Sylhet Engineering College, Sylhet

Shahjalal University of Science and Technology

Department of Computer Science & Engineering

Project Proposal

College Department Management System

Course No.: CSE 605
Course Title: Software Engineering and Information System Design

Submitted by

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Introduction

The "College Department Management System" is a web-based application system that manages virtually all kinds of needs, facilities, events or activities of running students, displays the achievement of the department, takes review or feedback to improve services, which is developed, managed, controlled by the academic section of the department. The system will serve the management to reduce cycle times, faster keep track of data, improve the service, increase information sharing and providing facilities to store information centrally.

In the digital world, the demands of person are being increasing day by day. So, it is necessary to develop digitalized management system to give service fast and accurate. College Department Management System automates all the department transactions, internal work flow procedures of the department as well as the interaction with the students and the instructors. Department Management System combines a suit of application specifically designed to bring people, process and technology together towards improving relevance and quality of higher education.

Motivation

The College Department Management System is being developed to fulfill all the needs and requirements at department level. When the demands of students to the administration are growing up and the number of activities increased with rising the number of students, the necessity and importance of the digitalized, diplomatic and computerized department management system concept has been arisen pushing and shoving the prevalent manual management system. College Department Management System application is easy to use. It can work accurately and very smoothly in different scenario. It reduces effort work load and increase efficiency in work. In aspects of time the system is worthy.

Department management system application projects already exist. Approximately all universities have their own website authorized by the academy from where everyone can see the notices, admission circular, result chart of students, description of faculties, detail of students, faculty members and their activities publicly which might be secured, might be not. Actually, the project is still developing and improving its features, services by developers.

Our project will be built using modern developing methodologies which will be more straightforward, simpler and will give us the more success and effectiveness rather than other

developed applications. The project will be more secured. Every student, faculty member and admin panel must have an account in database. Every time, everyone should be login to access the application. Students will can access from the web application which notices, announcements, publishments are sufficient for them.

We will develop our application according to the demands of users, and after all when we will can say that we can give services as our users want, that will be our success. Our project will be open source so that others can edit and transform this system application according to their needs can be a future enhancement in project.

Project Details

Project Features:
- o   Maintain information of all students, lecturers, professors of the department
- o   Generates test results and student's score related to respective subject and development
- o   Reduce error in data management
- o   Centralized database management
- o   Easy and user-friendly interface for the operator of the system
- o   Reduce paper work and time consumption
- o   Computerize the entire activities and operations
- o   Generate report or management take decisions

Project Users:
- o   Admin panel: Admin will login to the system. Admin might be the head of the department. He can send the notice of events or activities in the application. Admin panel registers, login, and stores the records details of students and faculty members in database.
- o   Faculty members: The members should be login to the system to access the application. They can see the activities, class time schedule and some others. Faculty members can upload the class test, quiz test, annual exam result of the students.
- o   Students of the department: As usual, students should be login to the system to access the application. They can see the activities, notice, result and some others, download from the application and can give feedback.

Project Modules:

- o Registration module
- o Feedback module
- o Exam module
- o Upload module
- o Download module

Project Activities:

- o Registration of students, faculty members and admins with sharing their valid information
- o Login System by users
- o Authenticate users controlled by admin panel
- o Manage content pages by admin panel
- o Give feedback by students of the department
- o Manage feedback by admin panel
- o Manage attendance by admin panel
- o Schedule time table specified by faculty members
- o Provide result by faculty members
- o Issue notice
- o Logout

Project Requirements:

Language	HTML5, CSS3, JavaScript, TypeScript
Frontend Tool	React JS
Backend Tool	NODE JS
Database	MySQL
Software	Vs Code, Git, Google Chrome
Server	XAMPP 7.2

Project Environment: This system is a web server that will run on a machine with 24*7 monitoring. User can use this system anywhere. This system can run on any machine. They don't need any high configuration machine.

Operating System	Windows, Linux, Mac OS (16 bit)
Processor	Pentium
RAM	256 MB
Browser	Internet Explorer, Mozilla Firefox, Google Chrome

Use Case Diagram:
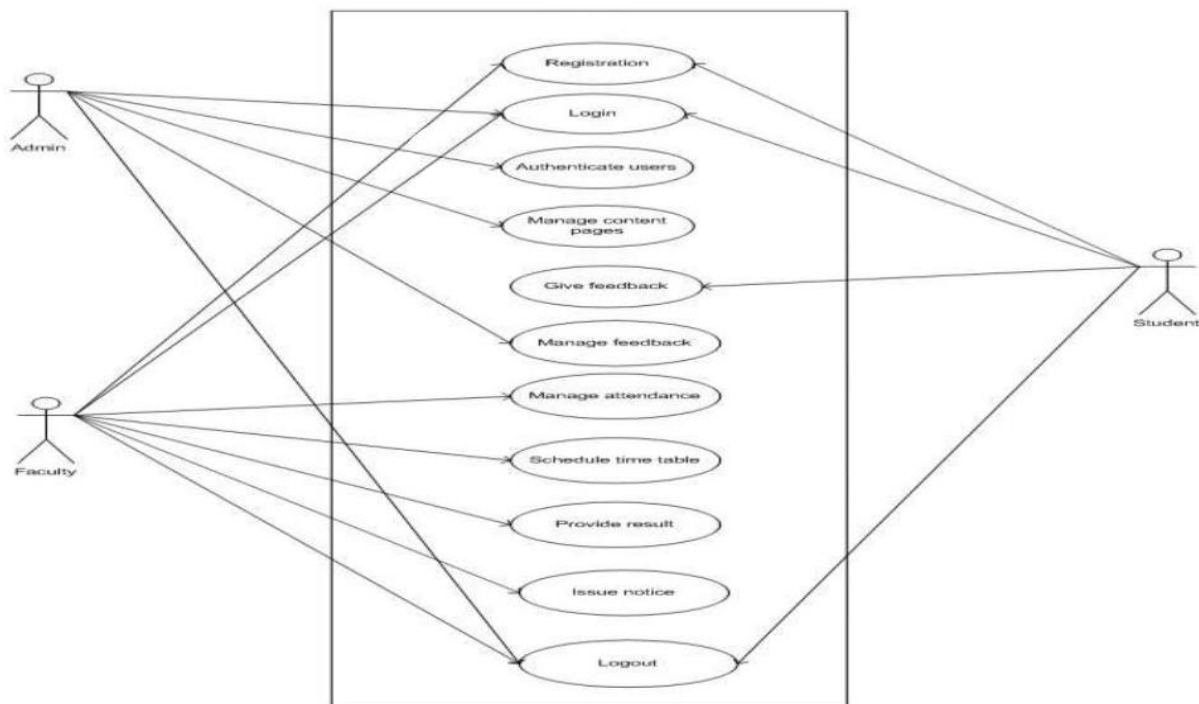
Project Members:

Name	Role in Project
Md. Jabed Dhali	System Designer & Co-Ordinator
Syed Shibli Mahmood	System Developer (Programmer)
Showman Das	System Developer (Programmer)
Johaer Plabon	Technical Writer & Maintainer
Nurul Amin	Technical Writer & Maintainer

Project Timeline:

Task	Progress	Start	Duration	End
Requirement Analysis	62%	13/12/2020	6	18/12/2020
System Design	13%	15/12/2020	13	27/12/2020
Implementation	0%	25/12/2020	31	24/01/2021
System Testing	0%	22/01/2021	10	31/01/2021
System Review	0%	1/2/2021	5	5/2/2021
Technical Writing	0%	5/2/2021	6	10/2/2021
Maintenance	2%	13/12/2020	60	10/2/2021
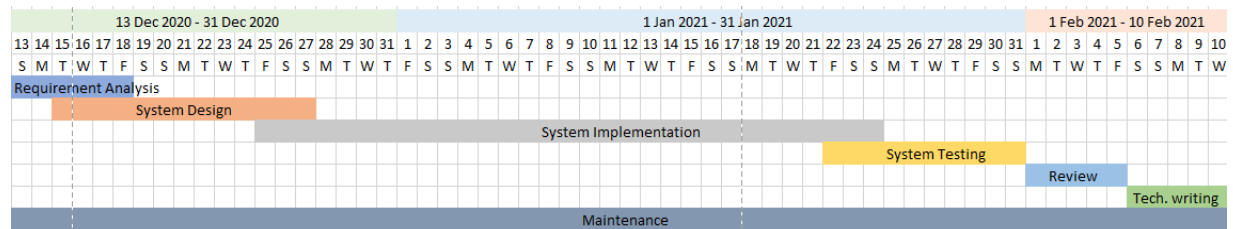
Conclusion

College Department Management System is used by the students of the department, who can visit the frontend allowed section for them and everyone should login to visit. The ability to control, manipulate the system is authorized for the admin panel only, which is the academic section of the department. So, there is no data leakage and it can be handled securely. Delivering such a software to the department it helps to take place task with ease and that's why it reduces time, money, manpower and effort. It will be much helpful for students, teachers, as well as academy of the department.

References

- Volume: 05, Issue: 02, Feb-2018, International Reasearch Journal of Engineering & Technology (IRJET)
- Depatment Management System for Department of Sri Lankan University, by Thuseentha, S.