

A Internship Project Final Report

On

**APPLICATION OF UNIVERSITY MANAGEMENT SYSTEM**

Submitted By:

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IN

COMPUTER SCIENCE AND ENGINEERING

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* Our Project Is Based On University Management And Also Library Management And Hostel Management Are Also Included In This Project.

**ABSTRACT**

UNIVERSITY MANAGEMENT SYSTEM

* University Management System deals with the maintenance of University Information, Student Information, Course Information, Subject Information, Faculty Information, Fees Information, Payment Information within the University.
* University Management System is an automation system, which is used to store the information’s, students record, and information of courses. Starting from registration of a new student in the college, it maintains all the details regarding the attendance and marks of the student.
* The project deals with the retrieval of information through an Intranet based campus wide portal. It collects related information from all the departments of an organization and maintains files, which are used to generate reports in various forms to measure Individual and overall performance of the students.
* Development process of the system starts with System analysis. System analysis involves creating a formal model of the problem to be solved by understanding requirements.

HOSTEL MANAGEMENT SYSTEM

* Hostel Management System deals with the maintenance of Hostel Information, Student Information, Room Information within the Hostel.
* As the name specifies Hostel Management System is a software developed for managing various activities in the hostel.
* For the past few years, the number of educational institutions are increasing rapidly. Thereby the number of hostels are also increasing for the accommodation of the students studying in this institution. And hence there is a lot of strain on the person who are running the hostel and software’s are not usually used in this context.
* 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 user friendly and more GUI oriented.

LIBRARY MANAGEMENT SYSTEM

* Library Management System deals with the maintenance of Library Information, Book Information, Student Information, Issue Book Information, Return Book Information within the Library.
* In the aera of modernization, everything is accomplished or thought to be accessed through internet so that do not need to waste time and face any inconvenience. Using internet, the democratization of knowledge has been easier. The concept of sharing knowledge is centralized in a digital library, which plays a vital role in the dissemination of knowledge and spiritual civilization.
* The level of maintaining a library is closely related to the quality of teaching in University. With the increasing of number of students in University, maintaining a Library using the old Management methods is too much complex and time consuming and hardly possible to adapt to the development of times. To overcome this situation appeared in most of the middle level countries like Bangladesh, authors develop an automated digital library management system.
* The main features of this software are user interactive graphical representation (using bar diagram and pie chart) of the total number of books requested, books uploaded, yearly books count etc. Besides, notifications and reports are viewed instantly for corresponding users. That is, the developed automated library management software would meet the needs of the growing students and teachers demand.

**INTRODUCTION**

UNIVERSITY MANAGEMENT SYSTEM

* The University Management System is developed to override the problems prevailing in the practicing manual system, this software is supported to eliminate and some cases reduce the hardships faced by this existing system. Moreover, this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.
* The Application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus, by this all it proves it is user-friendly. University Management System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus, it will help organization in better utilization of resources.
* Every Organization/University, whether big or small, has challenges to overcome and managing the information of Student, Faculty, Registrations, Course, Subject, Fees at the management level. This is designed to assist in strategic planning and will help you ensure that your organization is equipped with the right level of information and details for your future goals.

* Also, for those busy executives who are always on the go, our systems come with remote access features, which will allow you to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources.

HOSTEL MANAGEMENT SYSTEM

* This Hostel Management System is developed in favor of the hostel management team which helps them to save the records of the students about their rooms and other things. It helps them from the manual work from which it is very difficult to find the record of the students and the information about those ones who had left the hostel years before.
* This solution is developed on the plight of the hostel management team, through this they cannot require so efficient person to handle and manage the affairs of the students in the hostel, all you need to do is to login as administrator and you can see the information of all the students who have obtained and registered their hostel form, click verify to ascertain their eligibility and allocate them to the available hostel.
* Identification of the problems of the existing hostel management leads to the development of computerized solution that will be compatible to the existing hostel management with the solution which is more users friendly and more GUI oriented. We can improve the efficiency of the hostel management, thus overcome the drawbacks of the existing management.

LIBRARY MANAGEMENT SYSTEM

* A library is a place where a huge collection of books and resources are available which can be accessible by the users. It acts as a brain for the institutions. It enhances the dissemination of knowledge and spiritual civilization among the students. The tons of books and research works are captivating the students to improvise their knowledge in all perspectives. It guides the students to promote their views differently.
* This knowledge optimizes the student to achieve a better result in academic as well as personal skill development. Improvisation in technology causes the demand for developing a way to enhance the traditional library set up to digital one. Numerous tedious processes reduce the efficiency of the library. For example, it always needs manual support to do any activities in the traditional library.
* The count and details of books are scribbled in the paper for reference. Each data is fetched in the notebook for future citations. To examine any data then they have to refer the notebooks. At the same time while distributing the books to the students they have to enter into the notebook where they need to represent the book id, distribution and renewal date, and student id.
* The librarians/staff have to assign a tag for each book and provide an id for it. They have to align and arrange the books on the shelves and marked it. Missing or theft of the book builds a serious issue and confusion to the librarians. While collecting the book from the students they have to verify the penalties of the books. Therefore, it causes a monotonous among the staff. Consequently, it builds an uninteresting among the student due to the slow progress of the staff. To evoke the library into the technological era, we presented a system called the Library Management System. It is an automatic system that reduces the work burden of the staff/librarians through a single click.

**BENEFITS**

UNIVERSITY MANAGEMENT SYSTEM

* A good university management system ensures improved academic delivery, working efficiency and better student achievements. It provides several benefits for candidates, staff and the organization. As the education landscape is experiencing a steady change, it has become essential for Universities to use an innovative university management system to overcome present and future issues.

1. Improved Transparency :-

* There are various Universities which have suffered due to lack on non-transparent processes in Result processing or Procurement. University Management System implementation helps change this.

1. Improved Efficiency :-

* Due to faster processes and central data repository the management will experience a significant rise in the efficiency on all dimensions.

1. Improved Accountability :-

* Manual tasks are hard to control and mistakes in such processes difficult to find. This system will bring all the jobs under an accountable umbrella.

1. Simple to Accumulate Information :-

* Gathering of information about different departments inside a university regularly turns out to be very difficult. With a university management system, the administration will have the capacity to assemble, process, comprehend and record information faster at any time.

1. Improved Level of Comfort :-

* University is essentially meant for students, who regularly think that its extreme to convey and communicate things with the management. The university management system helps to build a platform for integrating all stakeholders like faculty, management and students.

HOSTEL MANAGEMENT SYSTEM

* Managing a hostel is a tedious task that needs a lot of supervision and can be time consuming. The hostel management system is a dynamic as well as practical approach as it makes managing the boarding and other related facilities a lot easier.
* An online hostel management system ensures that record management and flawless execution of administrative tasks such as managing hostel applications, registration forms, allotment of rooms, fees management, mess payment management, disciplinary issues and easy communication with students and parents.
* The hostel administration team can access all the hostel data and manage the workflow from their device at all times - ensuring that updates are made in real time and notifications to parents can also be sent in real time.
* One of the key benefits of a hostel management system is that it reduces the burden on the administration staff an simplifies roles and responsibilities as most of the manual tasks and mundane paperwork can be done through the online system.
* Another important benefit of implementing such a system is that it brings in the transparency in the entire management which helps to develop a trust between the students and the management.
* The Benefits of Hostel Management System
* It is less time and effort consuming
* It makes the process of updating the data is fast
* It automates mundane tasks
* It secures the data of the students
* It reduces the manual work of management
* It enhances the reputation of the educational institute

LIBRARY MANAGEMENT SYSTEM

* Among all the people in the schools who help to run it successfully on a daily basis, the most important among them are the librarians. Their work helps in keeping books as well as other educational materials nicely organized that makes it simple for teachers and students to find the correct content at the right time and boost their education. No matter whether it is literature, new media content or video you are looking for, the good librarian will help you to find it.

1. Up - To - Date :-

* This keeps details of the books, magazines or other materials available in the library as per their categories. The addition or removal of the books is simple as the software updates the records in one fraction.

1. Student Involvement :-

* The students can login & browse through the different books present in the library, it is one simple searching option and leads to more student engagement in the library.

1. Record Maintenance :-

* The borrower details will be stored & maintained, and due return date is set based on the categories and fine calculation begins when due date gets skipped.

1. Web Interface :-

* School library is accessible to the students since they have access to the web interface by which they can easily check out the borrowing history, apply for the renewal, due dates, and view fine. It develops the better weather in the school because students feel highly connected with the information being accessible to them.

1. Progressive :-

Library & book management of the school goes online that proves as the step towards the academic growth that leads to the school development.

**HARDWARE REQUIREMENTS AND SOFTWARE REQUIREMENTS**

HARDWARE REQUIREMENTS

* Hard Disk :- 500 GB
* RAM :- 8 GB
* System :- Intel Core I3 Processor.
* Monitor :- Standard LED Monitor.
* Input Devices :- Keyboard

SOFTWARE REQUIREMENTS

* Operating System :- Windows 10
* Languages :- Java
* Technologies :- NetBeans IDE 8.2
* Data Base :- My SQL

**FEATURES**

UNIVERSITY MANAGEMENT SYSTEM

* Student & Faculty Login
* University Login
* Change UserName and Password
* Student Information
* Add New Admission Student University
* Student Details
* View Student Details
* Update Student Details
* Delete Student Details
* Student Admission Cancel Details
* Faculty Information
* Add New Admission Faculty
* Faculty Details
* View Faculty Details
* Update Faculty Details
* Delete Faculty Details
* Faculty Admission Cancel Details
* Course Information
* Add New Course
* Delete Course Details
* Subject Information
* Add New Subject
* Subject Details
* View Subject Details
* Fees Information
* Add Student Fees
* Fees Details
* View Fees Details
* Update Fees Details
* Payment Information
* Faculty Payment Details
* Employee Payment Details

HOSTEL MANAGEMENT SYSTEM

* Hostel Login
* Hostel Information
* Add New Admission Student Hostel
* Student Details
* View Student Details
* Delete Student Details
* Room Information
* Add New Room
* Room Details
* Change Room Details
* Update Room Details
* Employee Information
* Add New Employee
* Employee Details
* View Employee Details
* Update Employee Details
* Delete Employee Details
* Employee Cancel Details
* Student Leave Information
* Student Leave Application

LIBRARY MANAGEMENT SYSTEM

* Book Information
* Add New Book
* Book Details
* View Book Details
* Update Book Details
* Issue Book Information
* Add Issue Book
* Issue Book Details
* Add Return Book
* Return Book Details
* Statistics

**PROPOSED SYSTEM**

UNIVERSITY MANAGEMENT SYSTEM

* University Management System make management to get the most updated information always by avoiding manual accounting process. This system has the following functional divisions.
* University Administrator College Administrator User (Students / Faculties) University Administrator has the functionality of registering new colleges and courses.
* College Administrator has the rights of creating department, allocating courses to departments, creating faculties, students and allocating subjects to faculties, and modification sin the data entered by the user can also be done by the college administrator.
* User of this may be faculty or students. Faculty has the facility of entering the marks and attendance of the students. Students can check their mark sand attendance but there is no chance of modifications.
* Reports must be generated for the existing data i.e., for attendance and marks of the students, which are used to assess the performance of the students. These reports should be viewed by the in charge and user.

HOSTEL MANAGEMENT SYSTEM

* This project is aimed at developing a system for keeping records and showing information about or in a hostel. This system will help the hostel officer to be able to manage the affairs of the hostel. This system will provide full information about a student in the hostel. It will show rooms available or not and number of people in a particular room. This will also provide information on students who have paid in full or are still owing. This system will also provide a report on the summary detail regarding fees and bills students are owing. Also included is a user module for employees or the hostel officer. There will also be an administrator module which will accessed by the administrator and has the ability to delete, add and edit employee records.
* This system will be developed based on Software Development Life Cycle (SDLC) with PHP and My SQL server. PHP is good for the development and design of web-based programs whiles My SQL is good for databases because of its security and its advanced features and properties.

LIBRARY MANAGEMENT SYSTEM

* The proposed Online Library Management System project will help the students and librarian to maintain the details of the library. It will assist the librarian before the shortage of books while they can know the details of the number of currently available in the library according to the author by accessing the system. A student can view the details of the book issued by them, and the system will notify the students about the last date of submission of books. At the time of issue of a book, the student will get assisted by the system about different authors of a similar book so that they can get the best available book from the library.

**CONCLUSION**

UNIVERSITY MANAGEMENT SYSTEM

* It has been a great pleasure for us to work on this exciting and challenging project. This project proved good for us as it provided practical knowledge of not only programming in ASP.NET and C#. Net web-based application and no some extent Windows Application and SQL server, but also about all handling procedure related with

server, but also about all handling procedure related with “UNIVERSITY MANAGEMENT SYSTEM”. It also provides knowledge about

“University Management System”.

* It also provides knowledge about the latest technology used in developing web enabled application and client server technology that will be great demand in future.

server, but also about all handling procedure related with “UNIVERSITY MANAGEMENT SYSTEM”. It also provides knowledge about

* This will provide better opportunities and guidance in future in developing projects independently.

HOSTEL MANAGEMENT SYSTEM

* Hostel Management is a user-friendly and Customization software for student Hostel. Hostel management system has been developed to manage and automate the over-all processing of any large student hostel.
* Hostel management system project is capable of managing hostel rooms, student records and room allocation process etc. Hostel Management System is a user-friendly and customize software for providing support for hostel admin.

LIBRARY MANAGEMENT SYSTEM

* The evidence gathered in this report reflects ongoing progress toward more openness in library automation systems, but also that much work remains. We see a variety of options and opportunities. Libraries that expect to work with their automation system as delivered and not become involved in local extensions or programming will find that the majority of systems were built for that kind of use. For libraries that want to do more with their automation systems, however, we see a great deal of functionality possible today through open interfaces with momentum toward creating much more.
* The hype persists. Library automation systems, proprietary and open source alike, compete more and more on the basis of enabling libraries to do more with their systems. That competition for openness drives the development of the technologies that enable that capability. The reality is still a bit messy.

**REFERENCES**

* Google.com
* Java Tutorial