destroy important information in a file-based system

2. Time Consuming

   ☐ We have to enter all details of the employees, suppliers, financial, stock and other detail manual it is very difficult & time consuming.

   ☐ Handling documents store the and finding stored documents not easy tasks

3. Difficulties in updating Data ☐ When updating data about the employee's suppliers' products. They have to keep a copy in oden to save the original. Therefore, updating process becomes even more difficult and time consuming.

4. Increase Cost

   ☐ We have to maintain documentation record keeping storage because this is a manual document management system. These things decrease the business profit.

5. Data inconsistency

   ☐ Same information can be written more than one place since this is a manual document management system, it is very difficult to find out recorded data.

6. Ordering Errors

   ☐ When we place an order, some ordered items can be misplaced due to non-systematic file handling.

7. Human errors

   ☐ When handling a manual system there can be many errors occur by the humans.

Examples – quantity errors

Solution Outline

- We can keep the important data will be saved and get them back. Fire situations, natural distance also can not destroy the information's in this management System

- We can save time when we use this system for example we can do following tasks in few minutes handling documents, storing the documents and finding stored documents. So they will easy to carry out quickly.

- When we compare of using this system and manual file handling method, this management system is enough to store data is less space. We don't need more papers, files, books or cupboards to store information's and data sufficient place is there in a system to store lot of information in a small place.

- In a system Updating data is very easy & time consuming no need to keep a copy to save originals, For example data about the employees, suppliers, product etc.

- When we use this system, we can get more profit in business, because of low cost for maintain documentation, record keeping storage and so on in system is very favorable in business world to get more benefits.

- We can avoid duplicate double entry is a system. It is very easy to find out recorded data without confuse.

- In this systematic file handling there are no chance to misplace an order or ordered items.

- When we use this system, we can find less or no errors reliability is very high in this system, so many errors can be avoided in a system.

Objectives

This hardware management system is designed to provide information regardingthe hardwaredetails.

- Hardwaremanagement system deals with Staff details, Users details, salary details, Supliersdetails,delivarydetails and report.

• Admin is given all power and authority over the whole system.

- The receptionist can have the access to provide add Staff,Users,salary,Suppliers,and delivaryrelated details.
- Provide a detailed report, summary report & login history.

Key Benefits

➢ Implement security to school details by implementing login functionality and providing different access levels.

➢ Allow easy insert, delete, update and retrieve details relevant to the system.

➢ Ability to generate reports as required.

➢ Searching functionality which facilitates obtaining of the required report as necessary.

➢ Able to work with a user-friendly interface.

➢ Able to save a lot of time and effort.

Function In Details

1. UsersManagement

   This functionality will allow the admin to enter usersdetails to the database and retrieve data, update data and delete data. The user of the system can search for the details of a particular user. Also, the user can generate reports about user. The system will facilitate to store an image of a user.

2. Staff Management
   This functionality will allow the admin to enter staff details to the database and retrieve data, update data and delete data. The user of the system can search for the details of a particular staff. Also, the user can generate reports about staff. The system will facilitate to store an image of a staff.
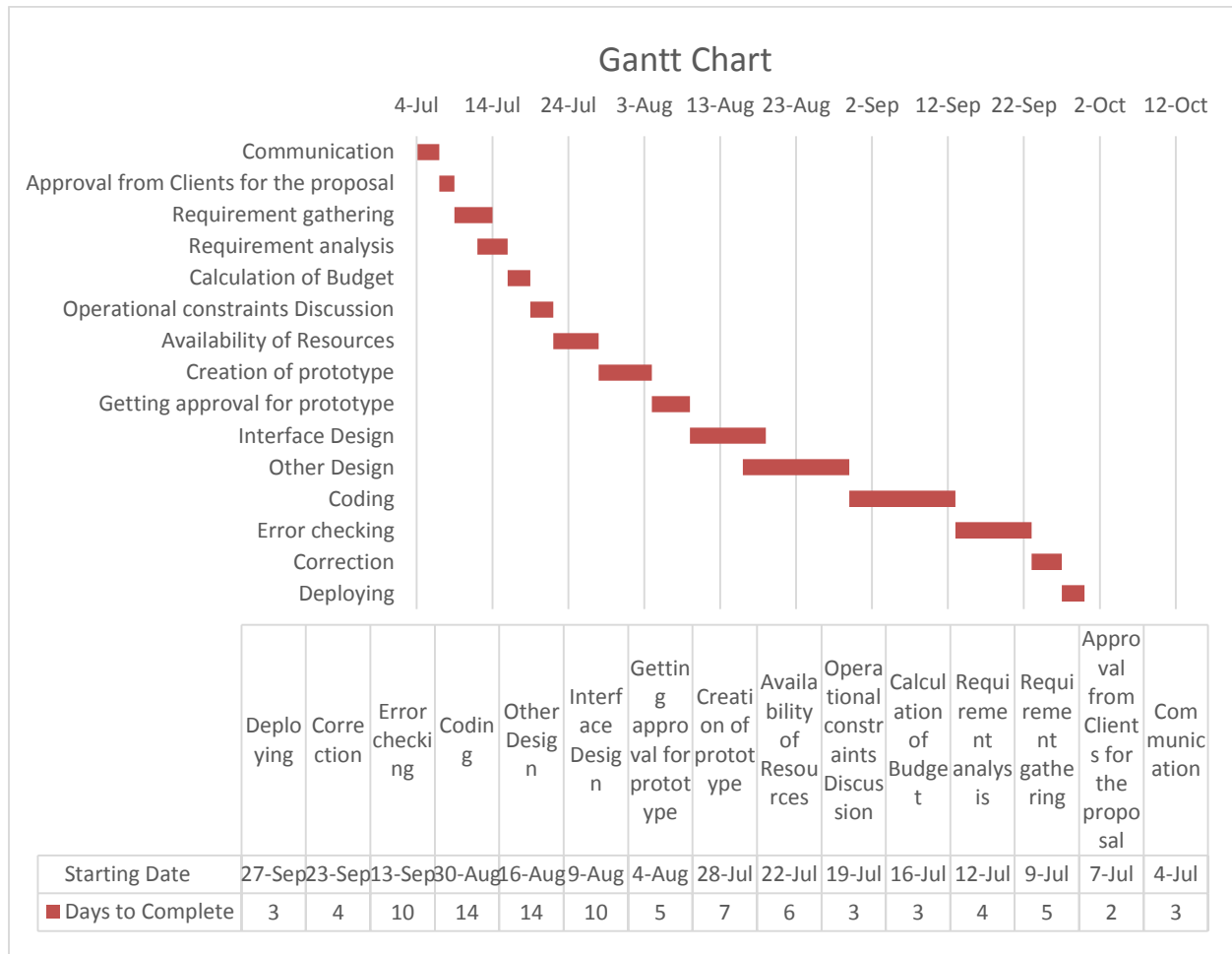
3. Salary Management

4. Delivary Management

5. Suppliers Management

   This functionality will allow the admin to enter suppliers details to the database and retrieve data, update data and delete data. The admin of the system can search for the details of a particular supplier. Also, the admin can generate reports about suppliers. The system will facilitate to store an image of a suppliers.

Gantt Chart

Gantt Chart

	4-Jul	14-Jul	24-Jul	3-Aug	13-Aug	23-Aug	2-Sep	12-Sep	22-Sep	2-Oct	12-Oct

- Communication
- Approval from Clients for the proposal
- Requirement gathering
- Requirement analysis
- Calculation of Budget
- Operational constraints Discussion
- Availability of Resources
- Creation of prototype
- Getting approval for prototype
- Interface Design
- Other Design
- Coding
- Error checking
- Correction
- Deploying

	Deploying	Correction	Error checking	Coding	Other Design	Interface Design	Getting approval for prototype	Creation of prototype	Availability of Resources	Operational constraints Discussion	Calculation of Budget	Requirement analysis	Requirement gathering	Approval from Clients for the proposal	Communication
Starting Date	27-Sep	23-Sep	13-Sep	30-Aug	16-Aug	9-Aug	4-Aug	28-Jul	22-Jul	19-Jul	16-Jul	12-Jul	9-Jul	7-Jul	4-Jul
■ Days to Complete	3	4	10	14	14	10	5	7	6	3	3	4	5	2	3

Tools and Technologies

The school management system designed for the school is a standalone desktop application. It codes using C# and the interface is designed by using windows forms. We are plaining to use MS SQL Server as the database and report generation by using report view function in the windows form.

Software Requirements:

OS: Windows 7, 8 or 10

Framework: Microsoft Visual Studio, report viewer

Database: Microsoft SQL Server

IDE: Visual Studio

Documents: MS Office

Hardware Requirements:

PC (with1Ghz or Higher, 1GB ram, 10 GB of free space)

Printer