

# FCSMS



# Introduction...

## Statement of The Proposed System

The main purpose using computerized system for the school Fauji Convent School, is to avoid manual problems and also documentation storage problem we can't maintain long period data that's why we used computerized system to overcome all problem related to school's data storing and other areas.

# Purpose..

- What was the need for the development of such a project which is already running on the internet in some or the other fashion??
- What was the thought that lead to the development of the project??

# Purpose..

- **Dedicated to Digital India**

# Problems With The Existing System....

- The main problem is that even today many of our schools have not been able to use these digital facilities even in the time of digital India. We went to a school of a relative in this project and took the details of the entire work there, and then we got the project Started.
- Keeping the data in school properly and keeping it safe for a long time, this project is being carried forward to make many school related tasks accurately.



# Problems With The Existing System....

- The main purpose of this project is that we can provide better facilities to this school so that all the work in school is done properly and quickly. Our move is to provide basic facilities to the school while participating in Digital India.

# Objective And Description

- FCSMS (FAUJI CONVENT SCHOOL MANAGEMENT SYSTEM) is an application based project that maintains many of the activities related to a school.
- To store student details and teacher details.
- To store students and teachers attendance.
- To manage students fees and teachers salary
- To store exams & results details.
- This application reduces the time & cost and provides the facility to retrieve student all information according to requirement.

# Project Uses...

❖ C# as a FRONT END

(which is the interface between the user and the data access layer)

❖ SQL Server 2008 R2 as a BACK END

(which is the data access layer i.e. the database)



# Technology Used...

- C# is designed to be a simple, modern, general-purpose, object-oriented programming language, borrowing key concepts from several other languages, most notably Java.
- C# could theoretically be compiled to machine code, but in real life, it's always used in combination with the .NET framework. Therefore, applications written in C#, requires the .NET framework to be installed on the computer running the application. While the .NET framework makes it possible to use a wide range of languages, C# is sometimes referred to as THE .NET language, perhaps because it was designed together with the framework.

# Technology Used(Contd)...

## SQL Server 2008 R2

- **Microsoft SQL Server** is a relational database management system developed by Microsoft. As a database server, it is a software product with the primary function of storing and retrieving data as requested by other software applications—which may run either on the same computer or on another computer across a network (including the Internet).
- Microsoft markets at least a dozen different editions of Microsoft SQL Server, aimed at different audiences and for workloads ranging from small single-machine applications to large Internet-facing applications with many concurrent users.

# Software Specification...

Software	Specification
Operating System	Windows 7
Tools	Microsoft Visual Studio 2010
Technology	C#
C#	Programming Language
Documentation Tools	MS WORD 2007

# Functional Requirements

- Hardware requirements
  - Processor
  - Ram
  - Hard disk
- Software requirements
  - Operating system(Windows )
  - Database Server SQL Server 2008 R2
  - Language(C#)

# Functional Requirements

- School management system shall be Application.
- Admin shall login and register new teachers to use system.
- Admin shall add new student, teacher, and class and modify them. Admin shall update school data.
- Admin shall access all the data about student related.
- Admin shall manage the school activity.



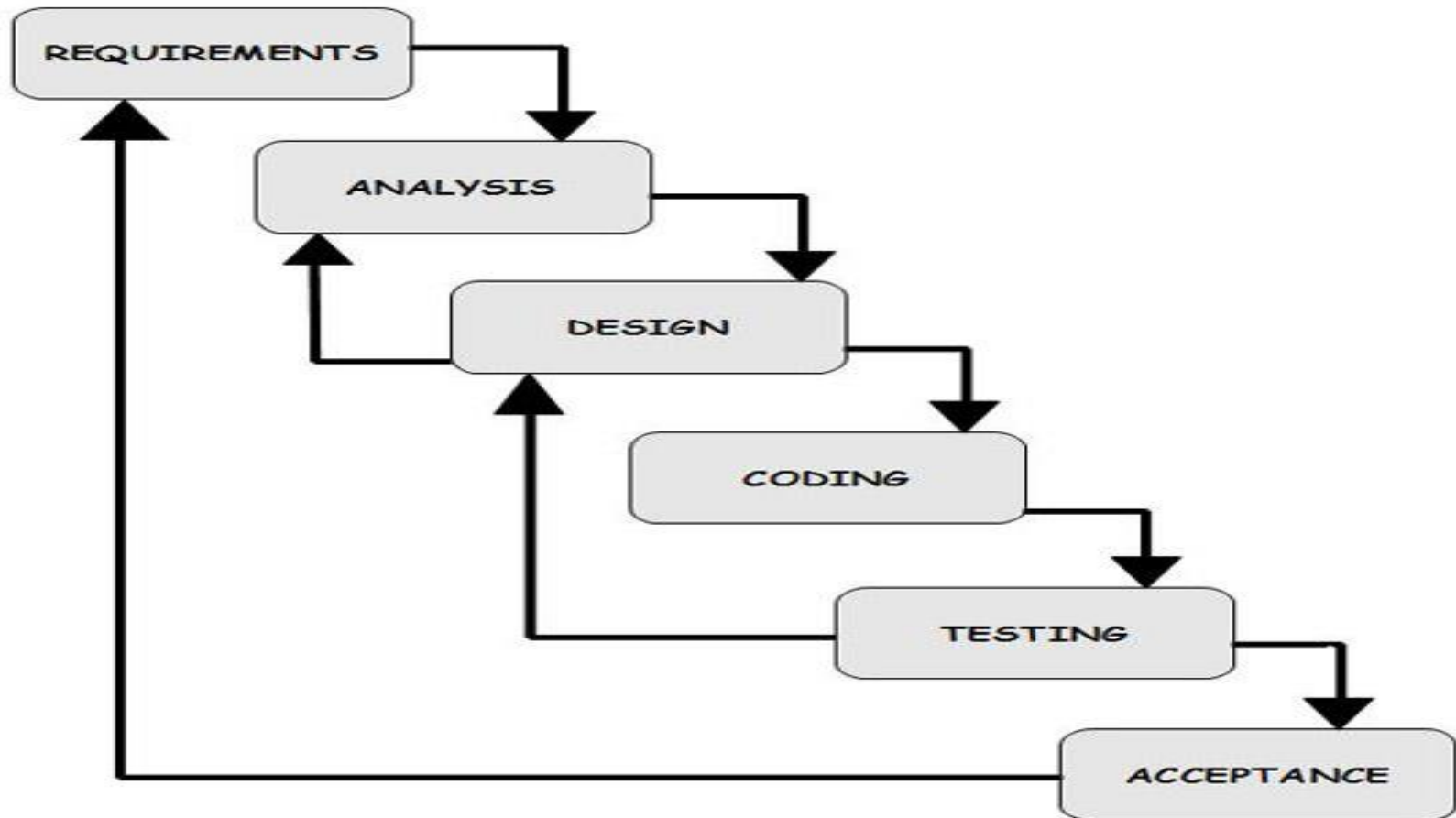
# Non-Functional Requirements

- The system should be easy to use..
- The system should response at the time
- System should provide specific information to specific user.
- The system should not fail.
- Right information is available to right student and teacher at right time.

# Modules Used

- Login Module
- Admin Home Module
- Teacher Home Module
- Student Admission Module
- Student View Module
- Teacher Joining Module
- Teacher View Module
- Student Attendance Module
- Student Attendance View Module
- Teacher Attendance Module
- Teacher Attendance View Module
- Students Fees Module
- Teacher Salary Module
- Forgot Password Module
- Teacher Registration Module
- Change Password Module

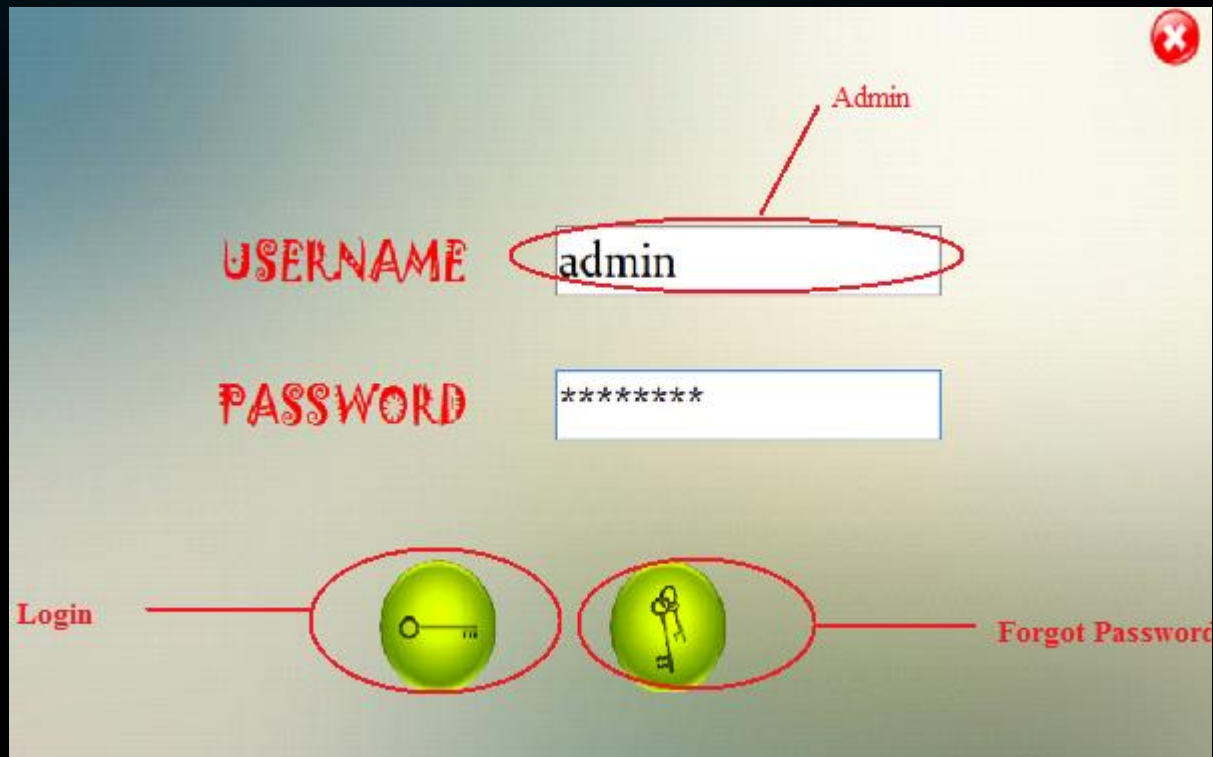
# LINEAR SEQUENTIAL MODEL (ITERATIVE WATER FALL MODEL)



# Gantt Chart

TASKS	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL
Requirement Specification and Analysis					
Design					
Coding with Unit Testing					
Testing					
Documentation					

# Working...



A screenshot of a login form with a light beige background. In the top right corner, there is a red circular button with a white 'X' icon. The form contains two input fields: one for 'USERNAME' containing the text 'admin' and one for 'PASSWORD' containing eight asterisks '\*\*\*\*\*'. Red annotations are present: a line points from the word 'Admin' to the 'admin' text in the username field; the username field is circled in red; the password field is also circled in red; and both the 'Login' and 'Forgot Password' buttons, which feature a green sphere with a key icon, are circled in red. The 'Login' button is on the left and the 'Forgot Password' button is on the right.

Admin

USERNAME admin

PASSWORD \*\*\*\*\*

Login

Forgot Password



# Working (Contd.....)



# Working (Contd.....)

The screenshot shows a web-based 'ADMISSION' form with a toolbar at the top containing icons for user management, currency, calendar, and security. The form is divided into two main sections: student information on the left and admission details on the right. Annotations in red text with lines pointing to specific fields highlight validation rules and system behaviors.

**ADMISSION**

**Left Section (Student Information):**

- STUDENT ID: 2000 (Annotation: Only Int value)
- STUDENT NAME: P/zad (Annotation: Alphabet only)
- FATHERS NAME: Jawad
- MOTHERS NAME: Husnie
- GENDER: ☒ MALE ☐ FEMALE
- ADDRESS: Lucknow

**Right Section (Admission Details):**

- DATE OF BIRTH: 09 June 2005
- DATE OF ADMISSION: 08 May 2017 (Annotation: System date locked)
- CLASS: 10 (Annotation: Class)
- AGE: 11 (Annotation: Automated age calculation & locked)
- PHONE NUMBER: 9996887776

**Action Buttons:**

- SUBMIT (Annotation: Submit)
- RESET (Annotation: Reset)

## Working (Contd.....)

**STUDENT DATA**

enter id      STUDENT ID:       **SEARCH**      check by id data valid or not

STUDENT ID:	<input type="text" value="150"/>	DATE OF BIRTH:	<input type="text" value="01 January 1997"/>
STUDENT NAME:	<input type="text" value="sbode"/>	DATE OF ADMISSION:	<input type="text" value="12 December 2004"/>
FATHERS NAME:	<input type="text" value="zzzz"/>	CLASS:	<input type="text" value="V"/>
MOTHERS NAME:	<input type="text" value="pqrst"/>	AGE:	<input type="text" value="19"/>
GENDER:	<input type="text" value="M"/>	PHONE NUMBER:	<input type="text" value="9997766454"/>
ADDRESS:	<input type="text" value="delhi"/>		

Edit info      **EDIT**      **DELETE**      Delete info



# Working (Contd.....)

The screenshot shows a web application for managing student attendance. The interface includes a header with various icons, a table of students, and a form for recording attendance. Red circles and lines highlight specific features and their functions.

SNo.	Student ID	Student Name
1.	150	ABCDE
2.	500	AIZAD
3.	786	AQUIB

**STUDENT ATTENDENCE**

Annotations and their corresponding UI elements:

- According to combo box present all student:** Points to the 'Present' dropdown menu in the first row of the student table.
- Class selection:** Points to the 'CLASS' dropdown menu.
- System date locked:** Points to the date field showing '06 May 2017'.
- Check total student present or absent:** Points to the 'CHECK' button.
- save attendance:** Points to the 'SAVE' button.

**Summary Statistics:**

- TOTAL - 3
- PRESENT - 2
- ABSENT - 1

# Working (Contd.....)

CLASS: V

May 2017

FIND

SNo.	NAME	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	ABDUL	A		A			A																									
2	AIZAD	A		A			A																									
3	AQUIE						A																									

Class selection

Monthly Attendance

Find monthly attendance According to class



# Working (Contd.....)

The screenshot shows a web form titled "FEES" with a header bar containing various icons. The form includes fields for Student ID, Student Name, Gender, Class, Date, and Amount, along with "CHECK" and "SUBMIT" buttons. Red annotations highlight the "CHECK" button and the "AMOUNT" field, with lines pointing to explanatory text.

**FEES**

STUDENT ID: 786 **CHECK** Check by student id

STUDENT ID: 150 GENDER: M

STUDENT NAME: abode CLASS: V

DATE: 06 May 2017

AMOUNT: 700 according to class fees autometed feed in amount box

**SUBMIT** Submit fees

# Working (Contd.....)

The screenshot shows a web form titled "TEACHER" with a toolbar at the top containing icons for user management, currency, and system functions. The form fields and their annotations are as follows:

- TEACHER ID:** Input field containing "2244". Annotation: "only int value in ID".
- TEACHER NAME:** Input field containing "ivnish". Annotation: "alphabet enter only".
- GENDER:** Radio buttons for "MALE" (selected) and "FEMALE".
- SUBJECT:** Dropdown menu with "English" selected. Annotation: "select subject".
- ADDRESS:** Input field containing "Kanpur".
- DATE OF BIRTH:** Date picker showing "28 February 1991".
- DATE OF JOINING:** Date picker showing "16 May 2017". Annotation: "system date locked".
- AGE:** Input field containing "26". Annotation: "automatic age calculation".
- PHONE:** Input field containing "776655-433".
- Buttons:** A green "SUBMIT" button and a red "RESET" button. Annotations: "Submit data" for the SUBMIT button and "reset info" for the RESET button.

# Working (Contd.....)

The screenshot shows a web application titled "TEACHERS DATA". At the top, there is a navigation bar with icons for user management, search, and system settings. The main form contains the following fields and annotations:

- Search Section:** A label "search by id" points to the "TEACHER ID:" field, which contains the value "2244". A red circle highlights the "2244" value. A "SEARCH" button is also circled in red. A red line connects the "SEARCH" button to the text "Check data valid or not".
- Teacher Details Section:**
  - TEACHER ID:** 2244
  - TEACHER NAME:** Manish (The text "textbox locked" points to this field with a red line.)
  - GENDER:** M
  - SUBJECT ID:** 101
  - ADDRESS:** Kampur
  - DATE OF BIRTH:** 23 February 1991
  - DATE OF JOINING:** 06 May 2017
  - AGE:** 26
  - PHONE:** 7766554433
- Action Buttons:** At the bottom, there are two large red buttons: "EDIT" and "DELETE". A red line connects the "EDIT" button to the text "edit record". A red line connects the "DELETE" button to the text "delete record".



# Working (Contd.....)

The screenshot shows a web-based 'TEACHERS ATTENDANCE FORM'. At the top, there is a navigation bar with various icons representing different user roles and system functions. The form itself contains several input fields and a submit button. Red dashed lines and circles are used to highlight specific elements, with labels pointing to them.

**TEACHERS ATTENDANCE FORM**

Annotations and field details:

- teacher id**: Points to the 'TEACHER ID' dropdown menu, which currently displays '2244'.
- absent/present**: Points to the 'ATTENDANCE' dropdown menu, which currently displays 'Absent'.
- system date locked**: Points to the 'TODAY'S DATE' field, which displays '06 May 2017' and is marked as locked.
- submit date**: Points to the 'SUBMIT' button.

The form fields are as follows:

Field Label	Current Value / Option
TEACHER ID	2244
TEACHER NAME	Manish
ATTENDANCE	Absent
TODAY'S DATE	06 May 2017

**SUBMIT**

# Working (Contd.....)

May 2017

FIND

SNo.	NAME	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	ANUP			A																												
2	AZI																															
3	RAHUL	P		P																												
4	MANISH						A																									
5	ABHI					P																										

attendance record

monthly attendance

find teacher attendance



# Working (Contd.....)

The screenshot shows a web registration form titled "REGISTER". At the top, there is a navigation bar with icons for user management, registration, and system status. The form fields and their annotations are as follows:

- TEACHER ID**: A dropdown menu with the value "2244".
- TEACHER NAME**: A dropdown menu with the value "Menish".
- Username**: A text input field containing "manish007". A red line labeled "username" points to this field.
- password**: A text input field containing masked characters. A red line labeled "password" points to this field.
- Confirm Password**: A text input field containing masked characters.
- Security Question**: A dropdown menu with the value "What is your Favorite Movie?". A red line labeled "security question" points to this field.
- Answer**: A text input field containing "Pink". A red line labeled "security answer" points to this field.
- submit**: A button labeled "Submit" with a red line labeled "submit" pointing to it.
- reset info**: A button labeled "Reset" with a red line labeled "reset info" pointing to it.
- check username**: A button labeled "CHECK" with a red line labeled "check username" pointing to it.

The form also includes a "CHECK" button next to the Username field and a "Reset" button at the bottom right.

# Working (Contd.....)

The screenshot shows a web interface for exam registration. At the top, there is a navigation bar with various icons representing different user roles and system functions. Below this, the main heading is "EXAM". The form contains several fields, each with a red circle around it and a red line pointing to a label:

- CLASS:** A dropdown menu showing "VII". A red line points to it with the label "class selection".
- DATE OF EXAM:** A date picker showing "09 May 2017". A red line points to it with the label "date of exam".
- TIME OF EXAM:** A time picker showing "10:30 AM". A red line points to it with the label "exam timing".
- EXAM TYPE:** A dropdown menu showing "Half-Yearly". A red line points to it with the label "exam type".
- SUBJECT:** A dropdown menu showing "Maths". A red line points to it with the label "select subject".

At the bottom of the form, there are two large buttons:

- A green button labeled "SUBMIT". A red line points to it with the label "submit".
- A red button labeled "RESET". A red line points to it with the label "reset".

# Working (Contd.....)

The screenshot shows a software interface for exam scheduling. At the top, there is a toolbar with various icons. Below the toolbar, the 'EXAM TYPE' is set to 'Half-Yearly' in a dropdown menu. To the right of this, there is a year selection field showing '2017' and a 'SHOW' button. A table displays the exam schedule for classes I through VIII across six dates: 09-05-2017, 10-05-2017, 20-05-2017, 28-05-2017, and 16-06-2017. The table cells are yellow, and some contain text like 'English' or 'Maths'. Red annotations with arrows point to the 'Half-Yearly' dropdown (labeled 'exam type'), the '2017' field (labeled 'select year'), the 'SHOW' button (labeled 'click to show exam schedule'), and the table (labeled 'exam scheduled data').

EXAM TYPE: Half-Yearly

Year: 2017

SHOW

CLASS	09-05-2017	10-05-2017	20-05-2017	28-05-2017	16-06-2017
I	-	-	-	-	-
II	-	-	-	-	-
III	-	-	English	-	-
IV	-	English	-	-	-
V	-	-	-	Maths	English
VI	-	-	-	-	-
VII	Maths	-	-	-	-
VIII	-	-	-	-	-

Annotations:

- exam type (points to Half-Yearly)
- select year (points to 2017)
- click to show exam schedule (points to SHOW)
- exam scheduled data (points to the table)



# Working (Contd.....)

The screenshot shows a web application for managing student information. The interface includes a top navigation bar with various icons, a left sidebar for form navigation, and a main content area for data entry and search.

**STUDENT INFORMATION**

STUDENT ID: 150  
NAME: abcde  
ADD SUBJECT MARKS  
EXAM TYPE: Half-Yearly  
MATHS: 55  
ENGLISH: 55

Annotations for the left sidebar:

- edit info (pointing to EDIT button)
- submit data (pointing to SUBMIT button)
- enter marks (pointing to the input fields for subject marks)

**Search and Data Entry Section**

STUDENT ID: 786 EXAM TYPE: Half-Yearly SEARCH

Annotation: search by id (pointing to the SEARCH button)

STUDENT ID	NAME	CLASS
MATHS	ENGLISH	

Annotations for the table:

- subject marks (pointing to the input fields for MATHS and ENGLISH)
- student data (pointing to the input fields for STUDENT ID, NAME, and CLASS)

**Summary Section**

TOTAL MARKS: DIVISION: PERCENTAGE:

Annotations for the summary section:

- total marks calculated (pointing to the TOTAL MARKS input field)
- division (pointing to the DIVISION input field)
- percentage (pointing to the PERCENTAGE input field)



## Working (Contd.....)

**STUDENT INFORMATION**

STUDENT ID

NAME

ADD SUBJECT MARKS

EXAM TYPE

MATHS

ENGLISH

EDIT SUBMIT RESET

**STUDENT ID** 786 **EXAM TYPE** Half-Yearly **SEARCH**

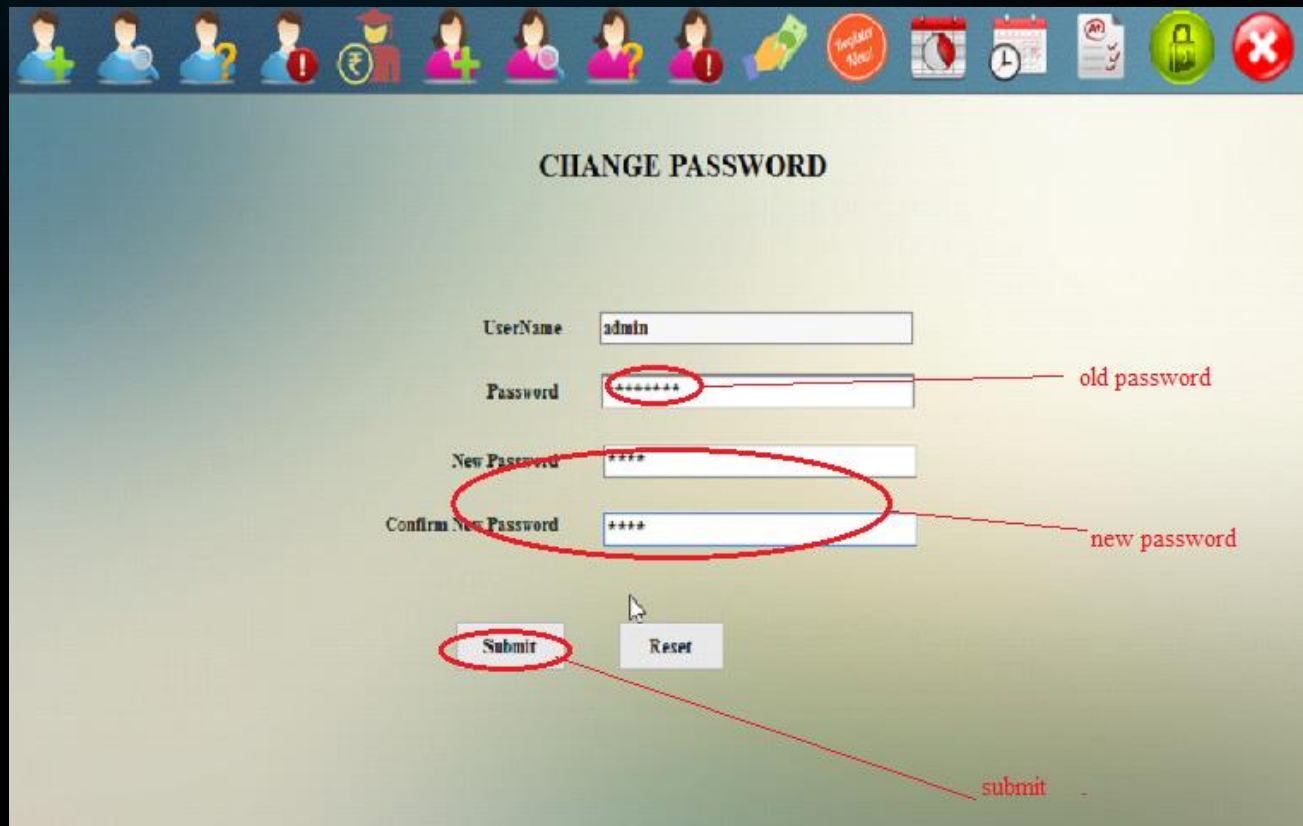
STUDENT ID	NAME	CLASS
150	abede	V
MATHS	55	ENGLISH 56
TOTAL MARKS	111	DIVISION SECOND PERCENTAGE 55.5

locked

student exam data

result data

# Working (Contd.....)



The screenshot displays a web interface for changing a password. At the top, there is a horizontal bar containing various icons such as user profiles, question marks, exclamation marks, a graduation cap, a plus sign, a magnifying glass, a hand holding a coin, a 'Welcome New!' badge, a calendar, a clock, a document, a padlock, and a red 'X' button. Below this bar, the title 'CHANGE PASSWORD' is centered. The form consists of four input fields: 'UserName' (containing 'admin'), 'Password' (containing seven asterisks), 'New Password' (containing four asterisks), and 'Confirm New Password' (containing four asterisks). The 'Password' and 'New Password' fields are circled in red, with red lines pointing to the text 'old password' and 'new password' respectively. At the bottom of the form, there are two buttons: 'Submit' and 'Reset'. The 'Submit' button is also circled in red, with a red line pointing to the text 'submit'.

**CHANGE PASSWORD**

UserName:

Password:  old password

New Password:  new password

Confirm New Password:

submit

## Working (Contd.....)



A screenshot of a login interface with a light beige background. In the top right corner, there is a red circular button with a white 'X' icon. The interface contains two main input sections. The first section is labeled 'USERNAME' in a large, red, stylized font. To its right is a white rectangular text box containing the text 'abhi'. A red oval is drawn around the text 'abhi' in the box, and a red line extends from the right side of the box to the text 'Teacher username'. The second section is labeled 'PASSWORD' in a large, red, stylized font. To its right is a white rectangular text box containing five asterisks '\*\*\*\*\*'. At the bottom of the interface, there are two green circular buttons. The left button contains a black key icon and is circled with a red oval; a red line extends from its left side to the word 'login'. The right button also contains a black key icon and is circled with a red oval; a red line extends from its right side to the text 'Forgot password', with a mouse cursor icon pointing at the button.

USERNAME

abhi

Teacher username

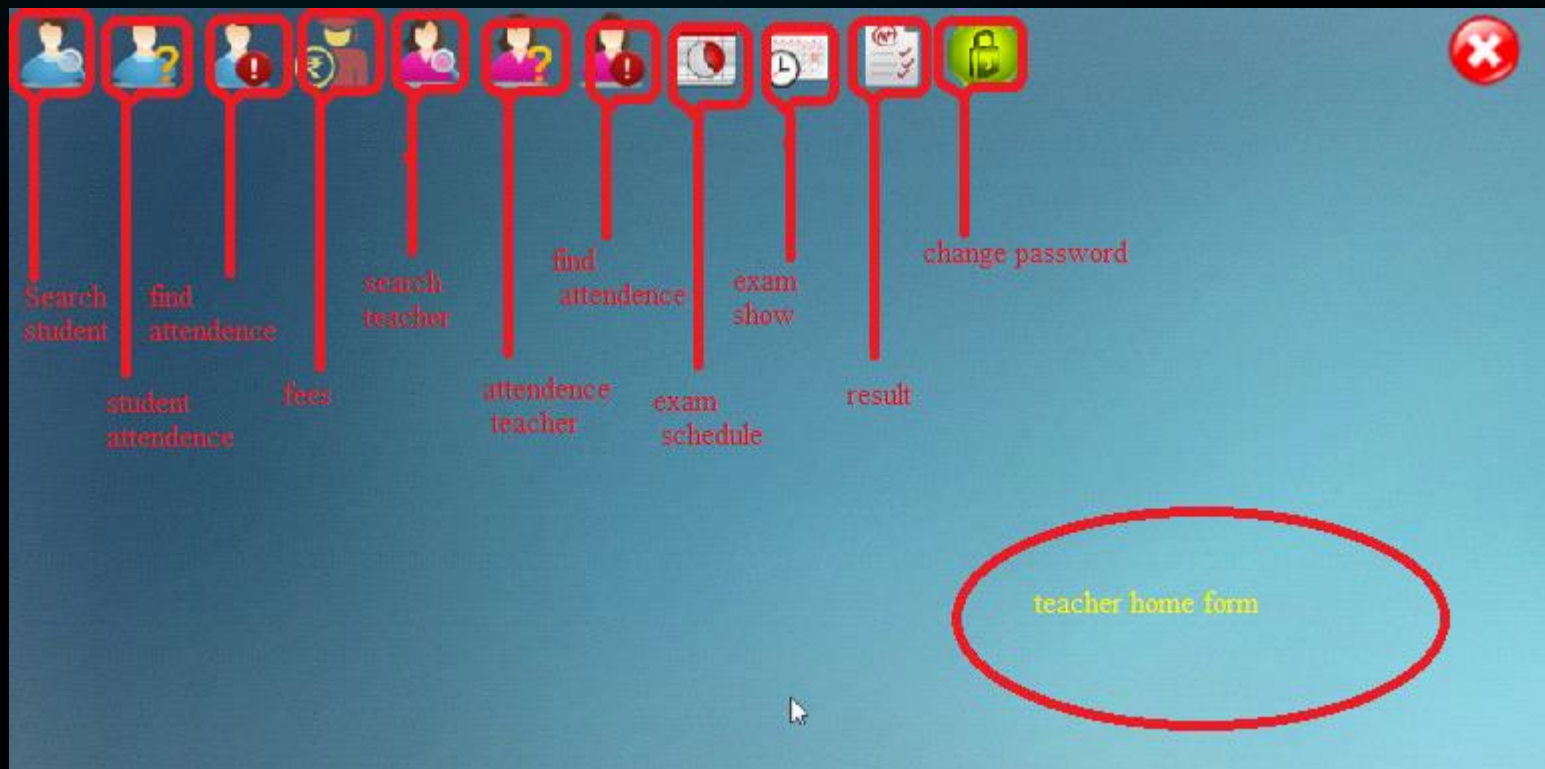
PASSWORD

\*\*\*\*\*

login

Forgot password

# Working (Contd.....)





# Working (Contd.....)

**STUDENT DATA**

STUDENT ID: 766 **SEARCH** search student data by ID

STUDENT ID:	150	DATE OF BIRTH:	01 January 1997
STUDENT NAME:	abode	DATE OF ADMISSION:	12 December 2004
FATHER'S NAME:	zzzz	CLASS:	V
MOTHER'S NAME:	pqst	AGE:	19
GENDER:	M	PHONE NUMBER:	999 7766454
ADDRESS:	delhi		

only view  
not modify

# Working (Contd.....)

**STUDENT ATTENDANCE**

S.No.	Student ID	Student Name	Attendance
1.	1000	LALIT	Present

CLASS: III

TOTAL - 1  
PRESENT - 1  
ABSENT - 0

Teacher access attendance

CHECK SAVE

# Working (Contd.....)

The screenshot shows a web application titled "TEACHERS ATTENDANCE FORM". It features a toolbar at the top with icons for user management, help, notifications, currency, and a calendar. The form contains the following fields:

- TEACHER ID:** A text input field containing "12345". A red oval highlights this field, with a red line pointing to the text "locked".
- TEACHER NAME:** A text input field containing "ahhi".
- ATTENDANCE:** A dropdown menu with "present" selected. A red oval highlights this field, with a red line pointing to the text "present/absent".
- TODAY'S DATE:** A date picker showing "05 May 2017".

At the bottom of the form is a large green circular button labeled "SUBMIT". A red oval highlights this button, with a red line pointing to the text "save attendance".

# Working (Contd.....)

**TEACHERS DATA**

TEACHER ID:

TEACHER ID:	<input type="text" value="2244"/>	DATE OF BIRTH:	<input type="text" value="20 February 1991"/>
TEACHER NAME:	<input type="text" value="Monish"/>	DATE OF JOINING:	<input type="text" value="06 May 2017"/>
GENDER:	<input type="text" value="M"/>	AGE:	<input type="text" value="26"/>
SUBJECT ID:	<input type="text" value="101"/>	PHONE:	<input type="text" value="7756554433"/>
ADDRESS:	<input type="text" value="Kanpur"/>		

teacher only see data ,do not have permission to edit



# Working (Contd.....)

The screenshot shows a web application for managing student information. The interface includes a top navigation bar with icons for user management, reports, and system settings. The main content area is divided into two sections: 'STUDENT INFORMATION' on the left and a search/results area on the right.

**STUDENT INFORMATION Section:**

- STUDENT ID:
- NAME:
- ADD SUBJECT MARKS
- EXAM TYPE:
- MATHS:
- ENGLISH:
- Buttons: EDIT, SUBMIT, RESET

**Search/Results Section:**

- STUDENT ID:  EXAM TYPE:  SEARCH:
- STUDENT ID:  NAME:  CLASS:
- MATHS:  ENGLISH:
- TOTAL MARKS:  DIVISION:  PERCENTAGE:

**Annotations:**

- A red box around the 'STUDENT ID' and 'NAME' fields in the 'STUDENT INFORMATION' section contains the text: "teacher do not have permission to access it".
- A red box around the search results area contains the text: "teacher only see result by ID".

# Working (Contd.....)

UserName

Security Question

Answer

New Password

Confirm New Password

FIND

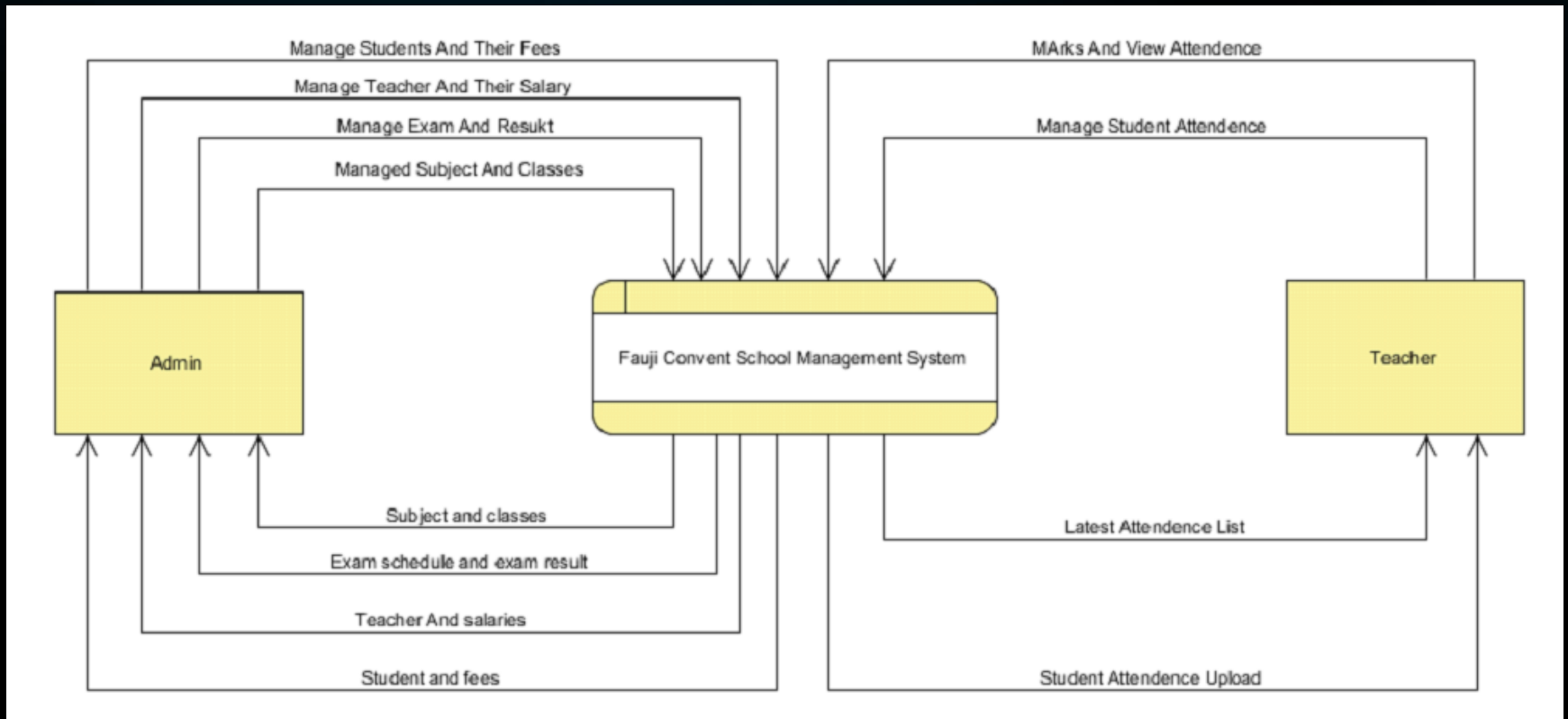
CHECK

SUBMIT

Forgot Password

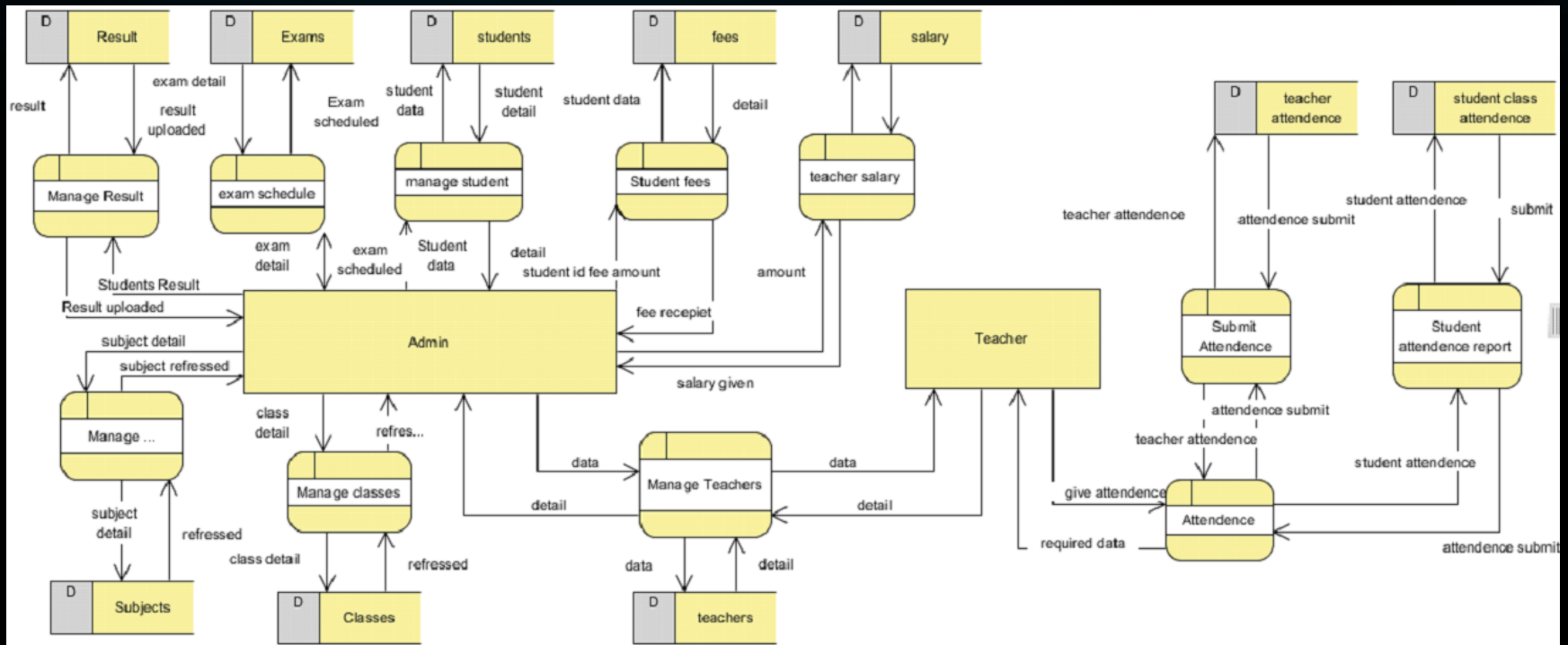
# Data flow diagram

## Level 0



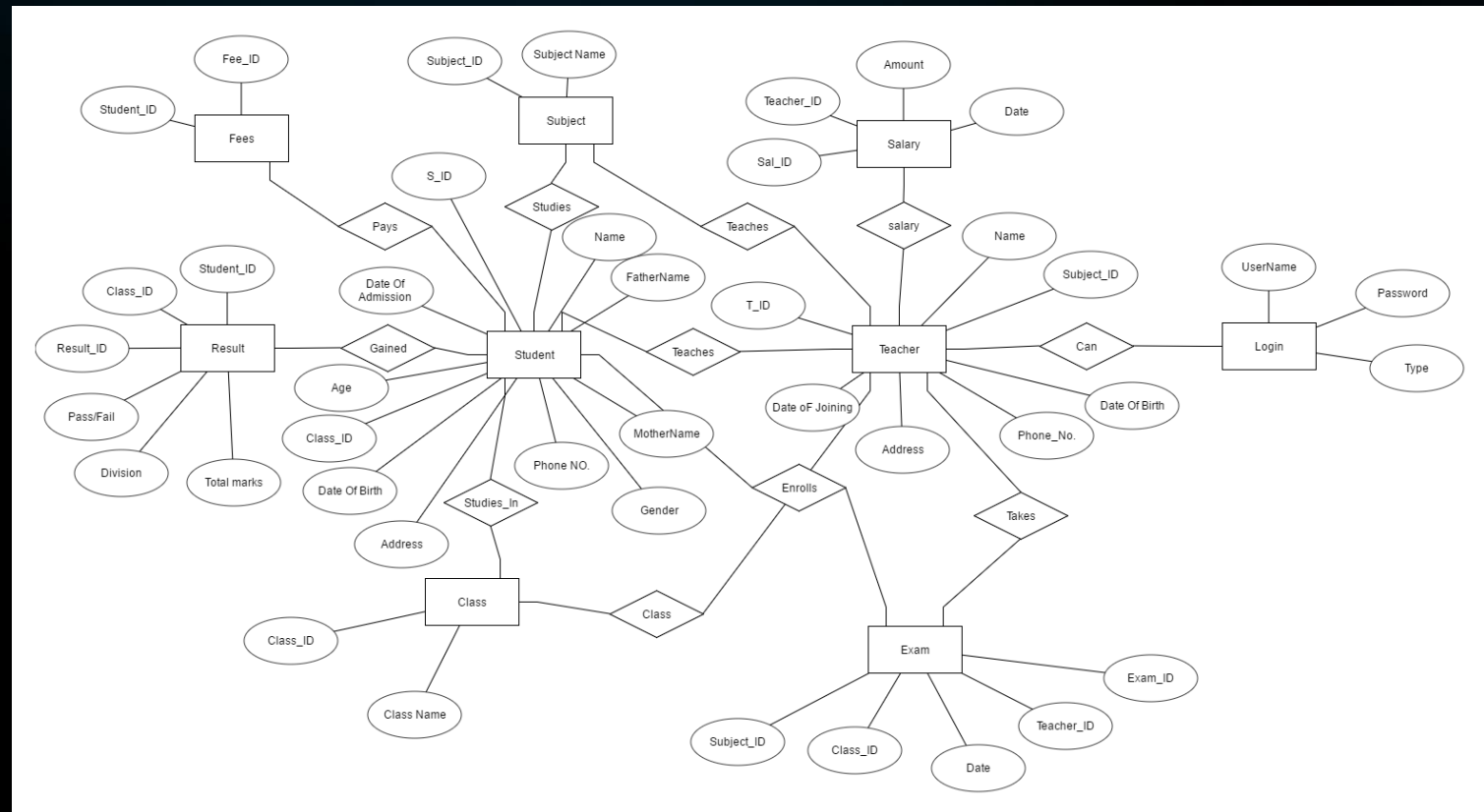
# Data flow diagram

## Level 1

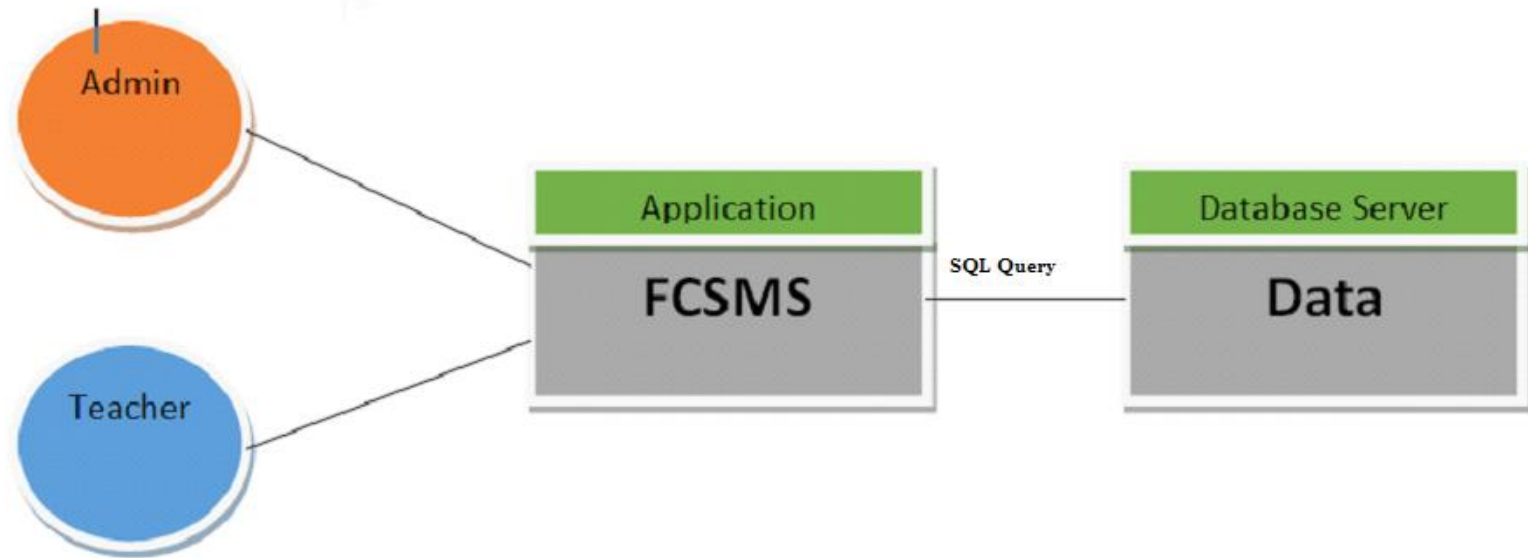




# ER Diagram



# Architecture of the System.



# Future Scope

- Nothing is perfect in this world. So, we are also no exception. Although, we have tried our best to present the information effectively, yet, there can be further enhancement in the Application.
- We have taken care of all the critical aspects, which were required by school to manage the
- Records. In future, we can add and update the software according to the requirements.
- Automatic Time Table Module is our future plan. We will develop the TimeTable Module in future,
- And one of the most crucial future plans with this application is that, we convert this into a LAN based application.

# Test Case

Test No.	Description	Test Data	Expected Result	Actual Result
1.	Clicking the login Button With invalid username or Password or both.	Username= " ABC" Password= "ABC"	A message box should display which contains invalid Username and password.	Pass
2.	Clicking the login Button Valid username and password.	Username="admin" Password="admin"	Redirect to specific Home page to specific user.	Pass



# Benefits

- Complete automation of all operations
- Centrally stored information with zero redundancy
- Reliable update on child's attendance, progress report and fee payment.
- Automated student attendance
- Computerized management of marks and grades
- Access to attendance, marks, grades and examination schedule

The background of the slide features a dark blue gradient with flowing, ethereal light blue waves or smoke-like patterns that sweep across the top and sides, creating a sense of movement and depth.

*Thank You*