

# **Attendance Management System**

## **Introduction:-**

Attendance Management System is a software developed for daily student attendance in schools, collages 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.

## **Technology Used:-**

Language:-VB.NET

Backend:-MS-Access

## **System Requirement:-**

Minimum RAM:-256 MB

Hard Disk:-40 GB

Processor:-Intel Pentium 4

Operating System:-Windows XP Service Pack2

## **Overview:-**

Attendance Management System basically has two main modules for proper functioning

- First module is admin which has right for creating space for new batch. Any entry of new faculty, Updation in subject if necessary, and sending notice.
- Second module is handled by the user which can be a faculty or an operator. User has a right of making daily attendance, generating report.

Attendance can be taken in two ways:

- On the basis of Subject and month.

- On the basis of Class.

# FEASIBILITY STUDY

### **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. At the end of session the students who don't have 75% attendance get a notice.

## 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.

## **CHARACTERISTIC 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 fed 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 Tables

## Attendance Management System

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### Admin Table:

S.No.	Field name	Data Type	Description
1.	User name	Text	Store user name for checking correct username
2.	Password	Text	Store password corresponding to username
3.	User Type	Text	User Type Administrator or User

### Teacher Table:

S.No.	Field name	Data Type	Description
1.	Teacher Id	Number	Unique key for Every Teacher
2.	Teacher Name	Text	Name of Teacher

### Attendance Table:

S.No.	Field name	Data Type	Description
1.	Student Name	Text	Name of Student
2.	Status	Number	Total number classes attended by particular Student
3.	Semester	Text	In which Semester Student is Studying
4.	Subject	Text	The Subject Wise Attendance Is maintained
5.	Month	Text	The Month Wise Attendance is maintained where total working days in month=20



## Attendance Management System

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### Subject Table:

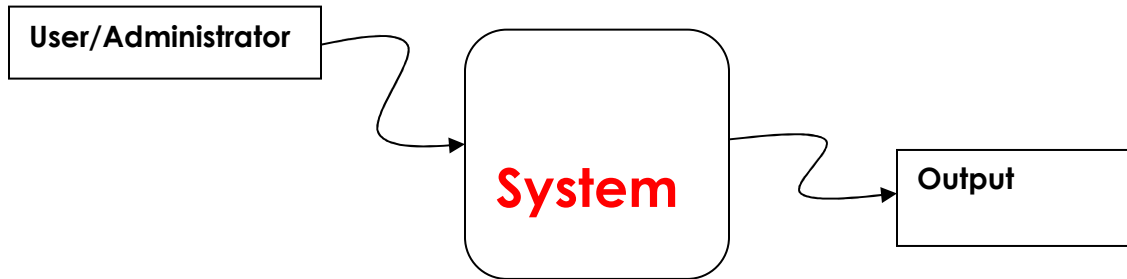
S.No.	Field name	Data Type	Description
1.	Code	Number	Subject code a unique key
2.	Subject Name	Text	Name of Subjects in all semester
3.	Semester	Text	In which Semester student is studying

### Student Table:

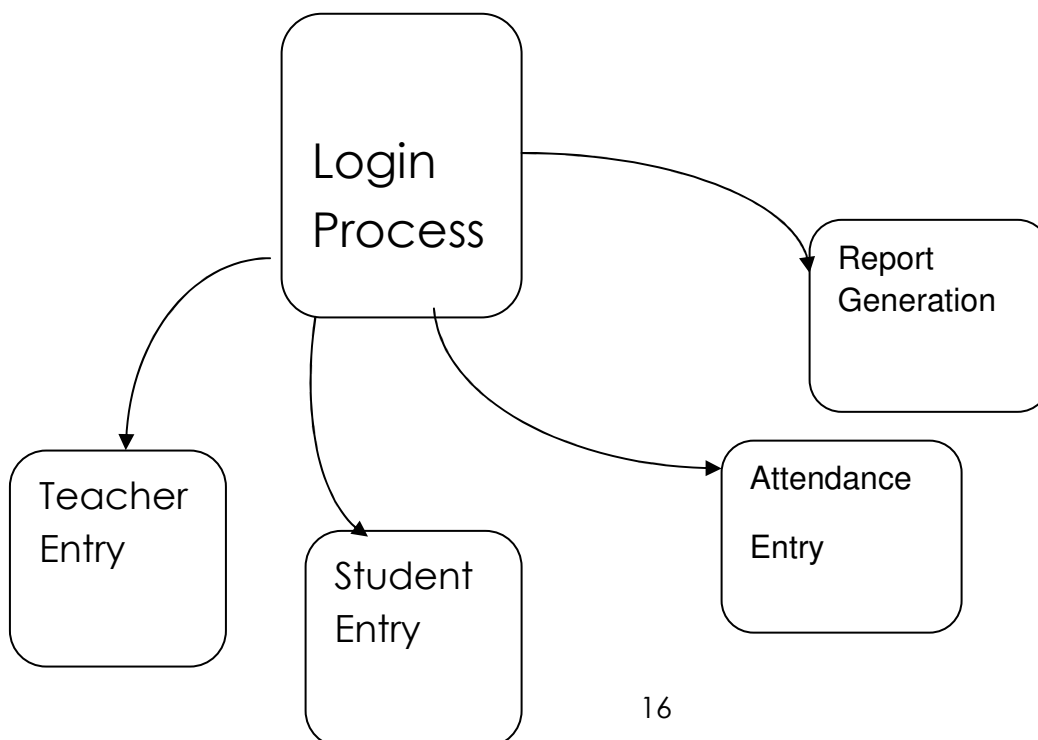
S.No.	Field name	Data Type	Description
1.	Student ID	Number	This is the roll no of the student
2.	Student Name	Text	This is the name of student
3.	Course	Text	This is the course in which the students are studying .By default course is MCA
4.	Semester	Text	This is the semester in which Students are Studying. By default Semester is IV sem

# Data Flow Diagram (DFD)

## 0-level DFD:

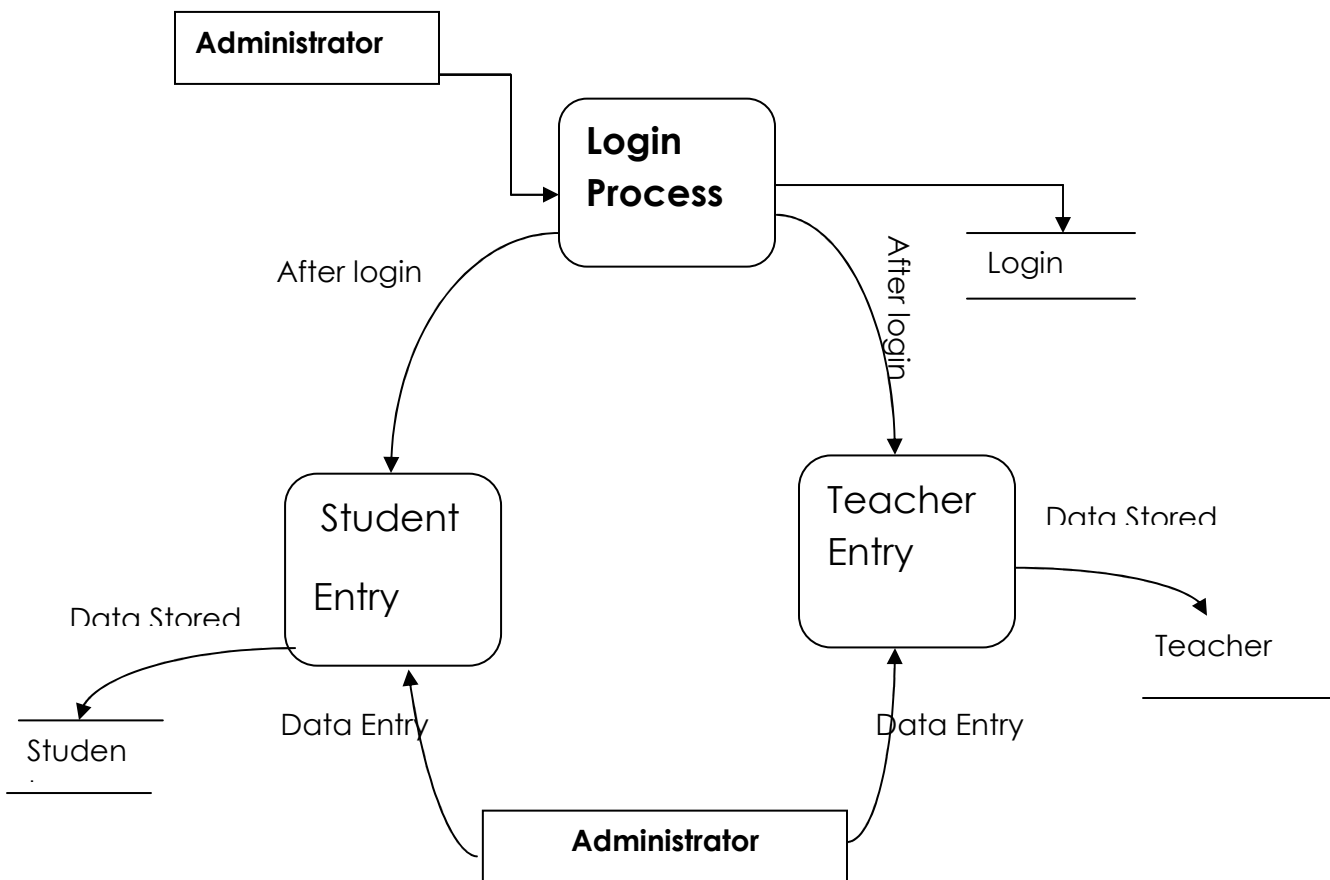


## 1-level DFD:

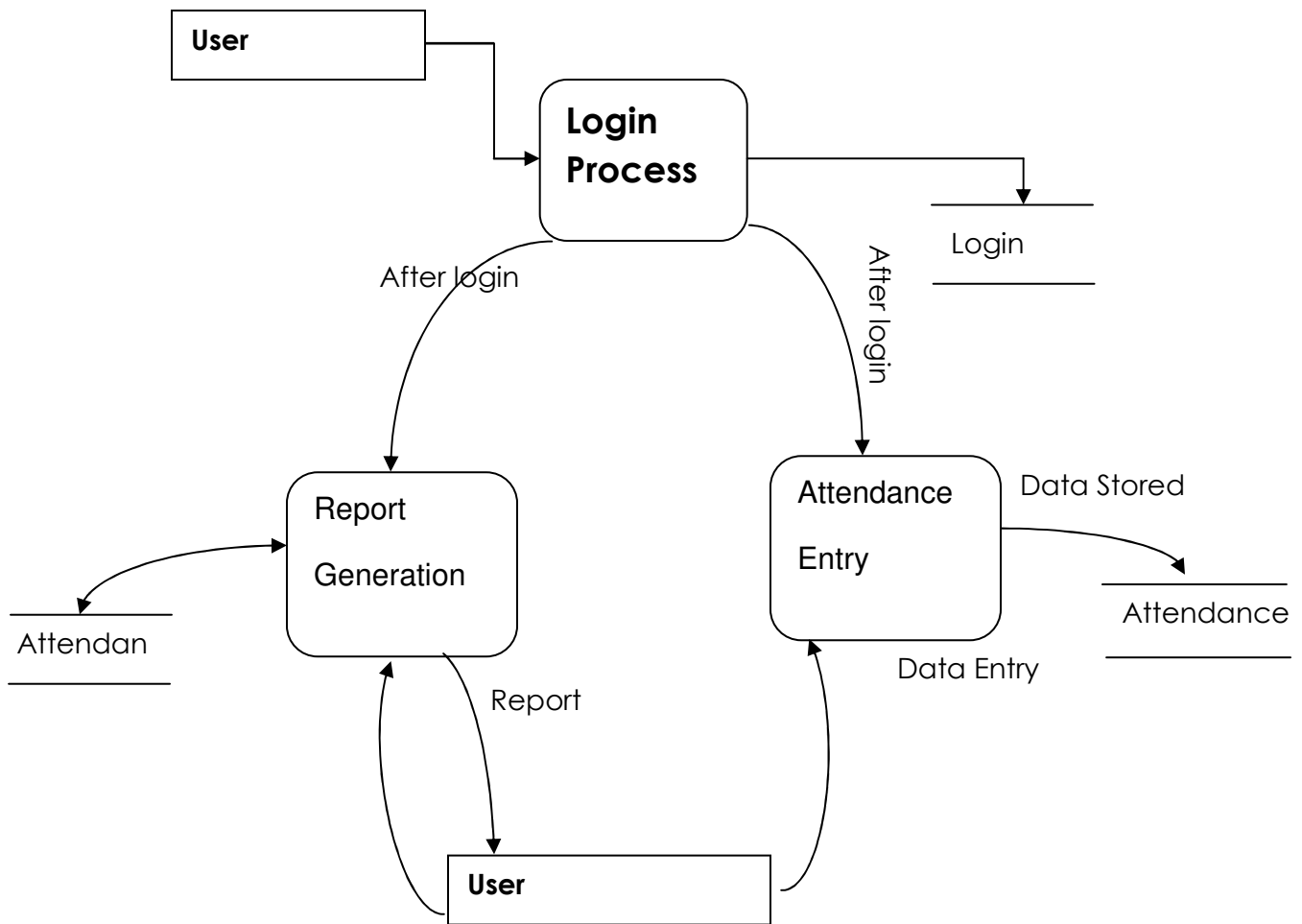


## 2-level DFD:

### 2.1:



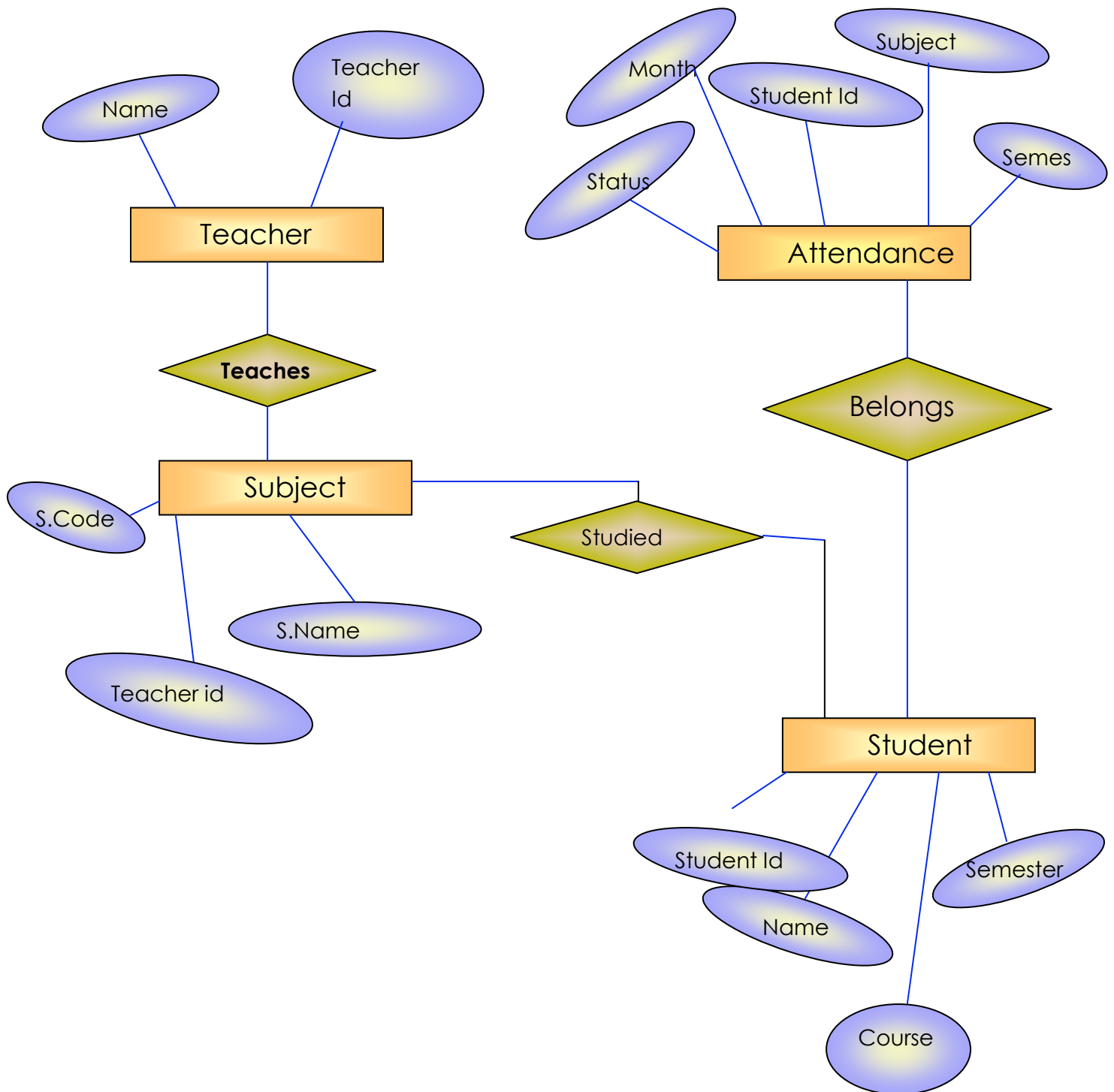
## 2.2



# ER Diagram

# Attendance Management System

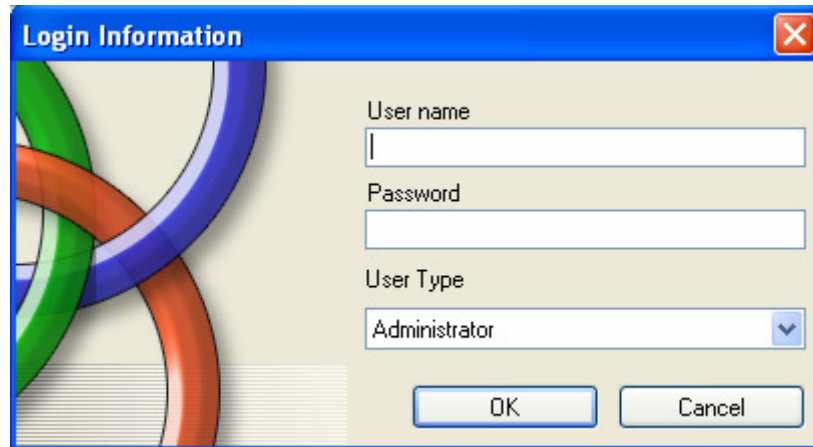
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# Screen Shots



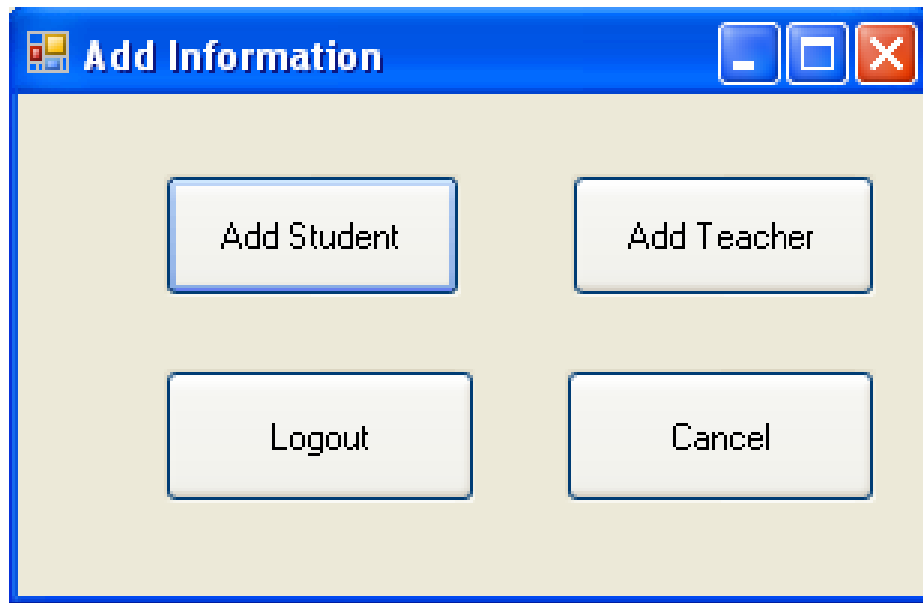
## 1. Login Form

A screenshot of a Windows-style dialog box titled "Login Information". The dialog box has a blue title bar with a close button (X) in the top right corner. The main area has a light beige background. On the left side, there is a decorative graphic of three interlocking rings in green, blue, and orange. On the right side, there are three input fields: "User name" with a text box, "Password" with a text box, and "User Type" with a dropdown menu showing "Administrator". At the bottom right, there are two buttons: "OK" and "Cancel".

This login Form is made For Security purpose. So only Authenticated User only Access in to the Project. There are two Type of persons can enter in the project

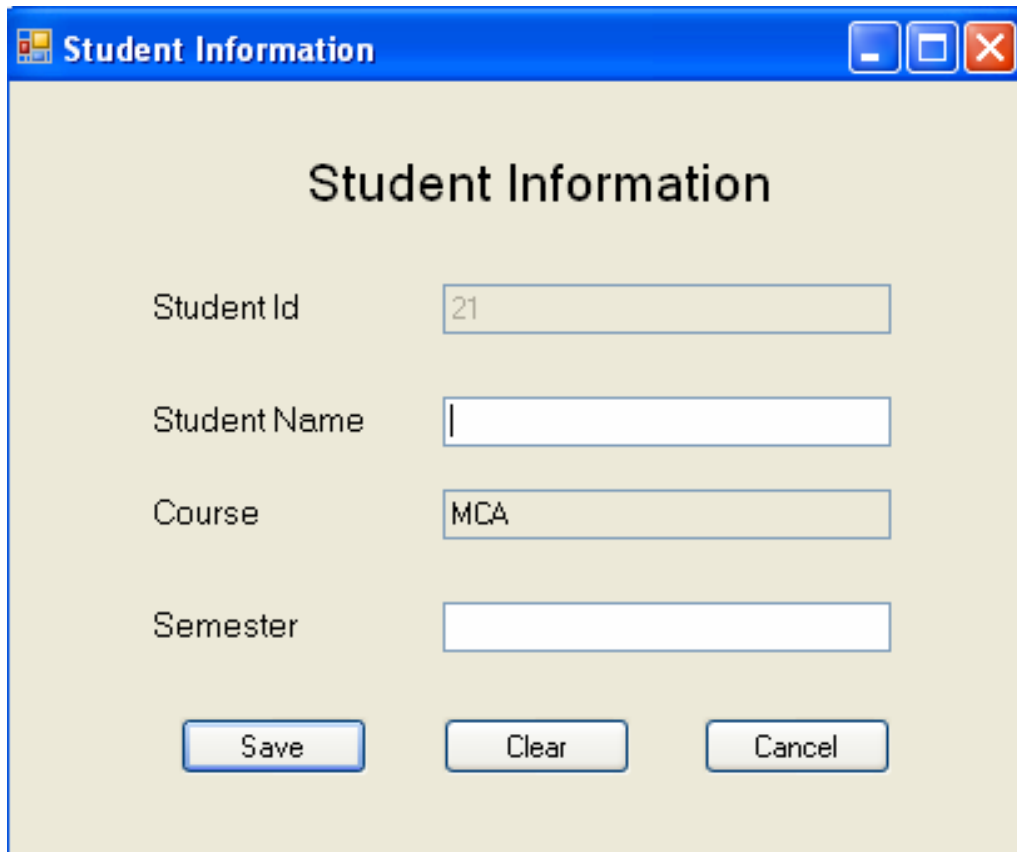
1. Administrator
2. User

### 2. Add Information Form



This form is showed when authorized administrator enters his correct User Name and Password. This Form gives the option to fill the name of Students and the name of Teacher if a new faculty has joined.

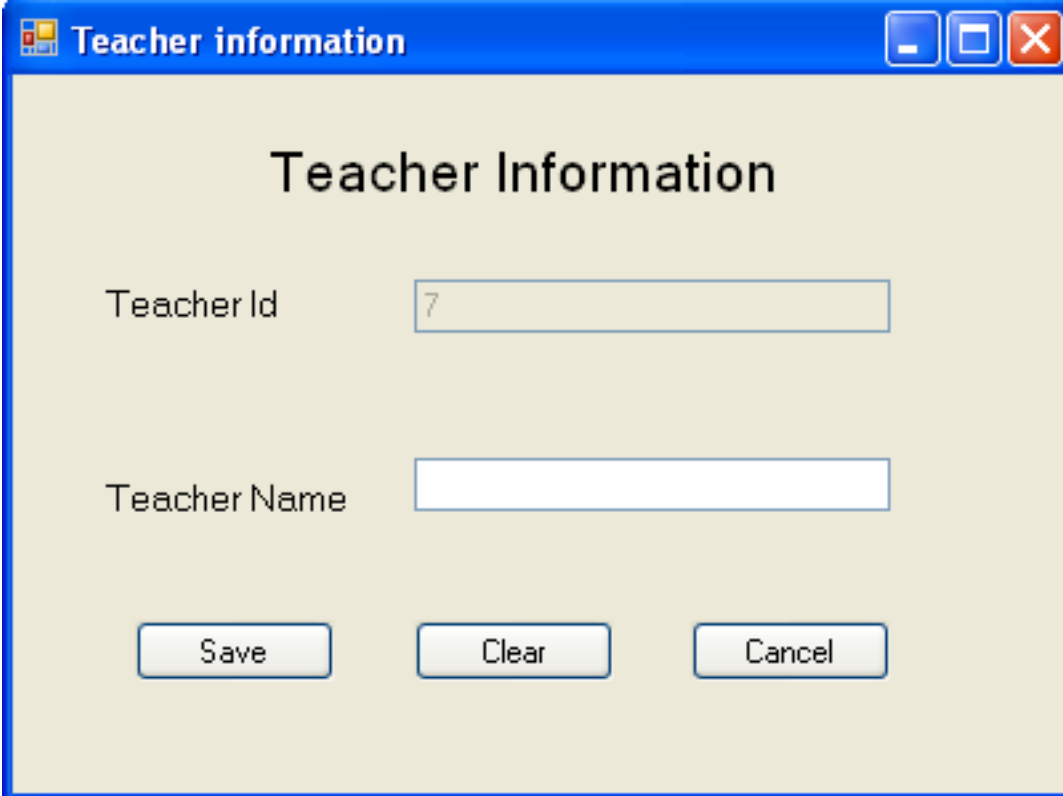
### 3. Student Information Form



The screenshot shows a Windows-style dialog box titled "Student Information". It contains four text input fields: "Student Id" with the value "21", "Student Name" which is empty, "Course" with the value "MCA", and "Semester" which is empty. At the bottom, there are three buttons: "Save", "Clear", and "Cancel".

This form enables the Administrator to fill the name of Students and there Semester where the Student Id will change automatically when a Student is saved in the Database. And course Will Be remain same because this System is made for MCA Students.

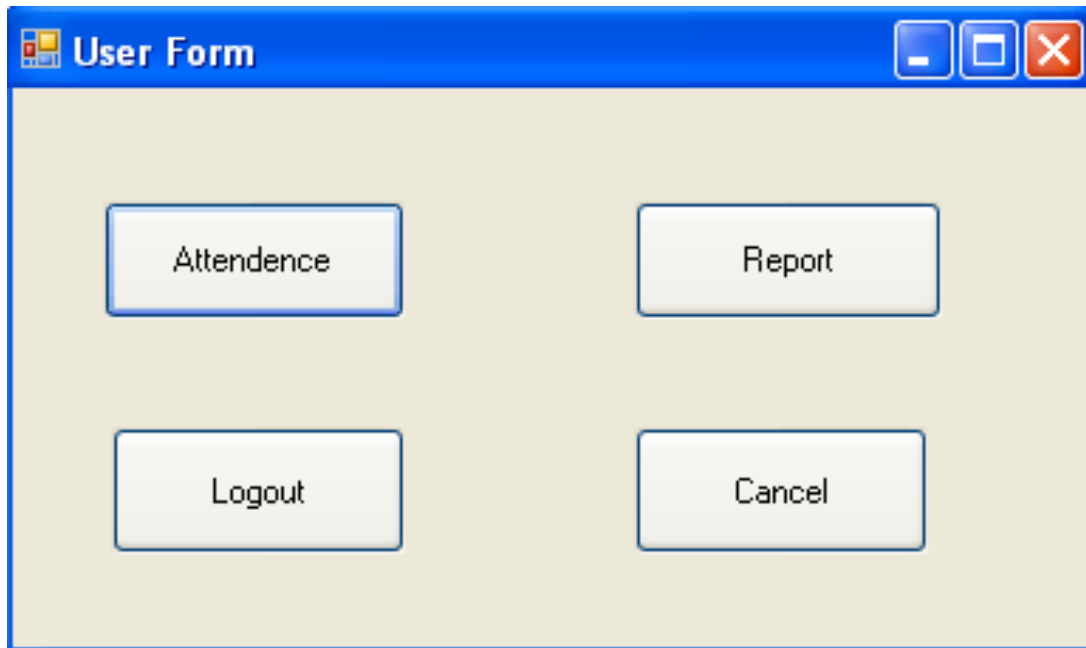
### 4. Teacher Information Form



The screenshot shows a Windows-style dialog box titled "Teacher information". The dialog has a blue title bar with standard minimize, maximize, and close buttons. The main area has a light beige background. At the top, the text "Teacher Information" is centered. Below this, there are two input fields. The first is labeled "Teacher Id" and contains the number "7". The second is labeled "Teacher Name" and is currently empty. At the bottom of the dialog, there are three buttons: "Save", "Clear", and "Cancel", arranged horizontally.

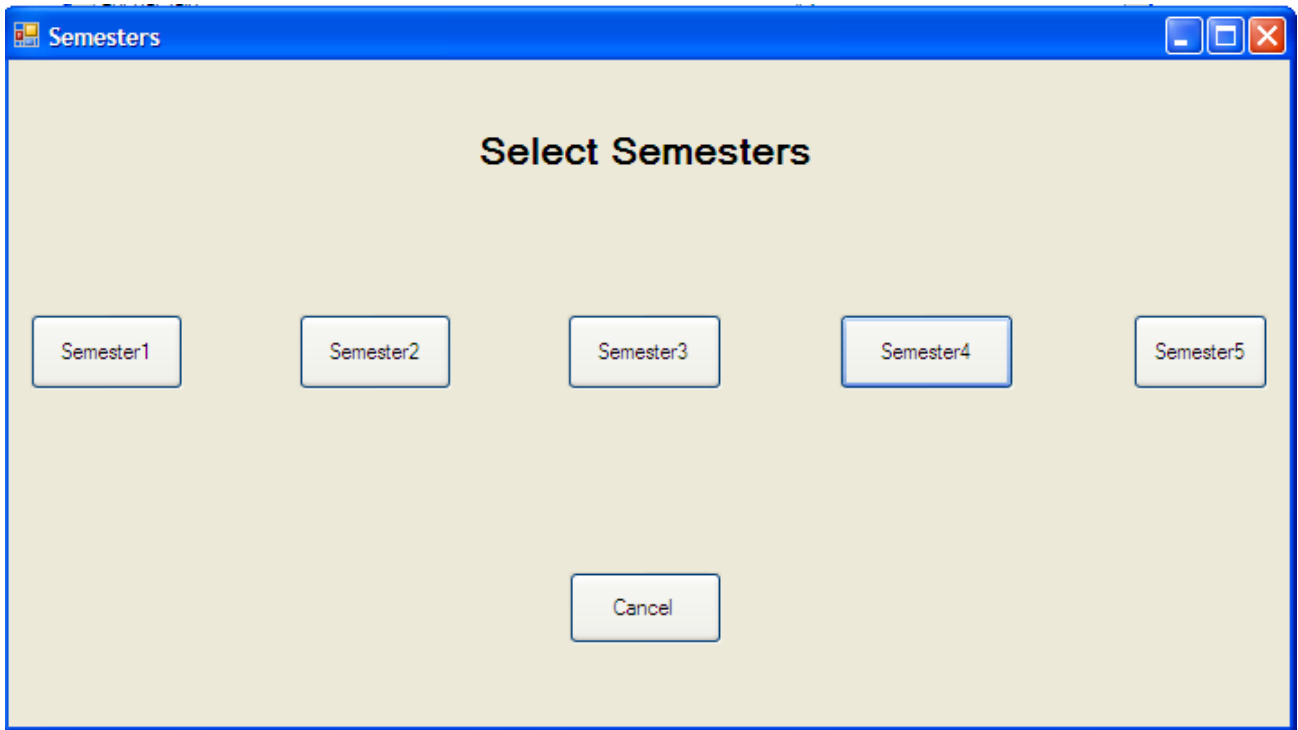
This Form is made for Administrator to fill up the name of teachers when teacher Id is changed automatically. If a new teacher joined the collage its name also is included in the System

### 5. User Form



This form is opened when user fill up his correct User Name and Password and User Type Is user. This form enables the user to fill up attendance of every student and see whish student is short listed and what is the total attendance of each individual attendance in a particular Subject and in a particular month

### 6. Semester Form



The screenshot shows a Windows-style dialog box titled "Semesters". Inside the dialog, the text "Select Semesters" is centered. Below this text, there are five buttons arranged horizontally: "Semester1", "Semester2", "Semester3", "Semester4", and "Semester5". The "Semester4" button is highlighted with a blue border. Below these buttons, there is a "Cancel" button centered. The dialog box has a blue title bar with standard Windows window controls (minimize, maximize, close) on the right.

This form facilitates the user to choose a semester in which attendance is to be filled. In this system we are using the Fourth Semester so when the user clicks on Semester4 the list of Semester 4 students is come.

## 7. Attendance Form

The screenshot shows the 'Attendance' form with the following details:

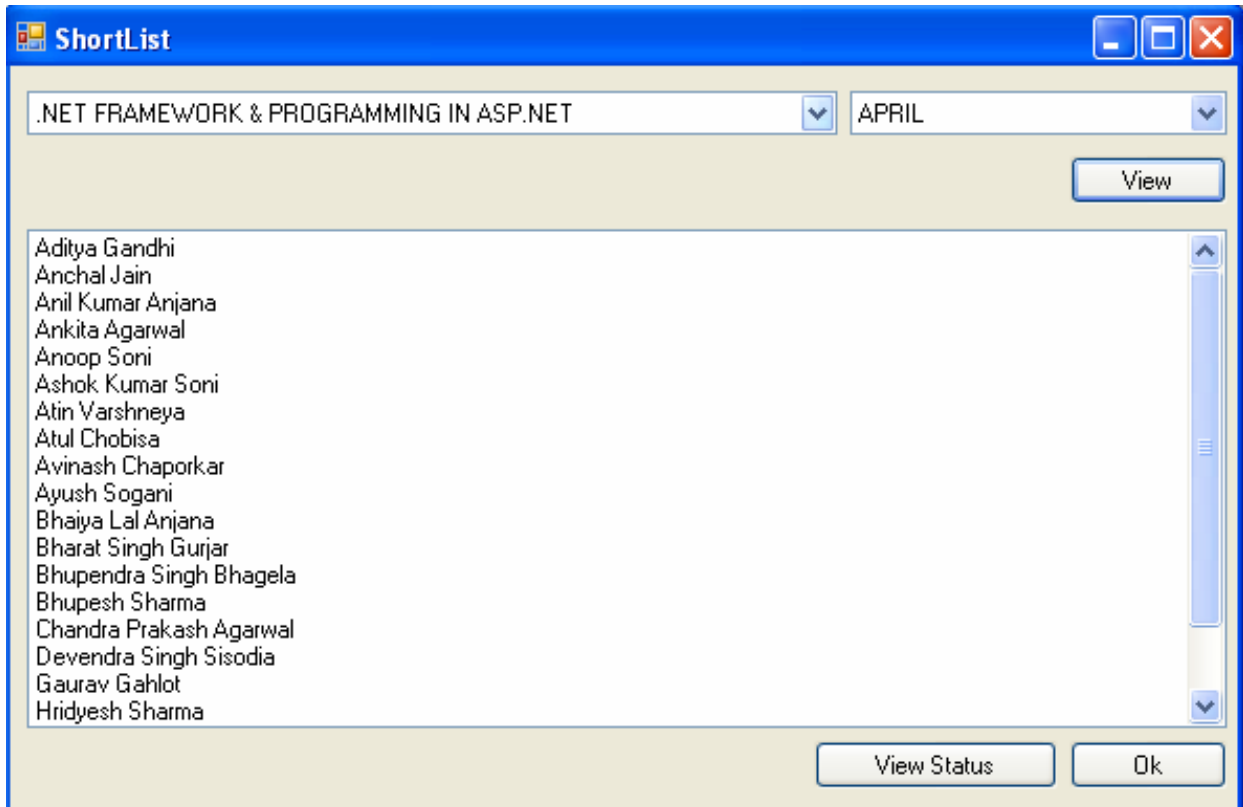
- Subject:** .NET FRAMEWORK & PROGRAMMING IN ASP.NET
- Month:** MAY
- Students and Attendance Status:**

Student Name	Attendance Status
Aditya Gandhi	Not Present
Anchal Jain	Present
Anil Kumar Anjana	Not Present
Ankita Agarwal	Present
Anoop Soni	Not Present
Ashok Kumar Soni	Not Present
Atin Varshneya	Present
Atul Chobisa	Not Present
Avinash Chaporkar	Present
Ayush Sogani	Present
Bhaiya Lal Anjana	Not Present
Bharat Singh Gurjar	Present
Bhupendra Singh Bhagela	Not Present
Bhupesh Sharma	Not Present
Chandra Prakash Agarwal	Present
Devendra Singh Sisodia	Present
Gaurav Gahlot	Present
Hridyesh Sharma	Not Present
Jatin Kinra	Not Present
Kirti Saxena	Present
- AMS Dialog:** Attendance Added (OK)
- Buttons:** Save, Clear, Cancel

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.

## 8. Report Form

### 8.1. Short List Form

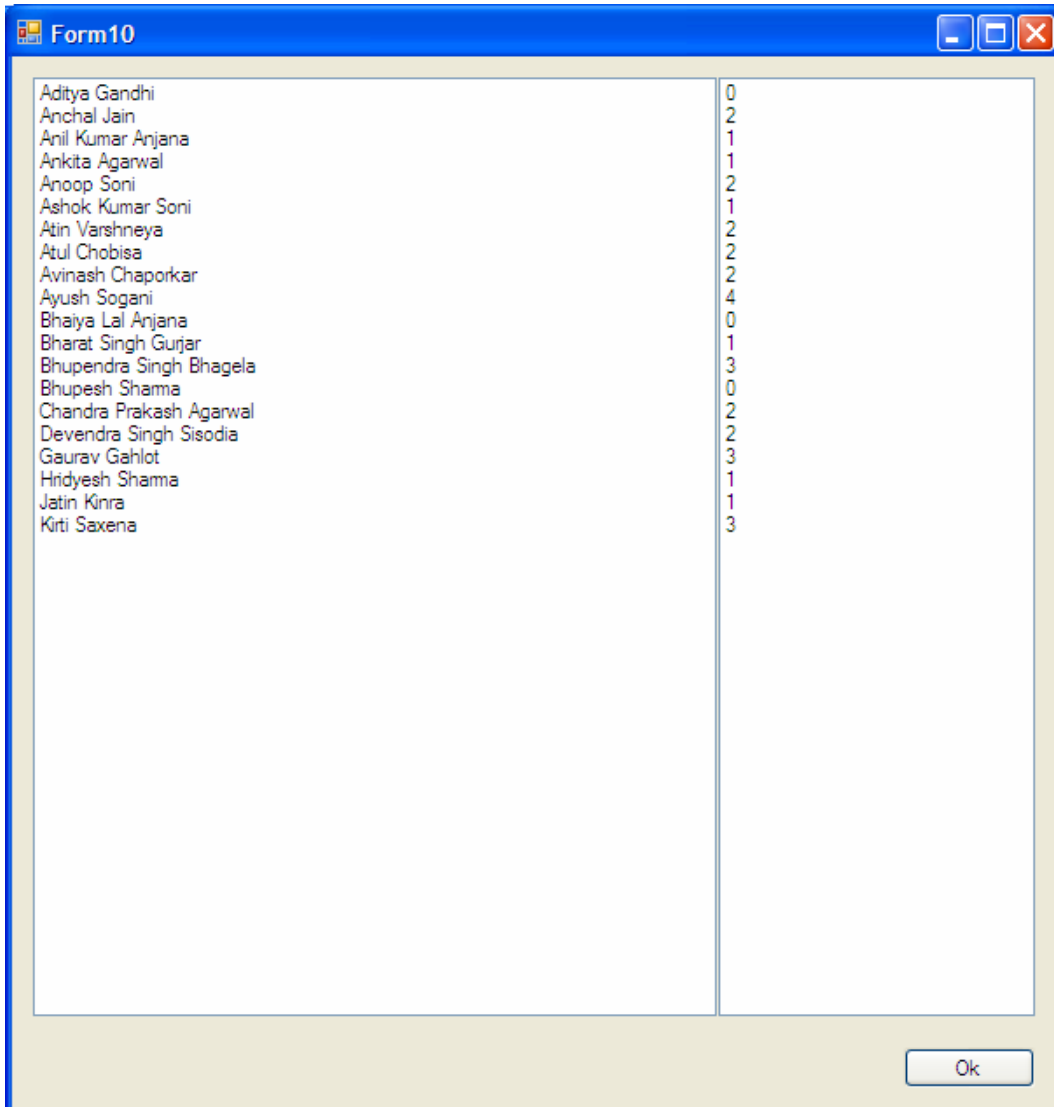


The screenshot shows a Windows-style application window titled "ShortList". At the top, there are two dropdown menus: the first is set to ".NET FRAMEWORK & PROGRAMMING IN ASP.NET" and the second is set to "APRIL". To the right of these menus is a "View" button. Below the menus is a list box containing the following names: Aditya Gandhi, Anchal Jain, Anil Kumar Anjana, Ankita Agarwal, Anoop Soni, Ashok Kumar Soni, Atin Varshneya, Atul Chobisa, Avinash Chaporkar, Ayush Sogani, Bhaiya Lal Anjana, Bharat Singh Gurjar, Bhupendra Singh Bhagela, Bhupesh Sharma, Chandra Prakash Agarwal, Devendra Singh Sisodia, Gaurav Gahlot, and Hridyesh Sharma. At the bottom of the window, there are two buttons: "View Status" and "Ok".

This form shows the list of Short listed students. We can see this list according to Subject wise and month wise. When user click on view, then list is shown accordingly.



## 8.2. Attendance Status Form



The screenshot shows a window titled 'Form10' with a list of student names on the left and their corresponding attendance counts on the right. The window has a blue title bar with standard Windows controls (minimize, maximize, close). The list of names and counts is as follows:

Student Name	Attendance Count
Aditya Gandhi	0
Anchal Jain	2
Anil Kumar Anjana	1
Ankita Agarwal	1
Anoop Soni	2
Ashok Kumar Soni	1
Atin Varshneya	2
Atul Chobisa	2
Avinash Chaporkar	2
Ayush Sogani	4
Bhaiya Lal Anjana	0
Bharat Singh Gurjar	1
Bhupendra Singh Bhagela	3
Bhupesh Shama	0
Chandra Prakash Agarwal	2
Devendra Singh Sisodia	2
Gaurav Gahlot	3
Hridyesh Shama	1
Jatin Kinra	1
Kirti Saxena	3

An 'Ok' button is located at the bottom right of the window.

This form shows the status of the students or we can say number of classes attended in a particular subject in a particular month. When user click on the 'View Status' button of short list form then this form will appear with the status.

## **Conclusion**

The Attendance Management System is developed using Visual Basic.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.