

**A
PROJECT REPORT
ON
“COLLEGE ATTENDANCE SYSTEM”**

**SUBMITTED TO
BHAVAN'S SHREE H.J. DOSHI INFOTMATION
TECHNOLOGY INSTITUTE,
JAMNAGAR
AFFILICATED TO
SAURASHTRA UNIVERSITY, RAJKOT**



**FOR THE COURSE OF
BACHELOR OF COMPUTER APPLICATION (5th SEM)**

SUBMITTED BY:

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UNDER THE GUIDENCE OF

RAVI SIR

ACKNOWLEDGEMENT

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INTRODUCTION

Attendance Management System is a software developed for daily student attendance in schools, colleges and institutes. It facilitates to access the attendance information of a particular student in a particular class. The information is sorted by the operators, which will be provided by the teacher for a particular class. This system will also help in evaluating attendance eligibility criteria of a student.

Purpose:-

The purpose of developing attendance management system is to computerized the tradition way of taking attendance. Another purpose for developing this software is to generate the report automatically at the end of the session or in the between of the session.

Scope:-

The scope of the project is the system on which the software is installed, i.e. the project is developed as a desktop application, and it will work for a particular institute. But later on the project can be modified to operate it online.

HARDWARE AND SOFTWARE REQUIREMENTS

Hardware Requirements:

- Pentium III or Advanced Processor
- 512 MB RAM
- 20 GB Hard disk or onwards
- Monitor 1024 * 768 resolutions

Software Requirements:

- Windows 2007
- Microsoft SQL Server 2012
- Microsoft Visual Studio 2012

ECONOMICALLY FEASIBILITY

The system being developed is economic with respect to School or Collage's point of view. It is cost effective in the sense that has eliminated the paper work completely.

The system is also time effective because the calculations are automated which are made at the end of the month or as per the user requirement.

The result obtained contains minimum errors and are highly accurate as the data is required.

TECHNICAL FEASIBILITY

The technical requirement for the system is economic and it does not use any other additional Hardware and software.

BEHAVIORAL FEASIBILITY

The system working is quite easy to use and learn due to its simple but attractive interface. User requires no special training for operating the system.

WORKING OF PRESENT SYSTEM

In the present system all work is done on paper. The whole session attendance is stored in register and at the end of the session the reports are generated. We are not interested in generating report in the middle of the session or as per the requirement because it takes more time in calculation.

DISADVANTAGES OF PRESENT WORKING SYSTEM

Not User Friendly:

The existing system is not user friendly because the retrieval of data is very slow and data is not maintained efficiently.

Difficulty in report generating:

We require more calculations to generate the report so it is generated at the end of the session. And the student not get a single chance to improve their attendance.

Manual control:

All calculations to generate report is done manually so there is greater chance of errors.

Lots of paperwork:

Existing system requires lot of paper work. Loss of even a single register/record led to difficult situation because all the papers are needed to generate the reports.

Time consuming:

Every work is done manually so we cannot generate report in the middle of the session or as per the requirement because it is very time consuming.

CHARACTERSTIC OF THE PROPOSED SYSTEM

User Friendly:

The proposed system is user friendly because the retrieval and storing of data is fast and data is maintained efficiently. Moreover the graphical user interface is provided in the proposed system, which provides user to deal with the system very easily.

Reports are easily generated:

Reports can be easily generated in the proposed system so user can generate the report as per the requirement (monthly) or in the middle of the session. User can give the notice to the students so he/she become regular.

Very less paper work:


The proposed system requires very less paper work. All the data is feted into the computer immediately and reports can be generated through computers. Moreover work become very easy because there is no need to keep data on papers.

Computer operator control:


Computer operator control will be there so no chance of errors. Moreover storing and retrieving of information is easy. So work can be done speedily and in time.

DATA TABLE


User Table

Clg Users			
	Column Na...	Data Type	Description
	UserID	int	Generate User_ID
	User_Name	varchar(50)	Stores User Name
	User_Pass	varchar(50)	Stores User Password


Student Table

Clg StudInfo			
	Column Name	Data Type	Description
	Stud_ID	int	Generate Student ID
	Stud_Name	varchar(50)	Stores Student Name From Application
	Stud_Gen	varchar(50)	Stores Student Gender 'Male' or 'Female'
	Stud_BthDate	varchar(50)	Stores Student Birth Date
	Stud_Address	varchar(MAX)	Stores Student Address
	Stud_ContNo	varchar(MAX)	Stores Student Contact Number
	Stud_EmailID	varchar(150)	Stores Student Email-ID
	Stud_Course	varchar(150)	Stores Student Course Name That In Which He/She Belongs
	Stud_Semester	varchar(150)	Stores Student Semester That In Which He/She Belongs to Course
	Stud_IsAct	bit	Stores Student Is Active or Not


Attendance Table

Clg Attendance			
	Column Name	Data Type	Description
	Attendance_ID	int	Stores Attendance ID
	Stud_ID	int	Stores Student ID From Clg_StudInfo Table
	Stud_Name	varchar(50)	Stores Student Name From Clg_StudInfo Table
	Course_Name	varchar(50)	Stores Course Name From Clg_StudInfo Table
	Sem_Name	varchar(50)	Stores Semester Name From Clg_StudInfo Table
	Sub_Name	varchar(50)	Stores Subject Name From Clg_StudInfo Table
	Date	date	Stores Date
	Attendance	char(10)	Stores Student Attendance Present Or Absent


Course Table

Clg Course			
	Column Na...	Data Ty...	Description
	Course_ID	int	Generate Course_ID
	Course_Na...	varchar...	Stores Course Name
	IsActive	bit	

Semester Table

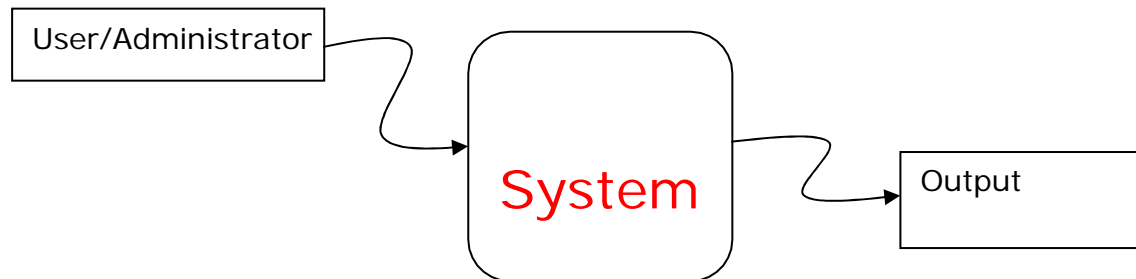
Clg Semester			
	Column Na...	Data Type	Description
	 Sem_ID	int	Generate Semester ID
	Sem_Name	varchar(50)	Stores Semester Name
	Course_ID	int	Stores Course ID From Clg_Course Table

Subject Table

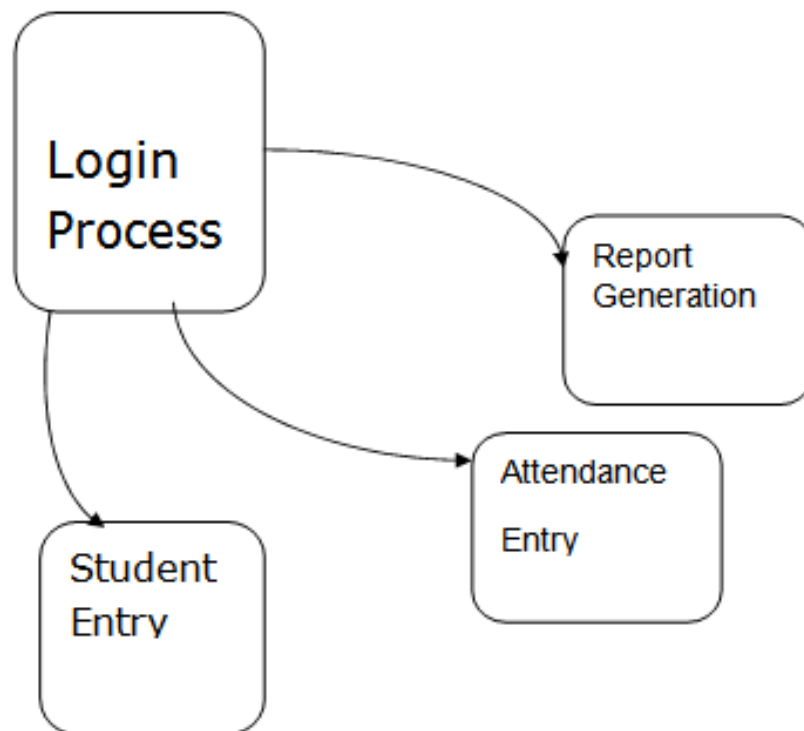
Clg Subject			
	Column Na...	Data Type	Description
	 Sub_ID	int	Generate Subject ID
	Sub_Name	varchar(50)	Stores Subject Name
	Course_ID	int	Stores Course ID From Clg_Course Table
	Sem_ID	int	Stores Course ID From Clg_Semester Table
	IsActive	bit	

DATA FLOW DIAGRAM

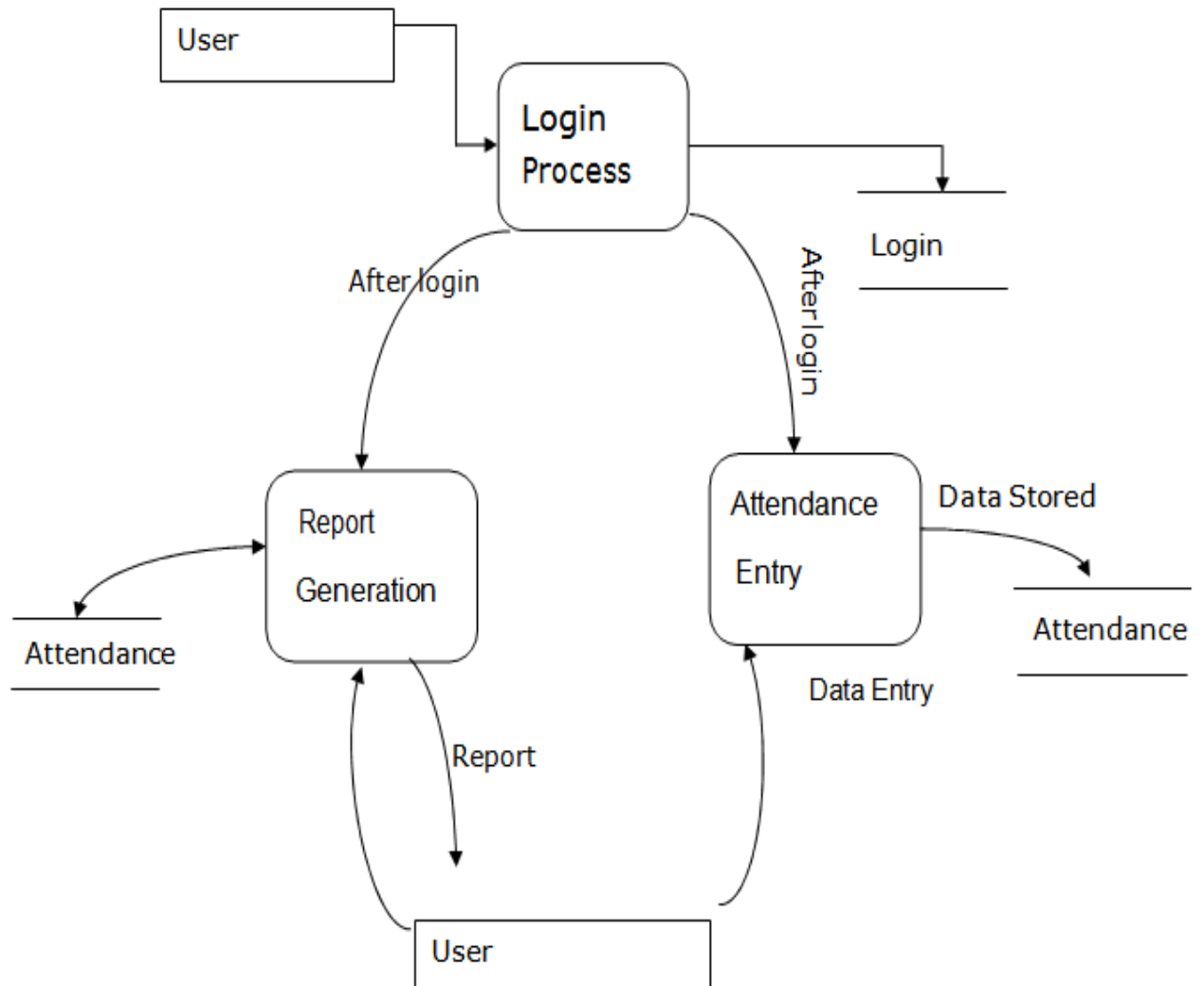
0-level DFD:



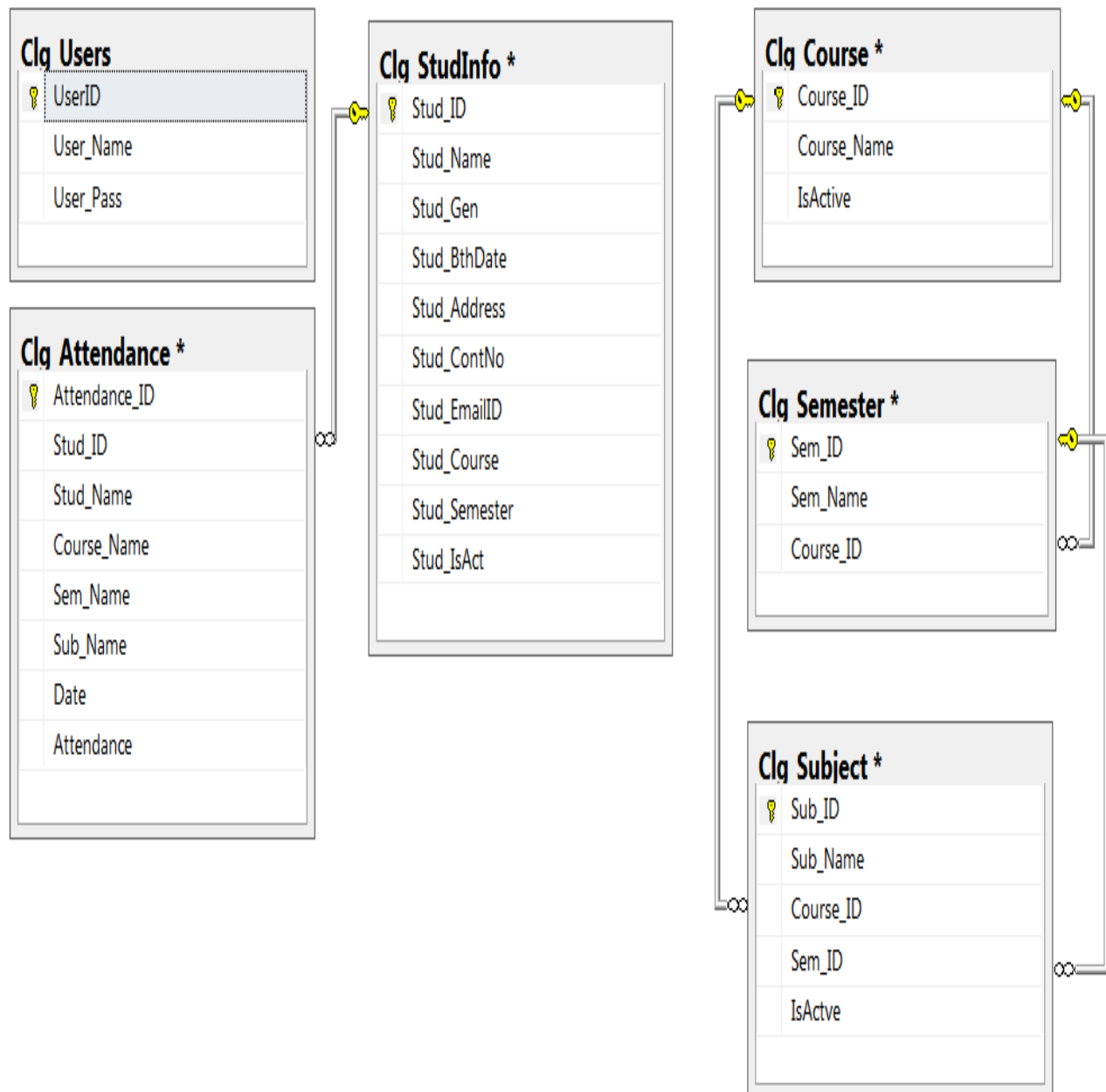
1-level DFD



2-level DFD

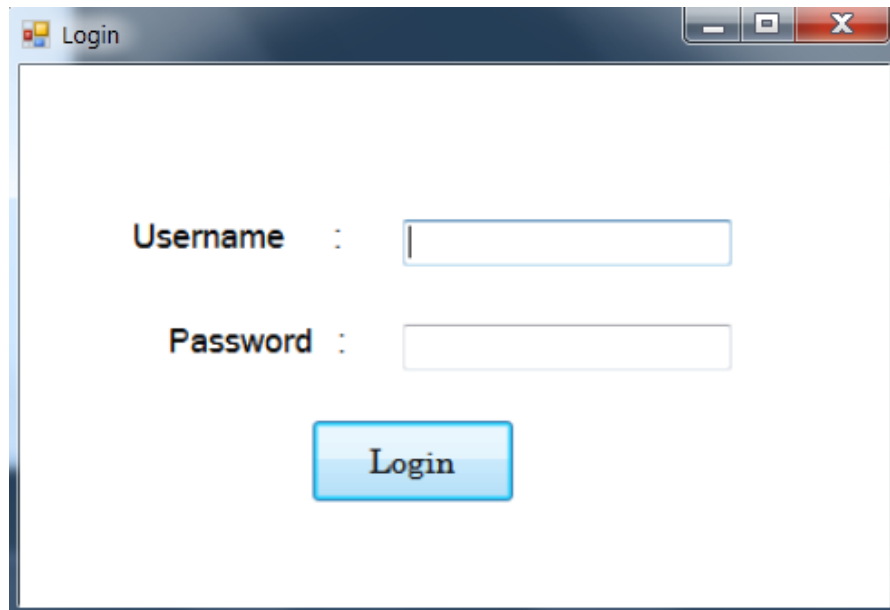


E R DIAGRAM



SCREEN SHOTS

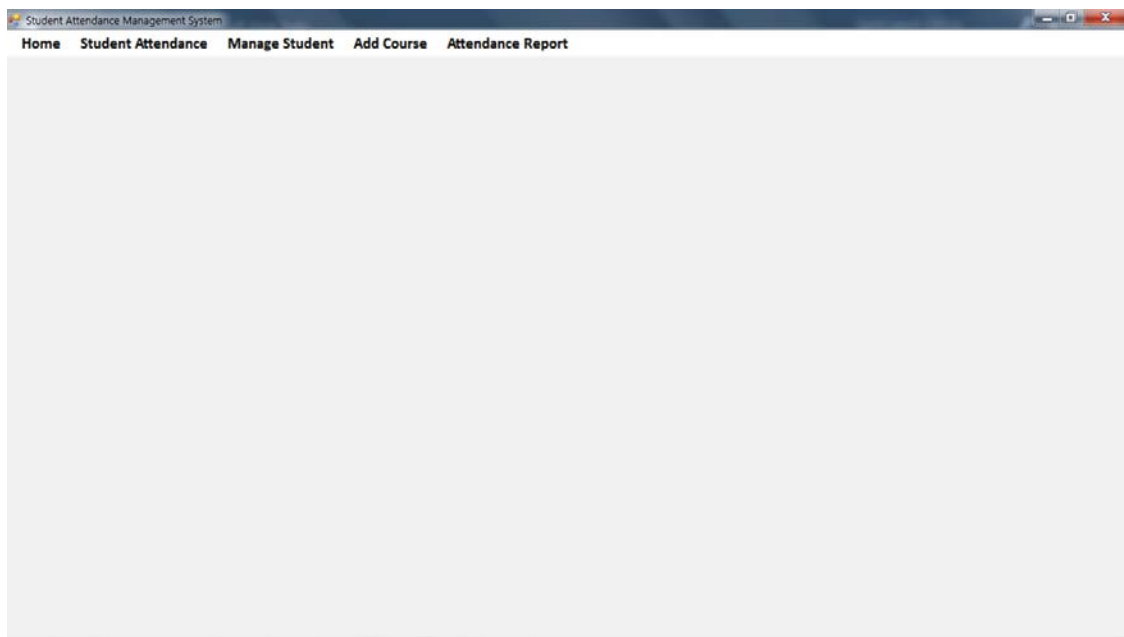
1. Login Form :



The screenshot shows a standard Windows application window with a title bar that says 'Login'. Inside the window, there are two text input fields. The first is labeled 'Username :' and the second is labeled 'Password :'. Below these fields is a single button with the text 'Login' on it. The window has standard minimize, maximize, and close buttons in the top right corner.

This login Form is made For Security purpose. So only Authenticated User only Access in to the Project.

2. Home Page



This form is showed when authorized User enters his correct User Name and Password. This Form gives the option to Manage Student,Take Student Attendance and View Report Of Attendance.

3. Student Information Form

ID : 1

Name :

Gender : ☒ Male ☐ Female

BirthDate :

Address :

Contact No :

Email ID :

Course :

Semester :

Add

Edit

Delete

Cancel

ID	Name	Birth Date	Gender	Address	Contact No	Email ID	Course	Semester
1	Taher	03-12-2020	Male	Mulla Medi	7405252353	taherhadiyanawa	BCA	Sem-6
5	Vivek	01-06-2000	Male	Ranjit Road	987456311	vivekgori@gmail	BCA	Sem-5
6	Rutvik	23-03-2000	Male	Gurudwara	123456	rutvik@gmail.co	BCA	Sem-6
7	Raj	06-03-2002	Female	Bardhan Chowk	7654123009	raj52@gmail.com	BCA	Sem-1
8	Rohit	24-12-2002	Male	DhanSheri	9654123564	rohitshetty@gm	BCA	Sem-2

Search Student

This is 1 OF 1 Recrod

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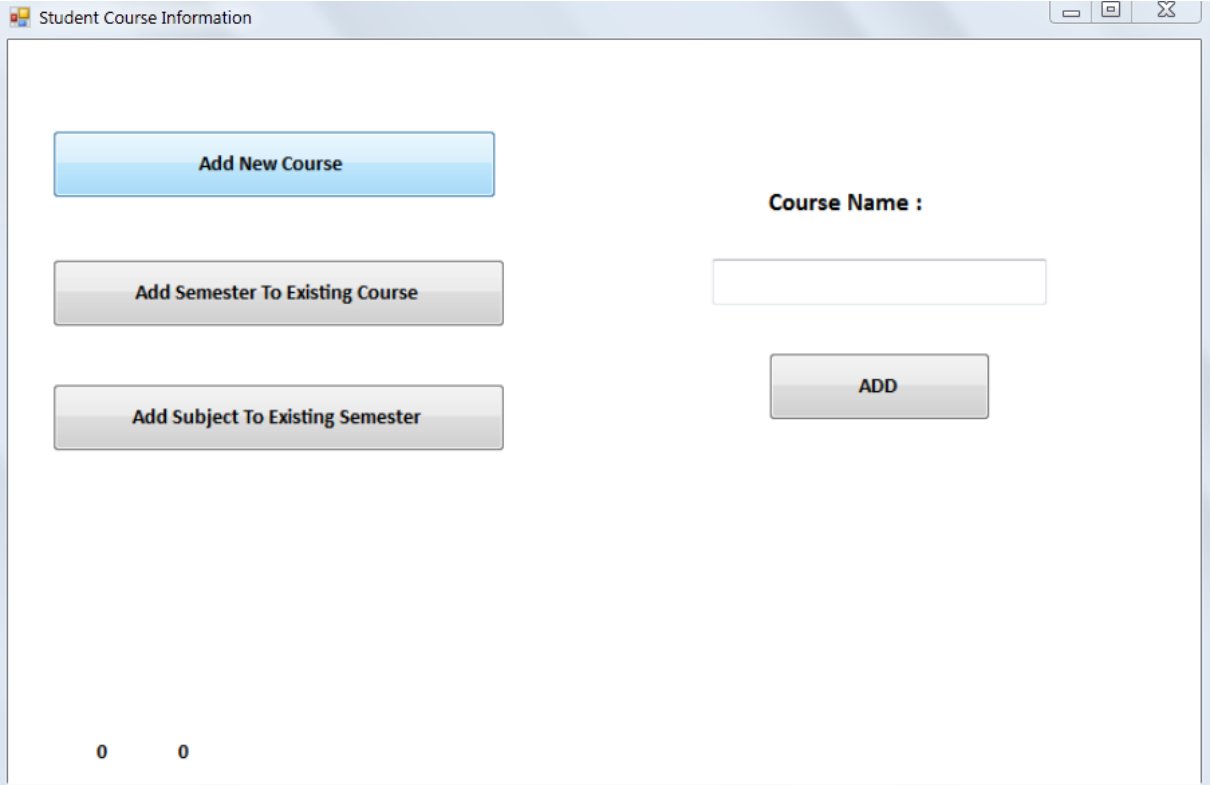
>

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This form enables the User to fill the Students Details and there Semester where the Student Id will change automatically when a Student is saved in the Database.

In This Form User Also Search Student and Edit Or Delete The Record Of Student.

4. Course Management Form

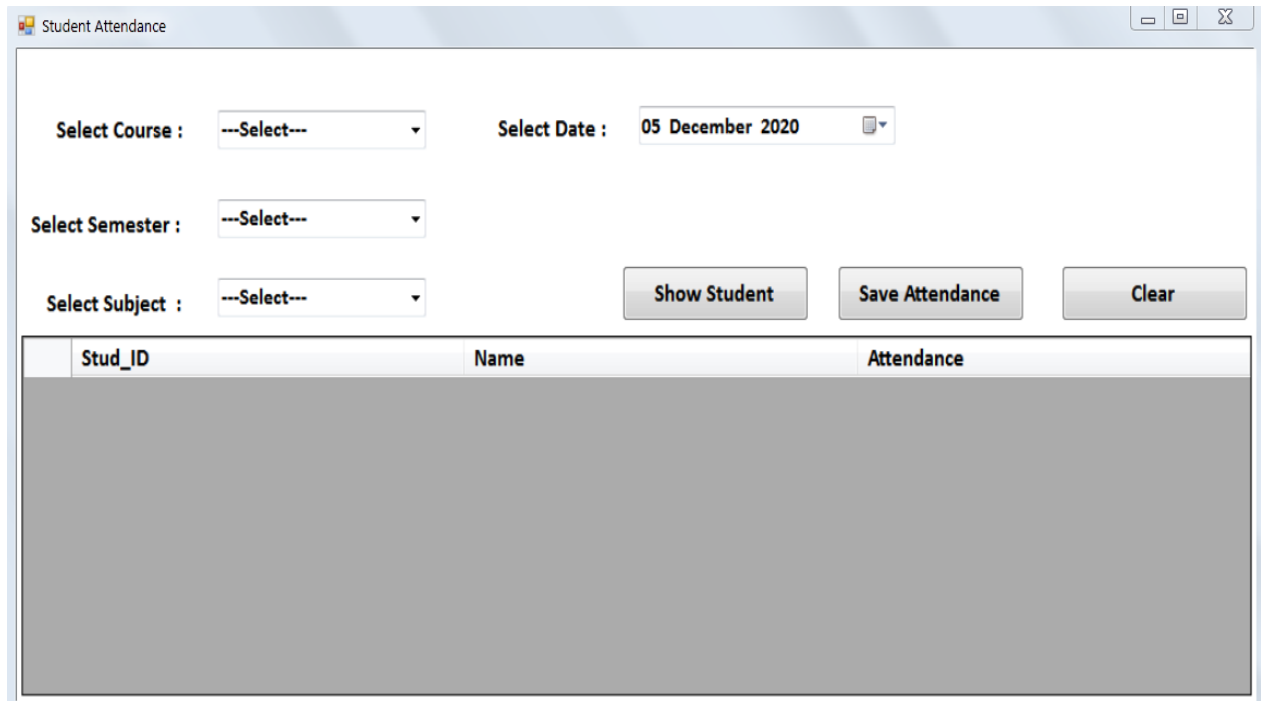


The screenshot shows a window titled "Student Course Information" with standard Windows window controls (minimize, maximize, close) in the top right corner. The window contains a form with the following elements:

- On the left side, there are three buttons stacked vertically:
 - Add New Course** (blue button)
 - Add Semester To Existing Course** (grey button)
 - Add Subject To Existing Semester** (grey button)
- On the right side, there is a label **Course Name :** followed by a text input field.
- Below the text input field is a grey button labeled **ADD**.
- At the bottom left of the window, there are two small, faint "0" characters.

This Form is made for User to Add New Course, Add Semester To Existing Course And Subject.

5. Attendance Form



The screenshot shows a web application window titled "Student Attendance". It contains three dropdown menus for "Select Course", "Select Semester", and "Select Subject", all currently showing "---Select---". To the right of these is a date picker for "Select Date" showing "05 December 2020". Below the dropdowns are three buttons: "Show Student", "Save Attendance", and "Clear". At the bottom is a table with three columns: "Stud_ID", "Name", and "Attendance". The table body is currently empty and has a grey background.

Stud_ID	Name	Attendance
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This form is made to take Student Attendance and Store Attendance in Database and Generate Report Of Attendance

This Form is used to choose subjects and the month for which attendance is to be filled up and show a list of students. When a User click to corresponding Check box and click on save the students will be stated present and their attendance is added.

CONCLUSION

The Attendance Management System is developed using C#.NET fully meets the objectives of the system which it has been developed. The system has reached a steady state where all bugs have been eliminated.

The system is operated at a high level of efficiency and all the teachers and user associated with the system understands its advantage. The system solves the problem. It was intended to solve as requirement specification.

BIBLIOGRAPHY

The Bibliography contains references to all the documents that were used to develop the application.

- www.stackoverflow.com
- www.c#corner.com
- www.tutorialspoint.com