**Chapter No. 1**

**Introduction**

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The development in the field of science and technology has improved the efficiency of the data processing mechanisms. These mechanisms allow one man to do what previously required the time and effort the dozens. These mechanisms are developed for the ease and benefit of human begins. These mechanisms are not for specific fields or purpose. They are beneficial for men in many different ways. They impact the every aspect of life.

The purpose of this computerized education system is that by using this user can save time and many. Further the result obtained from this system will be much more accurate. It makes the best attempts to designs this project in easy and comprehensive ways and adopted easy configuration of software for a lay man who can easily handle the objects happened during this project. The Department of Computer science was officially established in 1995. However, MCS. Computer science program had already been started since 1988. Today, the department provides an excellent educational environment that aims are brings the out best. As the computing industry matures, professional qualifications become more and more essential.

The student in the Department of Computer Science have almost unlimited access to computers and the professional software tools that go with them. The Department has 10 teaching laboratories/interactive class room which are equipped with more than 400 Pentium IV/III based Multimedia PC’s loaded with windows NT, windows 2000 professional, Linux operating systems, SUN V890 Server, SUN StorEdge6610 SAN and SUN ULTRA SPARC enterprise system with 40 SUN RAY-I Unix workstations. All these teaching laboratories/interactive class rooms are networked to ten common Dual and Quad Pentium III Xeon based servers. They are also connecting to the University Fiber Optic based campus LAN and to the outside world via Internet. Each of them is fitted with an overhead multimedia projector.

* 1. **Introduction to Project**

The project name **“Online Campus Management System”** is basically about how to manage an educational institute online. This system helps to improve the efficiency level of an educational institute, through this system the administration of an educational institution can easily manage the whole process of online, with the help of this system the administration can maintain the information related to,

1. Student Records.
2. Teacher Records.
3. Course Records.
4. Assignments Records.
5. Attendance Records.
6. User’s Records.
7. Class Records.

**OCMS** basically depends on three major types of consoles,

1. Admin Console.
2. Student Console.
3. Teacher Console.

**1.2 Motivations for this Project**

As the number of students is increasing day by day, with the passage of time handling this largest scale information becomes increasingly difficult. To overcome these problems a computer based system is required. Computerization means the automation of the system, which was previously working manually, was slow. After computerization is sophisticated and technical job and is to be required a comprehensive study of the system, So that the system analyst can understand the whole system, its weakness and drawbacks. Further this system provides information within seconds and the management enjoys this facilities.

There are many factors that forced me to select this project. The most important factor is time consuming, because the system is manual and it is very slow and takes a long time to get the information about any entity. For example if we need to get the information which student is enrolled in which course and which program that offers these course and which subjects have this course. To know this information first we need the register or a document that tells us which program offers these courses; secondly we need which students are enrolled in this program; thirdly we need a document that tell which students enrolled in the course.

To get simple information about any student it takes a long time, so to reduce these documents and time slice I motivate to make this project. This project not also reduces the documents but also reduce the time slice that is very important. Any kind of information about any student any time is far at a single click.

**1.3 Objective**

This is a web oriented application allows us to access the whole information about the college, staffs, students, facilities etc. This application provides a virtual tour of Campus. Here we will get the latest information about the students and staffs. This generic application designed for assisting the students of an institute regarding information on the courses, subjects, classes, assignments, grades and timetable. It also provides support that a faculty can also check about his daily schedule, can upload assignments, and notices to the students. Here administrator will manage the accounts of the student and faculties, makes the timetable, and upload the latest information about the campus.

**1.4 Project Overview:-**

Basically this system consists of three major consoles,

1. Admin Console.
2. Student Console.
3. Teacher Console.

**1.4.1Admin Console:-**

In the admin console we have 9 different fields,

1. Classes.
2. Teachers.
3. Lectures.
4. Users.
5. Add class.
6. Add Course.
7. Add User.
8. Reports.
9. Logout.
10. **Classes:-**

In this field we can see the no. of classes added in our database, alone with the name and session of the class. By selecting a particular class we can also see the no. of students added in the class. We can also delete a particular class by simply pressing the button of delete.

1. **Teachers:-**

In this field we can see the no. of teachers added in our database. We can also delete the record of a particular teacher.

1. **Lectures:-**

In this field we can see the record of the overall lectures, alone with the ID of the class and the name of the course. By a simple click we can also see the detail of a particular lecture which includes lecture ID, class ID, Teacher name, Type of lecture, starting and ending dates, starting time and room no. We can also delete the record of a lecture.

1. **Users:-**

In this field we can see the total no. Of the users, type of the users, and ID of the users. We can also delete the record of a particular user.

1. **Add class:-**

By clicking on this field a new window will appears, with the help of that window we can add a new class by putting the information regarding to class ID, session, semester and no. of subjects thought in that class.

1. **Add course:-**

By clicking on this field a new window will appears, with the help of that window we can add a new course by putting the information regarding to class ID, teacher, course name, type, starting and ending date, starting time, room no. , duration and description of the course.

1. **Add user:-**

By clicking on this field a new window will appears, with the help of that window we can add a new user by providing the information regarding to user ID, password, user type.

1. **Reports:-**

By clicking on this field a new window will appears, with the help of that window we can see the reports of the students, classes, courses, assignments, attendance and teachers.

1. **Logout:-**

By clicking on this field you can logout from the admin console.

**1.4.2 Student Console:-**

In the student console we have 4 different fields,

1. Courses.
2. About.
3. Help.
4. Logout.
5. **Courses:-**

In this field we the see the list of the courses and their detail.

**b) About:-**

In the field we can see the information regarding to the organization.

**C) Help:-**

In the field we can see the information regarding to the user help and contacts of the organization.

**D) Logout:-**

By clicking on this field you can logout from the student console.

**1.4.3 Teacher Console:-**

In the teacher console we have 4 different fields,

* 1. Courses.
  2. About.
  3. Help.
  4. Logout.

1. **Courses:-**

In this field we the see the list of the courses and their detail.

1. **About:-**

In the field we can see the information regarding to the organization.

1. **Help:-**

In the field we can see the information regarding to the user help and contacts of the organization.

**D) Logout:-**

By clicking on this field you can logout from the teacher console.

**1.5 Scope of this Project**

* College information: Through this service one can access the complete information about the college campus such as courses available, admission procedure, placements, college events, achievements etc.
* Student tracking: Any company or any organization that want to check the summary about the student of the college, so that they will be able to choose the particular students for their campus placement And for that purpose they will be given a particular link through which they can access the information required.
* Student attendance status: It gives the attendance status of students. Faculty will update the attendance periodically and can be seen by students and parents.
* Student’s performance in exams: This facility provides the performance of the student in each exam which is conducted by university or college such as midterm performance. Marks obtained by students in exams will be updated by faculties that can be access by students and parents.
* Exam Notification: This facility notifies students and parents about examination schedule.
* Events: It will give information about different events that will be conducted by college time to time. Information about these events will be updated by administrator.
* Online assignments: This service provides the facility to faculty to upload assignments and to students to submit these assignments online.
* Information about staff: It will help in maintaining complete information about college faculty members such as their department, cadre, date of joining, salary, etc. Administrator will register new faculties and remove their account when they leave the college.