Higher National Diploma in Information Technology

Advanced Technological Institute - Batticaloa

PROJECT PROPOSAL

Individual Project

Hostel Management System

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RegNo: BAT/IT/2018/F/0098

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

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For Supervisor's use only	
Decision	Accepted/Not Accepted **|DATE|**
Remark	
Examiners	

Supervisor's Use **Only**	DATE	Comments
Proposal Presentation		
Mid Presentation		
Final Presentation		

ACKNOWLEDGMENTS

We are using this opportunity to express our gratitude to everyone who supported us throughout the course of this project, I'm thankful for their aspiring guidance , invaluably constructive criticism and friendly advice during the project work.

I would like to express my special thanks of gratitude to my Supervisor **MR.K.Thevaruban (sir)** Who have us good gratitude throughout numerous consolation to complete to complete my project **"Hostel Management System",** which also helped us in doing a lot of Research and we came to know about so many new things. The completion of this project gives us much pleasure.

Thank you.

Contents

1. Introduction

Hostel is a not a less than a home for students when staying away from their home. It has large well ventilated dormitories and single rooms and is situated in the University, school or other institute premises. Providing clean and calm hostel accommodation is one of the key responsible of school management.

To manage the hostel facilities, a lot of data need to be maintained such as number of student hostel can accommodate, hostel rules and regulation, hostel fee, hostel in and out of student, guest and visitor record and so on. So, this needs the system which has an ability to capture all kind of data and information and analysis it properly for smooth functioning of the hostel. Hostel warden can easily maintain the data.

Hostel Management is an application developed to manage the various activities in hostel. This system is aim to design a Hostel Management System for jammiyathul Siddhikiya College.

All the hostels are managed manually by the hostel office. The Registration form verification to the different data processing is done manually. Thus there are a lot of repetitions which can be easily avoided. This particular project deals with the problems on managing a hostel and avoids the problems which occur when carried manually

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 users friendly and more GUI oriented. This is a window based system that will help for the administrator to maintain the hostel facilities & administration easily.

This software product the hostel management to improve their services for all the students of the hostel. This also reduce the manual work of the persons in admin panel and the bundle of registers that were search when to find the information of a

previous student, because through this system you can store the data of those students who had leaved the hostel three years ago. Through this you can check the personal profile of all the current students within few minutes the database of the system will help you to check a particular one.

This system can improve the efficiency of the system, thus overcome the drawbacks of the existing system.

2. Background and Motivation

The establishment of the jammiyathul Siddhikiya College and its predecessor, the for jammiyathul Siddhikiya College, no doubt fulfilled the long felt needs of the people of the eastern region. There are 7 stages in the jammiyathul Siddhikiya College. There are four girls' hostels for their students. Still one hostels are under constructing.

The motivation for this project steps from two sources. One being that, this is a project which is suitable for the program project and other being, that with the successful implementation of this project for jammiyathul Siddhikiya College .It could use as a working example for the students how the information technology could be used to simplify daily tasks and increase efficiency. It may also convince the client to take up more IT related projects in future.

3. Problem in brief

After make an observation on the current process of hostel management at jammiyathul Siddhikiya College, it found that every single thing is done completely by manual.

Currently, the college management has decided to make computerized system to maintain hostel facilities. It is because there are facing problem such as corrupted of data. The data about information of student hostel are store and keep not very well and systematically. In the current process, the data are stored into the file but not in the database which is lead to data duplication, repetitive data, and isolation of data from one to another. It is also worried of something happen to the file, then all the data will lost.

In the current manual system, it will very difficult to find the hostel record and other information of student manually. Because it has been keep on the paper and it is easy to loss. It also consumes time to search the paper of student hostel record one by one.

The manual system requires longer time for allocation the student to respective hostel, dorm, and bed. Besides that, the manual application will lead toward a hostel data management for faster student allocation as well as managing the data for faster task such as student's activities, student outing record and managing visitors.

There are number of problems in manual Hostel Management system at jammiyathul Siddhikiya College.

- ♦ More human error.
- ♦ More strength and strain of manual labour needed
- ♦ Repetition of the same procedures.
- ♦ Low security

- ◊ Data redundancy

- ◊ Difficult to handle

- ◊ Difficult to update data

- ◊ Record keeping is difficult

- ◊ Backup data can be hard to generated

4. Aims and Objectives

Aims

Aim of the project is to build a hostel management system, which generate the fast, efficient and secure room booking.

Objectives

The objectives of this project are:-

- ◊ To develop an integrated system for hostel management system.

- ◊ To provide better and fast service to the students

- ◊ To get the better student satisfaction

- ◊ To maintain the process easily and quickly

5. Proposed solution

The Proposed Solution of the manual process of preparing the hostal management is to develop hostel management system. Before developing the proposed system, there is need to identify;

a) The design of the proposed system

b) The main users of a hostel management system

c) The activities of the main users

5.1. The Design

TheproposedsystemwillbedesignedusingPHPandMySQLasthebackend.The size (in terms of memory) of the proposed system will be small.

5.2. The main users

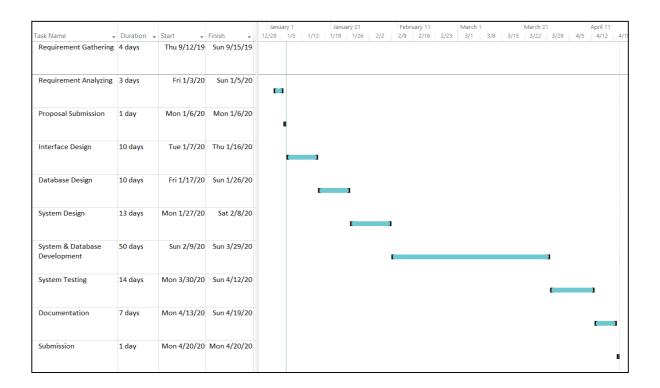Themainusersof theproposedsystemaretheadministrator(wardenorsubwarden)and students.

5.3. Their activities

Administor can:-

a) Register the students

b) Allot different students to the different hostels.

c) Vacate the students for the hostels.

d) Control the status of the fee payment.

e) Edit the details of the students & modify the student records.

❖ Register the students :-To take the membership of the hostel the students should tell the personal information to the hostel management system.

❖ Allotment of the hostels :-There will be pre-defined criteria's for the admission to the hostels. checks the attested Information of the students obtained from them and verify it with the student database. If the students are found eligible then they are allotted to the hostel.

❖ Fess payment:- After registration students have to pay hostel fees, the administrator can enter the payment details in separate window.

❖ Vacating the rooms :-As the student's course is over they will vacate their rooms. So it is required for the administrator to remove their records from the database tables. This section includes the option for the room vacation and the deletion of the particular record from the database.

5.4. Gantt Chart

Task Name	Duration	Start	Finish
Requirement Gathering	4 days	Thu 9/12/19	Sun 9/15/19
Requirement Analyzing	3 days	Fri 1/3/20	Sun 1/5/20
Proposal Submission	1 day	Mon 1/6/20	Mon 1/6/20
Interface Design	10 days	Tue 1/7/20	Thu 1/16/20
Database Design	10 days	Fri 1/17/20	Sun 1/26/20
System Design	13 days	Mon 1/27/20	Sat 2/8/20
System & Database Development	50 days	Sun 2/9/20	Sun 3/29/20
System Testing	14 days	Mon 3/30/20	Sun 4/12/20
Documentation	7 days	Mon 4/13/20	Sun 4/19/20
Submission	1 day	Mon 4/20/20	Mon 4/20/20

6. Resource Requirements

The proposed system need some hardware and software requirments

6.1. Hardware Requirements

PC or Laptop with Minimum Core 2 Duo Processor.
 Minimum 1 GB space in Hard Disk
RAM: Minimum 1 GBRam

6.2. Software Requirements

OperationSystem:Windowes 7 or Above Language:
PHP,CSS & JavaScript Database:Mysql

7. References

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