



Case Study: K B. Modern High School **Solution Area:** School Management System.

Client Background:

K B. Modern High School is the one of the best schools of India. This Institution is affiliated to ICSE (Indian Certificate of Secondary Examination) council and ISC (Indian School Certificate Examination) council. The total strength of the school at present is about 1000 approximately.

The Opportunity:

The Client was looking for a complete tool to help overall administration of their school. A System which will be the best use of information will be available to it and churns out the more useful facts from a large amount of information will be available in the database thereby will allow them to make managerial decision leading to better management of resources and analysis of effectiveness of management decisions.

Project Brief:

Admission

This module manages the Registration and Admission process of students. Fully integrated with the accounts section, this module allows admission and registration manageable and removes complications arising from human errors.

Students are automatically treated differently based on the pre provided information.

Attendance

Attendance section plays different roles for Students and Employees. Student's attendance details act as a tool to identify irregularities in the academic interests of the students. The same can be used to assess the student and give individual attention to the causes of repetitive or long absences.

Employee attendances are used in conjunction with the payroll module to automatically implement the leave policies. Various types of leaves are available that may be marked for employees. Details of available as well as availed leaves are also available for each employee. The system also assists the user and restricts the user from assigning more than the prescribed number of leaves.

Fee

The module automatically calculates the pending fees, last fee payment details, deductions and concessions if any applicable to the selected student. In addition to the above, the user is also provided the option to allow payment of more than one month/fee-cycle fee.

Time Table

Only on one-time input of the basic information about the allocation of subjects to the teacher, Teacher to the classes and no of lectures for each subject to each class; the system intelligently generates the most probable combination of the time table and allocation of the time table for the session.

With computerized assistance, the time table can be modified by the time table in-charge person to suit more specific needs of the school as well as the staff while the computer will keep on prompting about the clashes and suggest possible resolution.

Examination

Examinations can be customized to suit the needs of the school as well as the needs of senior and junior learners.

From nursery to the senior most classes, and the marks and weight age to be carried into the final exams.

Given all this information, all we need to enter are the details of marks obtained for each class as the exams are taken. This system will take care of the rest and generate the detailed final and intermediate result sheets.

Library

Library module is a fully functional library management tool loaded with detailed options for entering the information about the books. Issues and returns are also managed without any user intervention. All the operator needs is to input the details of the book or the name of the student to whom the book was issued.

Moreover, this system also supports definition of a Library Fine policy so that the books returned late are fined according to the policies in control of a higher authority.

Inventory

Consumables as well as durables can be managed through this module and the same can easily be sorted. Appropriate reports regarding the issue of the stock items to the employees are available. Consumption summary can be deduced and efforts may be made to make the consumption more and more efficient.

Over time, we can have annual reports on the consumption and cost factors of the items in inventory.

Such a record of the inventory also imparts a sense of accountability on the in-charge/supervisor of the use of all such items.

Payroll

A fully functional payroll management system is integrated into this system ease to burden on HR department. The payroll module is fully compliant with the rules as laid down by Law. Various calculation parameters and the allowances are also configurable as per the user requirements.

The payroll module is capable of calculating the working days, payable amount, deductions etc. Various reports are also available to assist the management in calculating the expenses on salary as well as reports needed for departmental processes.

Accounts

The Integrated Accounting Package allows comprehensive management of accounts without the need of cumbersome posting of vouchers. Integrated with fee module, the accounts module automatically manages posting of fees into appropriate accounts heads.

Account Report

Account section is fortified by many reports that provide a detailed snapshot of various financial activities.

One can view the ledger statements, fee collection, Balance Sheet, drill down reports leading to individual transactions, voucher reports and various management level reports to provide a more abstract view of the Institution's financial position.

Reports

The Report Module is the vital module of this system which generates numerous reports that includes fee details, administration, library, student details, employees' details etc. Data navigates through all modules and the desired reports can be generated by a button click.

The Report Module includes the following reports:

Fee Details Report

The fee details report displays the reports regarding fee. This section of report includes “Admission Fee Receipt”, “Monthly Fee Receipt” etc.

Administration Report

The administration report displays the reports regarding institution administration.

Library Details

The library report displays the reports regarding the institution's library. This section of report includes “Books in Library”, “Issued Books” etc.

Student Details

The student report displays the report regarding students. This section has the following reports: Admission wise, Gender wise, Class wise, Complete Student Details, Roll Number wise etc

Employee Details

This Employee details report displays the report regarding the employee. This section includes Individual Employee Details, Department/ Designation wise Details etc.

Time Table Report

The time table report displays the reports regarding time table. This section includes Class Time Table, Teacher Time Table etc.

Class Details

The class details reports displays the report regarding class details. This section includes Class Subject, Examination Scheduling etc

Mark Sheet Report

The mark sheet report displays the report regarding class wise mark sheet. This section includes “Individual Student Report”, “Class Wise Report”, “Consolidated Sheet Class Wise Report” “Subject Topper Report” etc.

Attendance Report

The attendance report displays the attendance report for students as well employees. This section includes Student Attendance Details and Employee Attendance Details.

Technical Specifications

Key Components	
Front End	Java/J2EE
Technology	Servlet
Web Server	Tomcat 5.5
Database	MySQL