Sri Lanka Institute of Advanced Technological Education

(SLIATE)

Higher National Diploma in Information Technology

Project Proposal

Title

Institute Management System with LMS

Submitted to

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1. Introduction

Technologies are changing day by day. Technologies are playing main role in Airport, bus station, hospitals and etc. these days many Institutes are using Institute management system for good and efferent management. But in Sri Lanka few Institutes are using Institute management system. Most Institutes in this country have dozens of computers but they are only used for teaching the Information Technology subject and nobody uses them for Management purposes. Some restricted numbers of Institute are using Microsoft Word, Microsoft Excel for their few Administration and management Proposes. However there are numerous tasks that can be done by computers. But they are manually calculating every thinks finally using computers for designing printing purpose only.

These are the main problem in Sri Lankan Institute there are many factors involving in this problem they are implementing cost is high, existing system problems, need of operators.

Therefore I am implementing Institute management system for less cost, overcome with some existing problems. Our Institute management system will have three main parts students, admin, and Lecturers. Those are most difficult tasks for management. Which they have to perform manually at the beginning, mid and end of each Institute year.

At the end of every three month management needs to calculate students leave, exam marks and etc. for teachers they have to calculate leave, salary details for every month and year wise. These are some main tasks our system going to handle.

The Institute management system will replace the paper based data collection and information exchange system among the various department of a particular Institute.

The Institute management system provides an innovative solution for today's Institute record keeping challenges.

2. Background and Motivation

I have selected to develop a Institute Management System for our ATI. This Institute Located in Main Street, Kovilkulam, Batticaloa District. This is the one of the Institute under the Higher Education. Mr.S.Jeyapalan is the director of this Institute. There are four Main Higher Education Course. Higher National Diploma in Information Technology (HNDIT), Higher National Diploma in Accountancy (HNDA), Higher National Diploma in English (HNDE), Higher National Diploma in Tourism and Hospitality Management (HNDTHM) and more than 1000 students are studying here. Here are Nonacademic and Academic staffs are work.

This Institute has a Library and two computer laps. This Institute help to produce many HND Graduate from Eastern province. This Institute has many Master Degree permanent and visiting lectures.

Following are the specific objectives of this project

- Provide up to date and accurate information's
- Provide a detailed report to the main administrator
- Maintain a easy access from any member of the system
- Reduce un necessary time and loss of data

3. Problem in brief

Here the existing system is manual to keep the record of the Students, Academic and Non – academic staff's details in the Institute. People still prefer to follow the manual method even if there is automated system to keep the record. We have found that they record all information in a file. They are using this way to keep the record of Students details, Teachers details and account details etc. Following this method is very time consuming. It has many drawbacks as there may be mistakes while recording large data and this may disrupt the important transaction. They faced a problem while they Searching for a student details, Teachers leave file or any other related details

Other problems of the existing system are:

- Searching a particular detail is difficult
    - There are over 1000 students and 50 Lectures in this institute. So, admin search a particular person's details is not easy it may take a long period to identify the correct data.

- Fast report generation is not possible
    - This current system keeps in manually by the M.A of the Institute. So, Students or Lecturers get their personal reports is difficult.

- Information about inventory is not properly maintained
    - Under a government, an organization has so many responsible for government properties. So, the principal is responsible person for everything in the Institute.

- Lack of security
    - Manual or file system can less secure than computerized system. Some times the traditional system can damage by any issues.

- Access time
    - The manual system takes long time process, compare with computerized system.

So, in this project we are trying to make an Institute Management System which will help Institute administration to keep records in systematic way and help them produce reports about detail they need at the time in automatic way.

4. Aims and Objectives

4.1 Aims

Aim of my project is develop an Institute management system for identify the problems in the current Institute management system process with the use of IT solutions.

4.2 Objectives

- Students should stay up to date with attendance and their discipline.
- All the members will get notified of the latest Institute news and events.
- Lecturers can track and monitor student's performance.
- Lecturers can generate variety of reports based on student's information.
- Institute admin can manage teachers and students timetable and deliver online.
- Institute admin can track and monitor student activities.
- Institute admin generate attendance statistics of both staffs and students.
- Track students and staff records anywhere anytime.
- Manage donations and fund raising.
- Manage student's admission.
- Generate students' results sheets.

5. Proposed Solution

The Proposed Solution of the manual management is to develop a computerized Institute management system. Before developing the proposed system, there is need to identify;

a) The design of the proposed system

b) The main users of the Institute management system

c) The activities of the main users

5.1 The Design

The proposed system will be designed using Visual Studio and ASP.NET as the front end and MSSQL as the back end. The size (in terms of memory) of the proposed system will be small.

5.2 The main users

The main users of the proposed system are the Students, Lectures and the Administrator.

5.3 Their activities

The activities of the main users of the proposed system are listed in below

Activities of Students and Lecturers

- Search the details
- View students grade
- Update their details
- Add Notes into LMS

Activities of an Admin

- Add/Delete members
- Maintain Accounts
- Deliver timetables

6. Resource Requirements

The proposed system will be develop using Visual Studio and ASP.NET.

6.1 Hardware Requirements

- PC or Laptop with Minimum Core 2 Duo Processor.

- Minimum 1 GB space in Hard Disk

- Minimum 1 GB Ram

- Internet Connection : At least 1 Mbps

6.2 Software Requirements

- Operation System : Windows 7 or Above

- Language : ASP.NET

- IDE : Visual Studio

- DBMS : MSSQL

7. References

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