

Higher National Diploma in Information Technology



Advanced Technological Institute - Batticaloa

PROJECT PROPOSAL

Individual Project

School Management System

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Higher National Diploma Information Technology
Advanced Technological Institute – Batticaloa
Individual Project Proposal-2020

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Mid Presentation		
Final Presentation		

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Thank you.

Abstract

School Management System helps headmasters to get the most accurate information to make more effective decisions. Teachers and headmasters gain time saving administrative tools, parents gain immediate access to their children's grades and students can track their own progress. School Management System equipped features makes it possible to generate schedules and reports in minutes and to retrieve attendance records, grade checks, report cards, transcripts, and form letters in just a few clicks.

School Management Systems helps Teachers to complete grade book, track student's attendance, input class notes, create lesson plans and detailed reports, and communicate with other staff members, students, and parents all via e-mail. It also helps Students to access assignments and tests, and view attendance records, grades, report cards, and progress reports all online. They also can communicate through mail and forums with teachers and other students online. My School (SMS) is a desktop enabled application developed in C# and Microsoft MYSQL server backend.

To implement My School application, schools do not need expensive hardware and software; they just need an internet connection and desktops. Our system works as a centralized database and application that schools can easily access the system from anywhere based on the login credentials. My School is a platform independent system that virtually any user can access from anywhere through a standard internet accessible system. We can also customize My School for individual school needs.

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1. Introduction

1.1 Background and Motivation

- The School management currently following a manual procedure in Mutur Central College. All the students and teachers details, laborers details, Salary details and result details are managed in paper documentation. All these students and teachers details at present are managed manually by the School & student's facilities fees collection for managed manually by school.
- Mutur Central College is a nonprofit organization. All resources (Laboratory, Library, and Educational Environment) are availability in the school, good and sincerely teachers, society support because can to do produce for intelligent and discipline students society. Our school has achieved to G.C.E. Ordinary Level Examination Average 90% passed for every year.

1.2. Aim and objectives of the project

Aim of the project

- The main objective of the developing the information system is to have a quality and practicable information which is improve the current manual system that Mutur Central College having. Another objective of this system should be user friendly and easy to maintain. The system produced should be easily modified to addressed any form of constrains in an actual situation.

Objectives of the project

- To investigate the current processes, requirements, constraints and problems involved in the task of maintaining the National Education School.
- To develop a School management system using the most suitable software.
- Develop computerized system that will be able to record, Planning, Motivating, store, retrieve and generate report of to make good managerial decision.
- Create a comprehensive database that provides the information of students and teachers details.
- To provide effective school management without delay by automated data handling
- To make the system more user friendly and easy to use.

2. Problem & weakness

- Existing system is manual, so it is hard to find information and it is slow and waste of time, because the Principal has to go through each and every file to find single information. It will take more physical space to keep all the files. There is no enough security in manual system in maintain data, so that everyone can go through or alter the important data.
- It is difficult to change data, as it is not nice to cut or correcting with fluid and writing over it so the current system of school management has number of problems and drawbacks.
- Principal want to add new students or Teacher details or remove some students or Teacher due to the less morel activities. At the same time if any transfer to other National school or School he has to waste already used paper which used for this students or Teacher details.
- So, it is required to design of a Computerized School Management System to speed up and make it easy to use the school activities.
 - ✓ There are about 37 male and 18 female Teachers, 1045 students and 10 non academics staff services in this Mutur Central College, so it will take a lot of papers to manage the students or Teacher details and require more physical storage place to store all these files.
 - ✓ If Principal want to see or vice chancellor ask any information about the particular details he wants to check each record one by one. It will take more time so it is difficult to the Principal and it will delay to do his duty.
- Identification of the drawbacks of the existing system leads to the designing of computerized system that will be compatible to the existing system with the system which is more user friendly and more GUI oriented. We can improve the efficiency of the system, thus overcome the drawbacks of the existing system.
 - ✓ Low security
 - ✓ Data redundancy
 - ✓ Difficult to handle
 - ✓ More human error
 - ✓ More strength and strain of manual laborer needed

- ✓ Repetition of the same procedures.
- ✓ Difficult to update data
- ✓ Record keeping is difficult
- ✓ Backup data can be easily generated
- ✓ Existing system requires lot of paper works, so it will take time to enter the data
- ✓ Bulks of documents are kept in a cabin, as current system need large space to store the entire documents.
- ✓ The existing system is not user friendly because retrieval and storing of data is slow and ineffective.
- ✓ Report generating process in the existing system is consuming lot of time because to generate a report they have to go through every file.
- ✓ Important data can be destroyed due to the natural disasters or some other causes, so loss of even a single paper led to difficult situation because papers are interrelated.
- ✓ Lack of efficiency in school management due to the usage of paper handling.
- ✓ Work load due to paper handling and delay in working progress.

3. Scope of the project

- Details of students and teachers data
- Details of Laborers Details
- Analysis of O Level and A Level Result

4. Project Feasibilities

4.1. Operational Feasibilities

- This feasibility method is used to analysis the information and the data, that are required for the system develop

4.2. Technical Feasibilities

- In order to develop a high quality system, it is very important to choose the correct hardware and software and technology. Here some explanations of the hardware, software and technology chosen as development tools for the Information system are listed below.

Software Requirements:

- ✓ Operating System : Micro Soft Windows 7 Ultimate
- ✓ Front End : MS Visual Studio 2013 Ultimate Edition C#
- ✓ Back End : Microsoft SQL Server

Technology in use

- ✓ Language Used : C# Language
- ✓ Other : Microsoft SQL Server

Hardware Specifications

- ✓ CORE i7 intel processor or higher
- ✓ 750GB Hard-disk space or higher
- ✓ Ram 4GB
- ✓ VGA 2GB
- ✓ DVD RW
- ✓ 15'' Monitor (1024*768 Screen Resolution)
- ✓ Keyboard and mouse
- ✓ USP 3.0

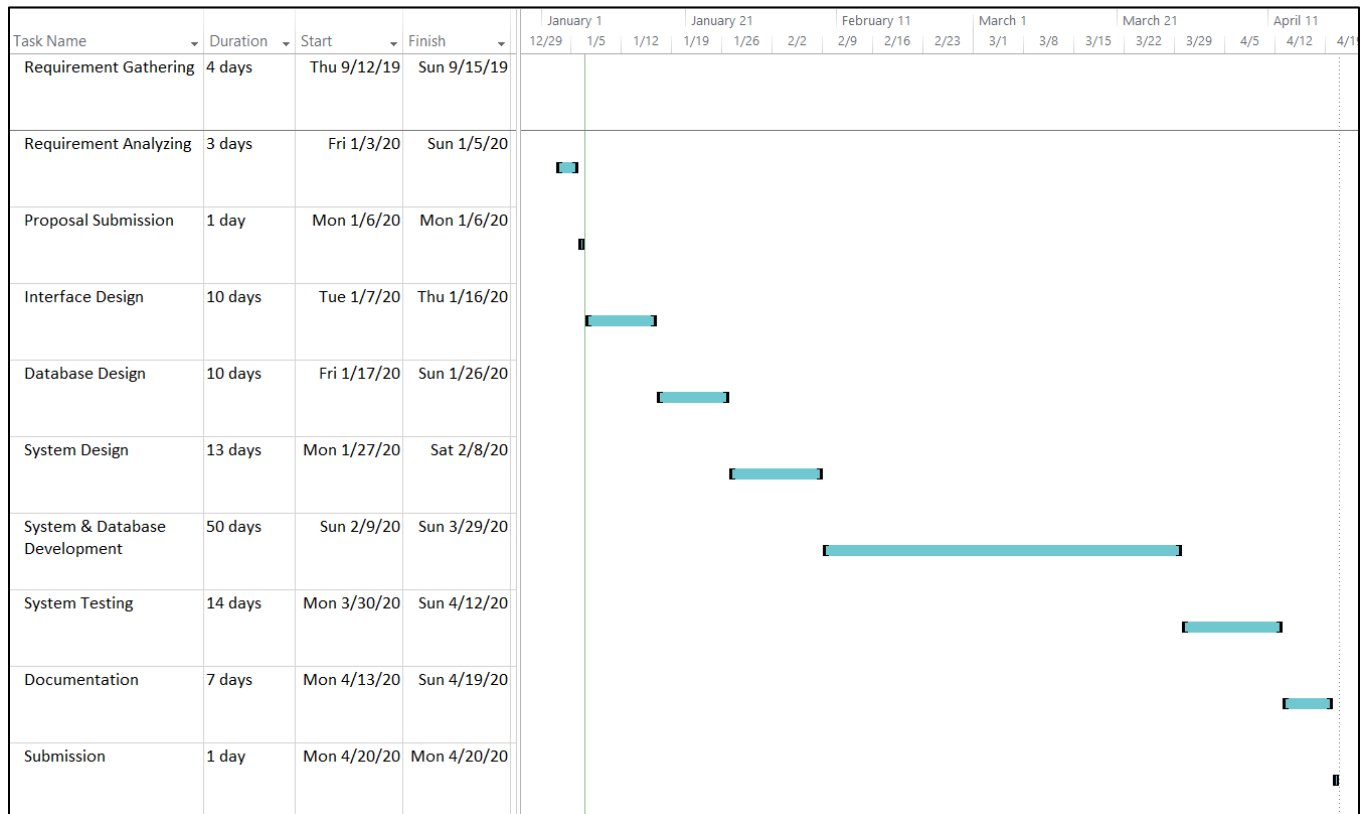
4.3. Financial Economic Feasibilities

- Economic feasibility is the most frequently used method for evaluating the effectiveness of a system. More commonly known as cost/benefit analysis, the procedure is to determine the benefits and saving.

4.4. Legal Feasibilities

- The feasibility analysis the control and the security for the new system. User is properly authenticated before accessing the services.

5. Project plan & schedule



6. Client's contact details

- We can meet the principal the collecting for the all details in our school.

Contact Details

School Principal

T/Mu/Mutur Central College (NS)

Knox Road Mutur – 05

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