# ACKNOWLEDGEMENT

"No duty is more than that of returning thanks!"

"Task successful" makes everyone happy. But the happiness will be gold without glitter if we didn't state the persons who have supported us to make it a success.

Success will be crowned to people who made it a reality but the people whose constant guidance and encouragement made it possible will be crowned first on the eve of success.

I would like to show my greatest appreciation to Mr.Devji Chhanga(**Project Guide**). I can't say thank you enough for his tremendous support and help. I feel motivated and encouraged every time I attend his meeting. Without his encouragement and guidance this project would not have materialized.

I would like to acknowledge the Department of Computer Science, K.S.K.V Kachchh University for provide me constant support and help.

# ABSTRACT

I am proud to introduce one of the most technically advanced software for school management and administration. My solution not only reduces the manual work and administration hassles but to keeps the goodwill of school growing by maintaining closer relationships with students, staff.

Now days each and every primary as well as secondary schools are working on paper-based work, that's very time-consuming and tedious task. to solve this problem I developed "School Management System" that contain all task and work are done in school, converting all manual work to computerized.

It contain all information regarding student's like General Register, Admission process, Fees, scholarship, Result mark sheet, Leaving Information of student, Employee Registration, Employee Resign, Employee Salary pay slip, Allowance/Tax Updating system etc.

In this system there are two types of user admin and employee means admin is principal, employee means teacher, peon, clerk etc, each and every user has different user rights and limitation Principal having full rights in system whereas employees don't have full rights.

First of all I deeply learn whole manual work of school management like maintaining General register and how actually student admission are to be processed, how HRM or salary pay slip are maintain, how scholarship are calculated based on different category of student, after completing research I visited some high school as well as primary school and start to gather requirements and done analysis on that requirements and finally done all steps of software development life cycle.

"School Management System" Build Under One of the Strong and Secure latest technology of Microsoft Like VB.Net, MS SQL SERVER with latest developer tools like Dev-express.

It'll help you with your daily school management routines and deliver you from your paperwork.

## An Introduction to school Management System

- "School Management System" is for Primary as well as secondary ,Higher-secondary school
- Having aim to reduce manual work, provide time efficiencies, and optimise finances, Encompasses all aspects of academic management and simplifies processes
- A secure system which safe fee and scholarship transactions and reduce the tedious manual reporting and entry tasks
- Complete integration and end to end automation of financial, academic, administrative and management operations.
- Time Saving and User-friendly solutions a single click away
- Single click solutions for many of the time consuming operations like payroll, staff substitution, fee collection etc that saves precious time of the administrative staff.

## THE MAIN PRINCIPLES:

### SECURITY

- The Security Subsystem supports dividing users into several groups
- Each Group has its own set of rights for viewing or changing data.
- Role base security management
- User creation and privilege setting
- Admin Permission to view, print and Export for Reports
- Editing And Deleting Data Permission
- Customized Data Export to Pdf, Other formats

### THE HIGHEST RELIABILITY

- Data Management System is based on Transactions.

- Transactional system never allows your data to be lost or corrupted because accidents such as electricity cutting or hardware errors.

- Don't lost your data-Even after deleting it's possible to restore your data.

- Double check before changing- User will be asked twice before the programmer deletes any data.

### Simplicity

- Friendly user interface allows you start to work with the programme easily.

- The Programme will lead you in any your work.

- Multiuser Great Capability

## Major Modules

### Student

- Admission Management
- School General Register(G.R) Management
- Fee Acceptance Management
- Scholarship Transaction Management
- Latest Result and Exam Management

### Employee

- Employee Registration System
- Employee HRM System
- Latest Allowance /Tax Update System

### Others

- Multi-User Registration
- User Log Maintenance
- Data Backup/Restore Utility

- Class Management
- Subject Management

## Standard User-friendly Reporting System

- Student Admission Report
- Student GR(General Register) Report
- Student Fees Receipt
- Student Fees Statement
- Scholarship Statement
- Student Result
- Employee Information Report
- Employee Salary Report
- Current User Information Report
- System Log Info Report
- Allowance Update Statement
- Tax Update Statement

# PROJECT PROFILE

| | |
|---|---|
| Project Title | School Management System |
| Design & Developed By | Chetan J.Khatri,Sem-6th,T.Y.Msc(CA & IT) |
| Clients | ➢ Mrs.V.K.J And V.D.S Highschool, Kotdi-Mahadevpuri,Mandvi-Kachchh<br>➢ G.M.D.C. Highschool Sukhapar-Bhuj-Kachchh<br>➢ Shri Tara Panchayati primary School<br>Others… |
| Academic year | 2013-2014 |
| Operating System | Windows 7 or above |
| Project Guide | Mr.Devji D.Chhanga |
| Project Submitted to | Department of Computer Science of K.S.K.V.KachchhUniversity ,Bhuj-Kachchh |

## PERFORMACE REQUIREMENTS

### 1. HARDWARE REQUIREMENTS

| Content | | Description |
|---|---|---|
| Used | HDD | 500 GB |
| | RAM | 4 GB |
| Required | HDD | 80 GB |
| | RAM | 512 MB |

## 2. SOFTWARE REQUIREMENT

| Content | Description |
|---|---|
| OS | Windows 7 or above |
| Database | MS SQL SERVER 2005 |

## 3. Tools

| Content | Description |
|---|---|
| IDE | Visual studio 2008 |
| Other controls | Dev-Express V 8.3 |

# FEASIBILITY

Preliminary investigation examine project feasibility, the likelihood the system will be useful to the organization. The main objective of the feasibility study is to test the technical, Operational and Economical feasibility for adding new modules and debugging old running system. All system is feasible if they are unlimited resources and infinite time. There are aspects in the feasibility study portion of the preliminary investigation.

- Technical Feasibility
- Operational Feasibility
- Economical Feasibility

**TECHNICAL FEASIBILITY**

In the feasibility study first step is that the organization or company has to decide that what technologies are suitable to develop by considering existing system. Here in this software used the technologies like Visual Studio 2008 and Ms SQL server 2005.

**OPERATIONAL FEASIBILITY**

Not only must an application make economic and technical sense, it must also make operational sense.

Issues to consider when determining the operational feasibility of a project

| Operations Issues | Support Issues |
|---|---|
| ➢ What tools are needed to support Operations?<br>➢ What skills will operators need to be trained in?<br>➢ What processes need to be created and/or updated?<br>➢ What documentation does an operation need? | ➢ What document action will users be given?<br>➢ What training will users be given?<br>➢ How will change requests be managed? |

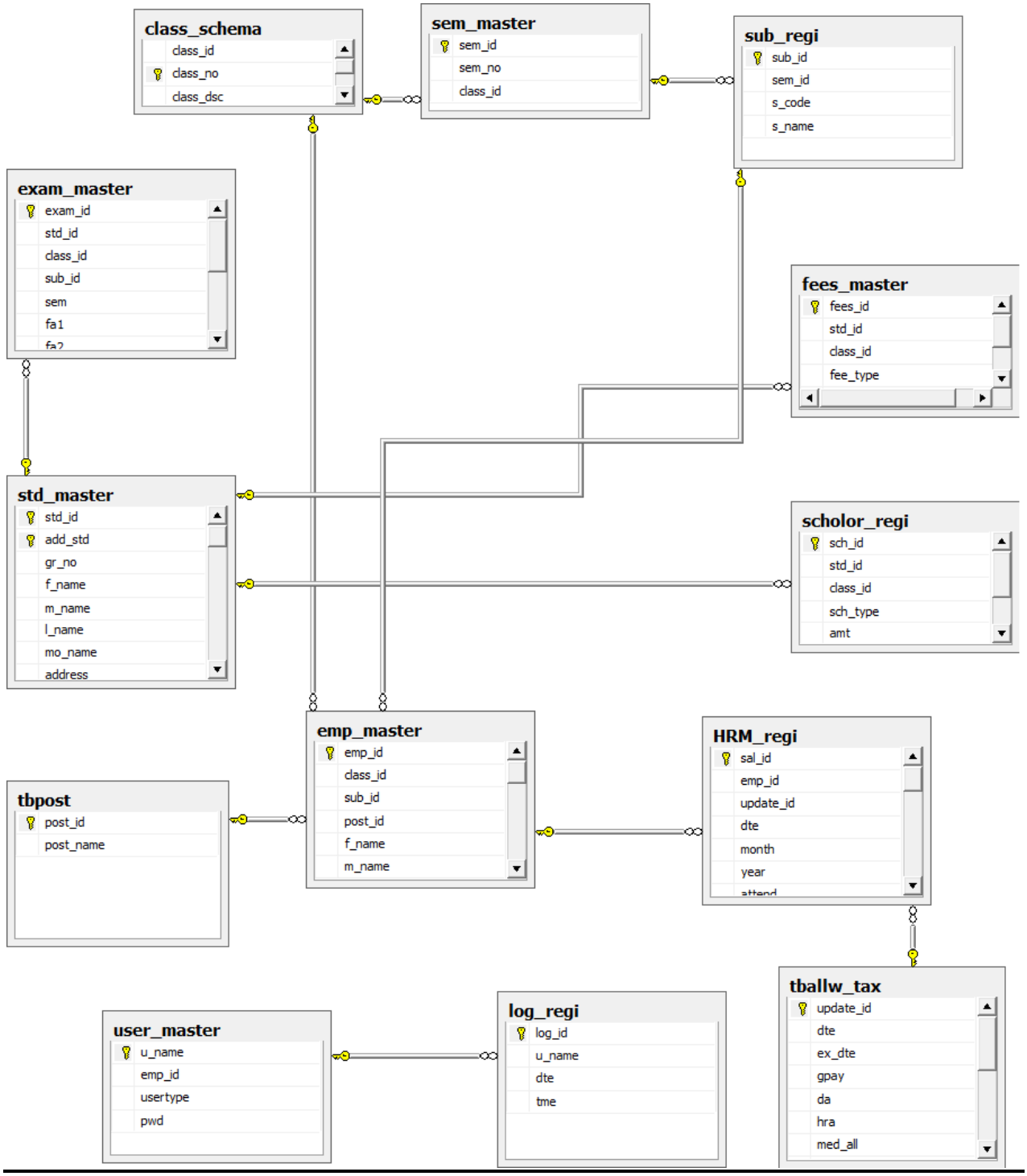
Very often you will need to improve the existing operations, maintenance, and support infrastructure to support the operation of the new application that you intend to develop. To determine what the impact will be you will need to understand both the current operations and support infrastructure of your organisation and the operations and support characteristics of your new application.

**ECONOMICAL FEASIBILITY**

It refers to the benefits or outcomes we are deriving from the product as compared to the total cost we are spending for developing the product. If the benefits are more or less the same as the older system, then it is not feasible to develop the product.

In the present system, the development of new product greatly enhances the accuracy of the system and cuts short the delay in the processing of birth and death application. The errors can be greatly reduced and at the same time providing a great level of security .Here we don't need any additional equipment except memory of required capacity.

# E-R-DIAGRAM


class_schema
class_id
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class_dsc
sem_master
sem_id
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sub_regi
sub_id
sem_id
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s_name
exam_master
exam_id
std_id
class_id
sub_id
sem
fa1
fa2
fees_master
fees_id
std_id
class_id
fee_type
std_master
std_id
add_std
gr_no
f_name
m_name
l_name
mo_name
address
scholor_regi
sch_id
std_id
class_id
sch_type
amt
emp_master
emp_id
class_id
sub_id
post_id
f_name
m_name
HRM_regi
sal_id
emp_id
update_id
dte
month
year
tbpost
post_id
post_name
tballw_tax
update_id
dte
ex_dte
gpay
da
hra
med_all
user_master
u_name
emp_id
usertype
pwd
log_regi
log_id
u_name
dte
tme

# DATA-DICTIONARY

| **(1)Table :– Class_schema**<br><br>**Descriptions:- Information About Class** | | |
|---|---|---|
| **Column Name** | **Data Type** | **Remarks** |
| Class_id | Int | <S.K> |
| Class_no | Int | <P.K> |
| Class_dsc | Varchar(15) | |
| **(2)Table :- sem_master**<br><br>**Descriptions:- Information About Semester** | | |
| Sem_id | Int | <P.K> |
| Sem_no | Int | |
| Class_id | Int | <F.K> |
| **(3)Table :- sub_regi**<br><br>**Descriptions:- Information About Subject** | | |
| Sub_id | Int | <P.K> |
| Sem_id | Int | <F.K> |
| s_code | varchar(20) | |
| s_name | varchar(20) | |
| **(4)Table :- std_master**<br><br>**Descriptions:- Information About Student** | | |
| std_id | Int | <P.K> |
| add_std | numeric(5, 0) | <P.K> |

| | | |
|---|---|---|
| gr_no | Int | |
| f_name | varchar(15) | |
| m_name | varchar(15) | |
| l_name | varchar(15) | |
| mo_name | varchar(15) | |
| Address | varchar(350) | |
| Stdfrom | varchar(10) | |
| Stddob | varchar(11) | |
| Gender | varchar(10) | |
| Category | varchar(10) | |
| blood_grp | varchar(8) | |
| Contactno | numeric(18, 0) | |
| Phno | numeric(18, 0) | |
| Mail | varchar(50) | |
| add_dte | Datetime | |
| add_std | numeric(5, 0) | |
| Skill | varchar(350) | |
| f_contact | numeric(18, 0) | |
| f_business | varchar(50) | |
| f_income | numeric(12, 0) | |
| income_certi | varchar(5) | |
| caste_certi | varchar(5) | |
| lc_entry | varchar(5) | |

| | | |
|---|---|---|
| result_entry | varchar(5) | |
| Entrance | varchar(5) | |
| last_Scl | varchar(50) | |
| Photo | varchar(400) | |
| Sign | varchar(400) | |
| Year | numeric(5, 0) | |
| Remarks | varchar(400) | |
| leave_dte | Datetime | |
| leave_rsn | varchar(250) | |
| Progress | varchar(8) | |
| Conduct | varchar(8) | |
| try_pass | numeric(2, 0) | |
| **(5)Table:- fees_master**<br><br>**Descriptions:- Information About Fees Collection** | | |
| fees_id | Int | <P.K> |
| std_id | Int | <F.K> |
| class_id | numeric(5, 0) | <F.K> |
| fee_type | varchar(30) | |
| Amt | Int | |
| Dte | varchar(40) | |
| **(6)Table:- scholor_regi**<br><br>**Descriptions:- Information About Scholarships Distributions** | | |
| sch_id | Int | <P.K> |

| | | |
|---|---|---|
| std_id | Int | <F.K> |
| class_id | numeric(5, 0) | <F.K> |
| sch_type | varchar(20) | |
| Amt | Int | |
| Dte | varchar(40) | |
| **(7)Table:- exam_master**<br><br>**Descriptions:- Information About Examinations And Result** | | |
| exam_id | Int | <P.K> |
| std_id | Int | <F.K> |
| class_id | numeric(5, 0) | <F.K> |
| sub_id | Int | <F.K> |
| Sem | Int | |
| fa1 | numeric(4, 0) | |
| fa2 | numeric(4, 0) | |
| sa1 | numeric(4, 0) | |
| Siddhi | numeric(4, 0) | |
| Krupa | numeric(4, 0) | |
| Total | numeric(18, 0) | |
| Status | varchar(8) | |
| **(8)Table:- tbpost**<br><br>**Descriptions:- Information About Employee Designations** | | |
| post_id | Int | <P.K> |
| post_name | varchar(25) | |

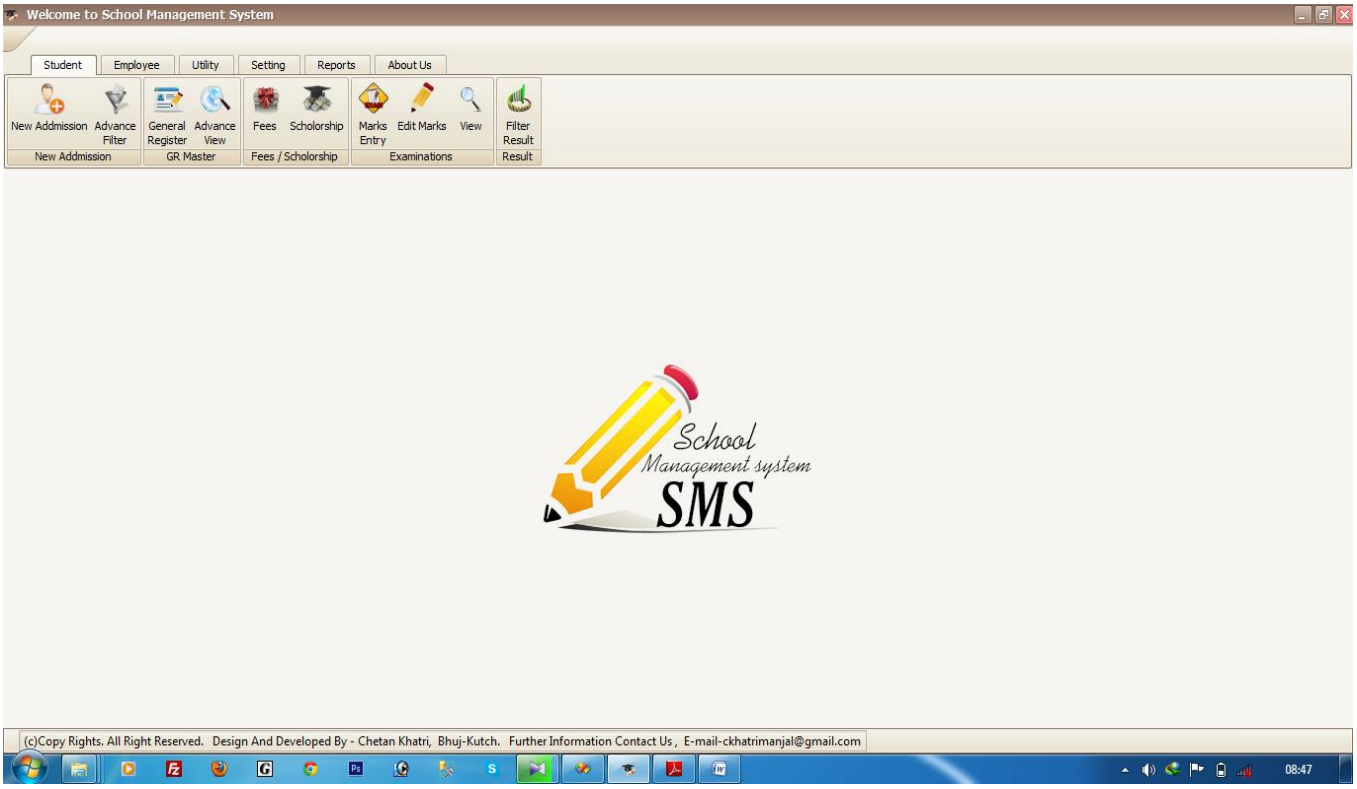
| **(9)Table:- emp_master**<br><br>**Descriptions:- Employee Profile** | | |
|---|---|---|
| emp_id | Int | <P.K> |
| class_id | Int | <F.K> |
| sub_id | Int | <F.K> |
| post_id | Int | <F.K> |
| f_name | varchar(15) | |
| m_name | varchar(15) | |
| l_name | varchar(15) | |
| Address | varchar(350) | |
| co_no | varchar(15) | |
| Email | varchar(50) | |
| Tax | varchar(10) | |
| gov_no | varchar(50) | |
| Dob | varchar(20) | |
| e_gender | varchar(10) | |
| dte_frm | varchar(20) | |
| dte_to | varchar(20) | |
| Pan | varchar(30) | |
| Pran | varchar(30) | |
| Gpf | varchar(30) | |
| Cpf | varchar(30) | |
| Status | varchar(5) | |

| | | |
|---|---|---|
| Photo | varchar(350) | |
| Sign | varchar(350) | |
| **(10)Table:- HRM_regi**<br><br>**Descriptions:- Information About Employee Human Resource Management** | | |
| sal_id | Int | <P.K> |
| emp_id | Int | <F.K> |
| update_id | Int | <F.K> |
| Dte | Datetime | |
| Month | Int | |
| Year | Int | |
| Attend | Int | |
| Basic | numeric(18, 0) | |
| g_pay | numeric(18, 0) | |
| Da | numeric(18, 0) | |
| Hra | numeric(18, 0) | |
| med_all | numeric(18, 0) | |
| Fpi | numeric(18, 0) | |
| cash_all | numeric(18, 0) | |
| was_all | numeric(18, 0) | |
| Gross | numeric(18, 0) | |
| Gpf | numeric(18, 0) | |
| Cpf | numeric(18, 0) | |
| Pf | numeric(18, 0) | |

| | | |
|---|---|---|
| in_tax | numeric(18, 0) | |
| Gi | numeric(18, 0) | |
| Deduction | numeric(18, 0) | |
| net_sal | numeric(18, 0) | |
| **(11)Table:- user_master**<br><br>**Descriptions:- Information About User** | | |
| u_name | varchar(50) | <P.K> |
| emp_id | Int | |
| Usertype | varchar(10) | |
| Pwd | varchar(50) | |
| **(12)Table:- log_regi**<br><br>**Descriptions:- Information About User Log** | | |
| log_id | Int | <P.K> |
| u_name | varchar(50) | |
| Dte | varchar(50) | |
| Tme | varchar(50) | |
| **(13)Table :- tballw_tax**<br><br>**Descriptions:- Information About Allowance & Tax Rate's** | | |
| update_id | Int | <P.K> |
| Dte | Datetime | |
| ex_dte | Datetime | |
| Gpay | numeric(8, 2) | |
| Da | numeric(8, 2) | |

| | | |
|---|---|---|
| Hra | numeric(8, 2) | |
| med_all | numeric(8, 2) | |
| Fpi | numeric(8, 2) | |
| cash_all | numeric(8, 2) | |
| was_all | numeric(8, 2) | |
| Gpf | numeric(8, 2) | |
| Cpf | numeric(8, 2) | |
| Pf | numeric(8, 2) | |
| It | numeric(8, 2) | |
| gi | numeric(8, 2) | |

**Home Screeen**:-

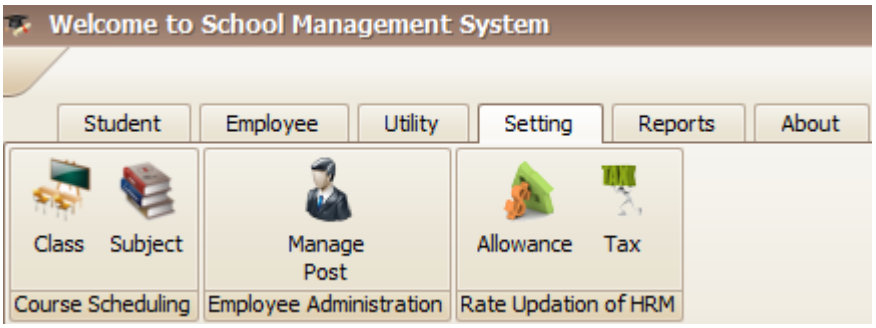



Student Module:-

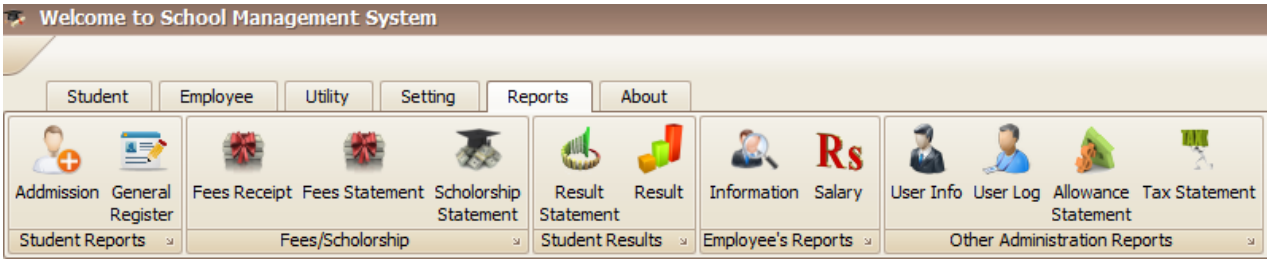
Employee Module:-

Utility Module:-

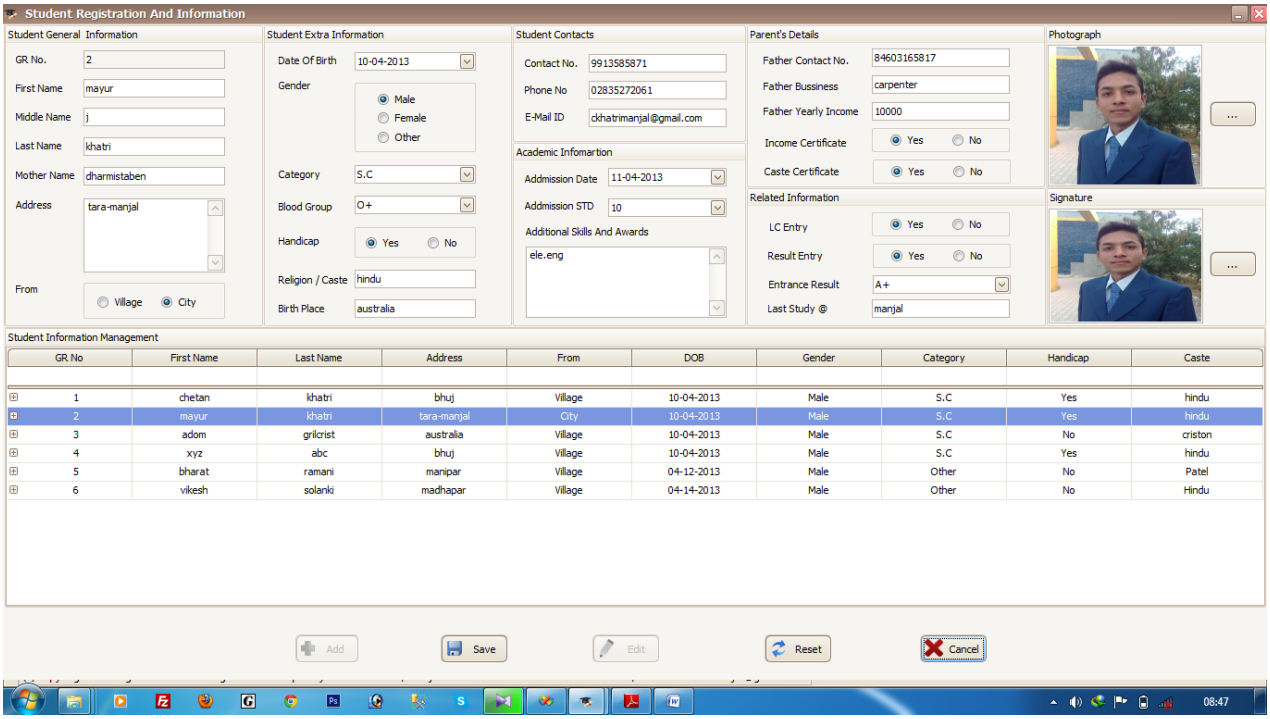
Setting Module:-



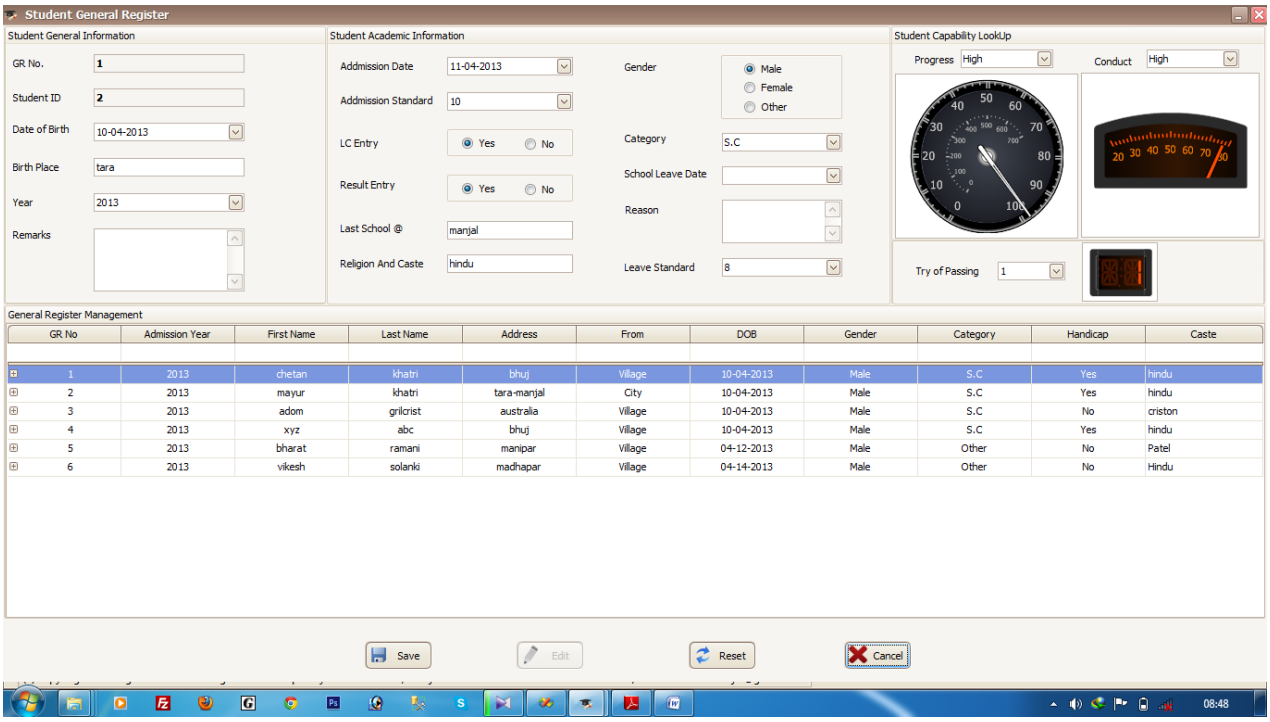

Reports:-



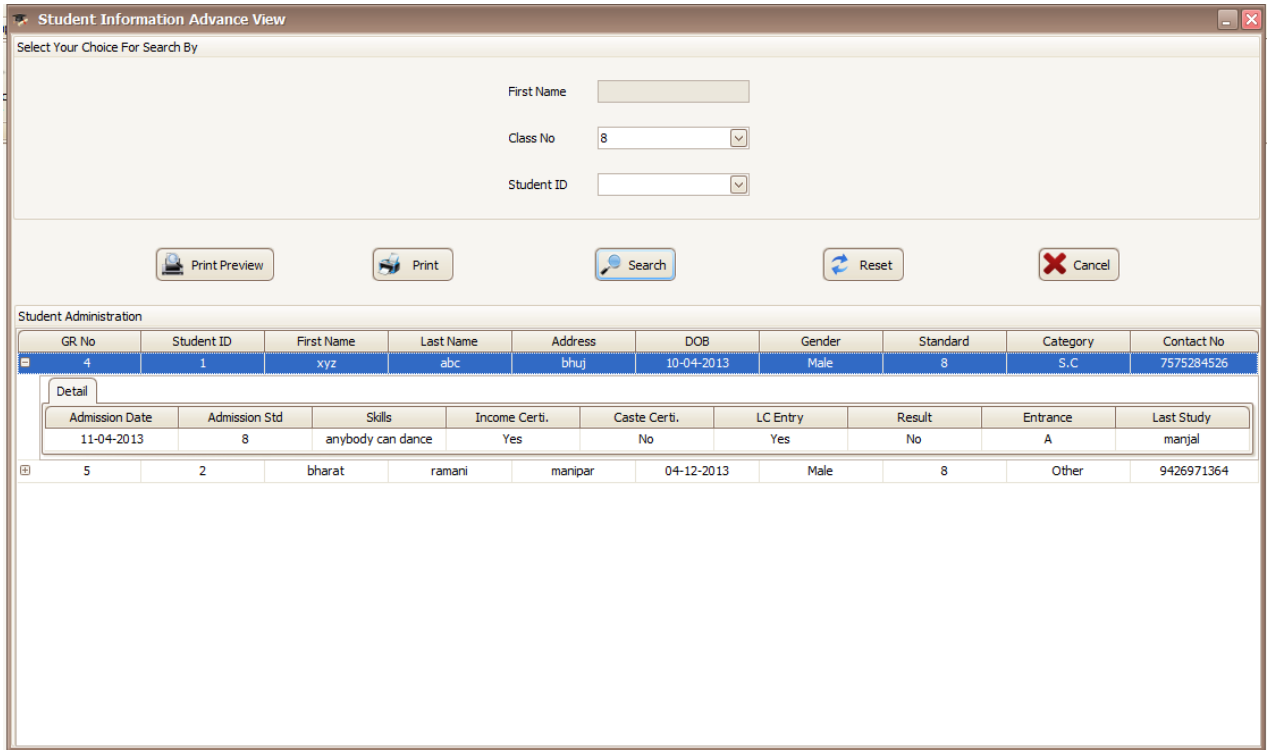

Student Admission Form:-



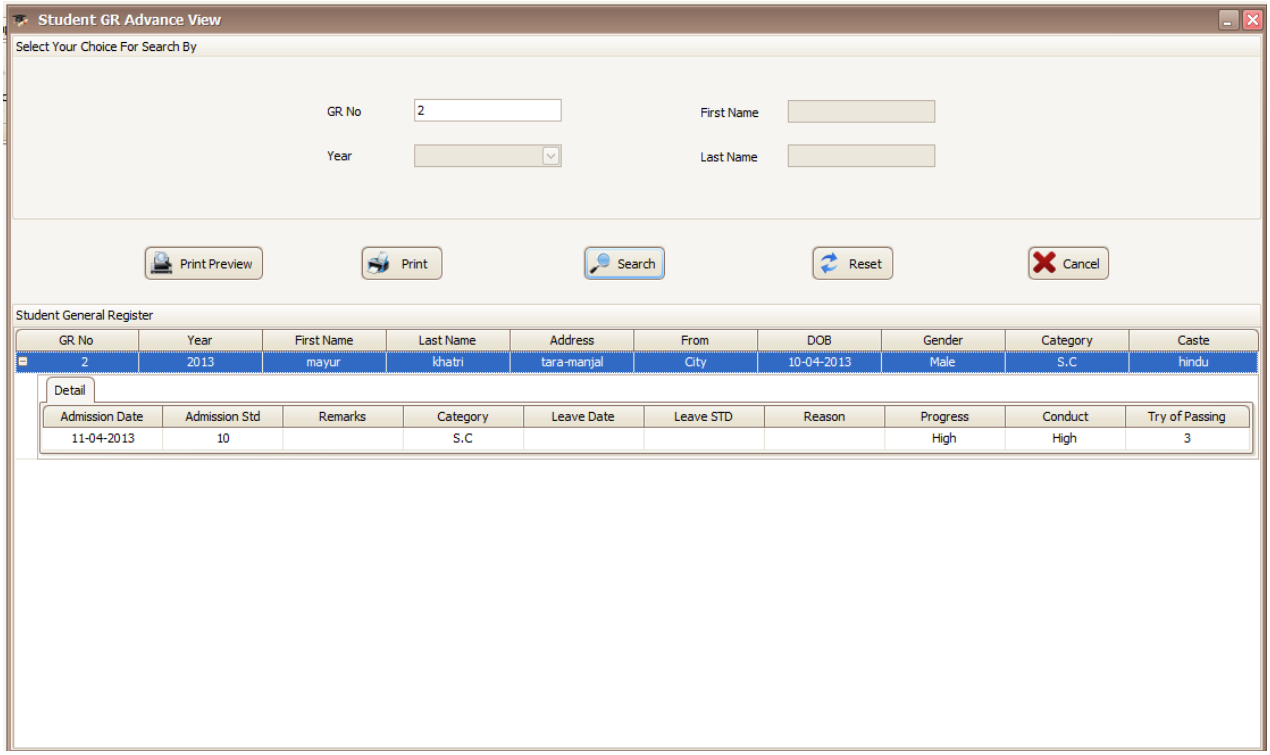

General Register:-



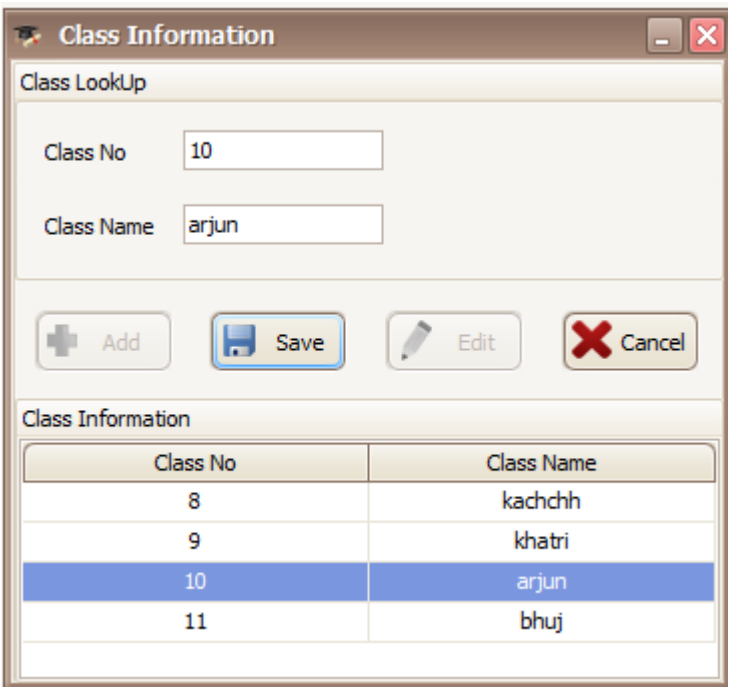

Student Advance View :-



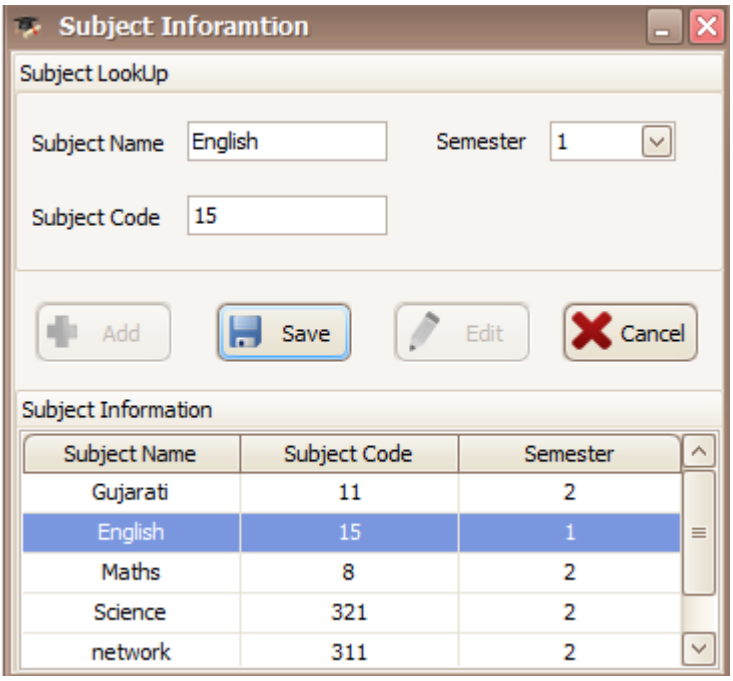

GR Advance View:-



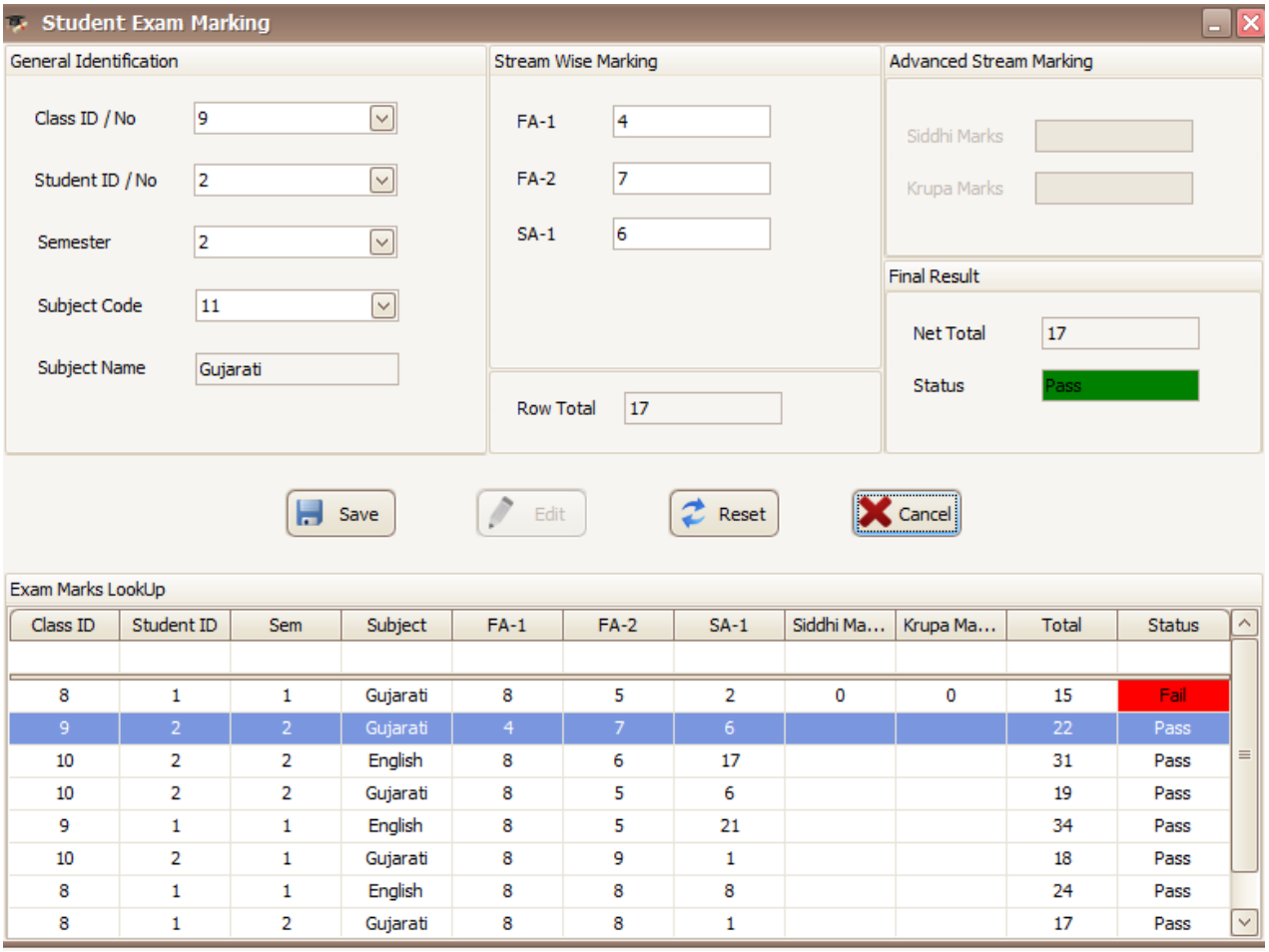

Class Management:-

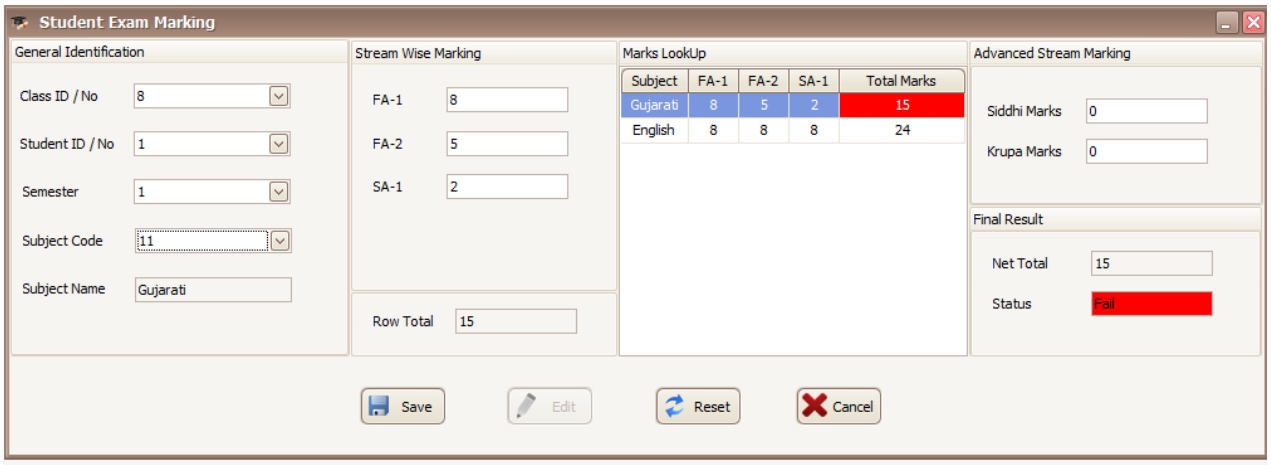



Subject Management:-

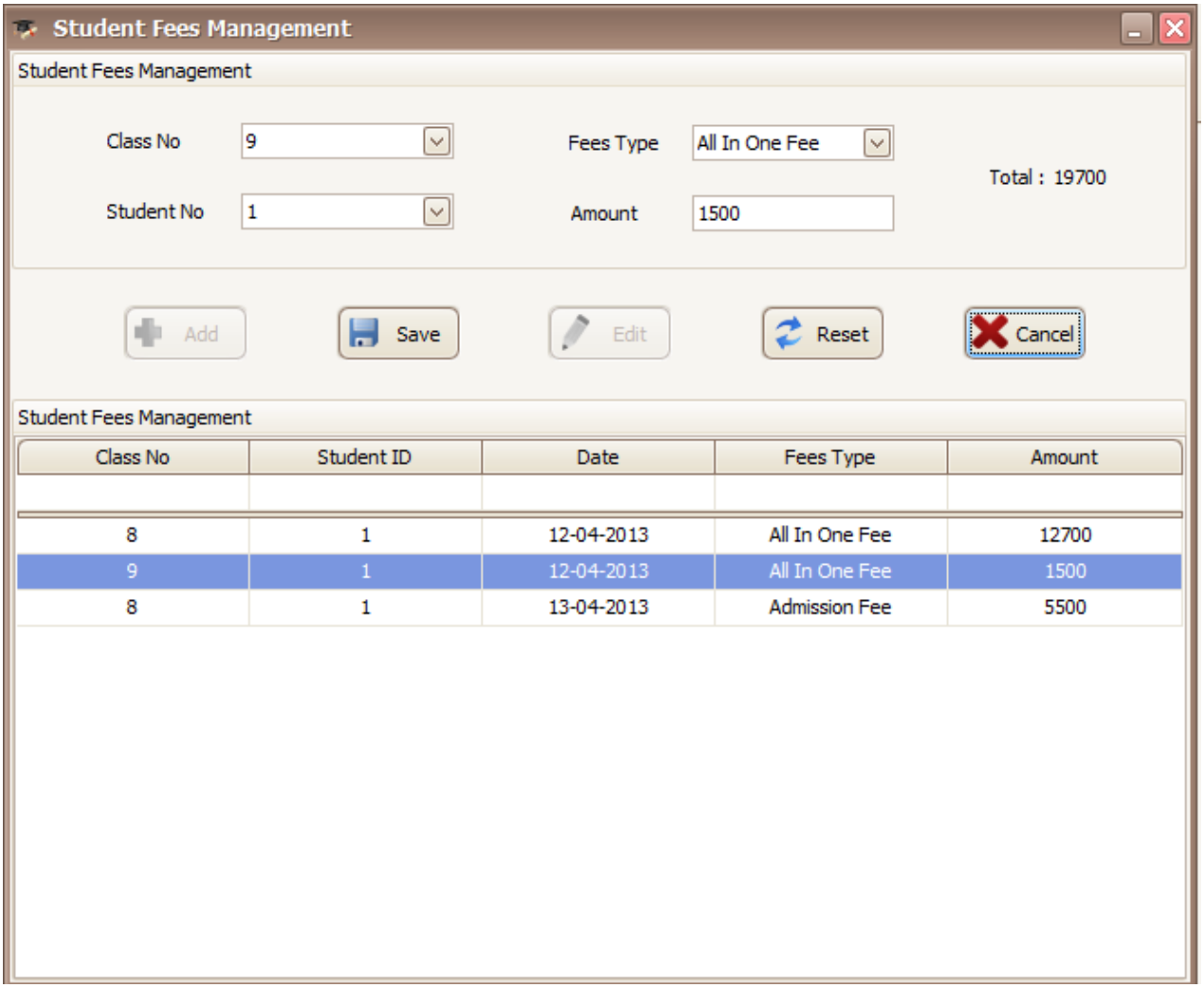



Advanced Marking System:-

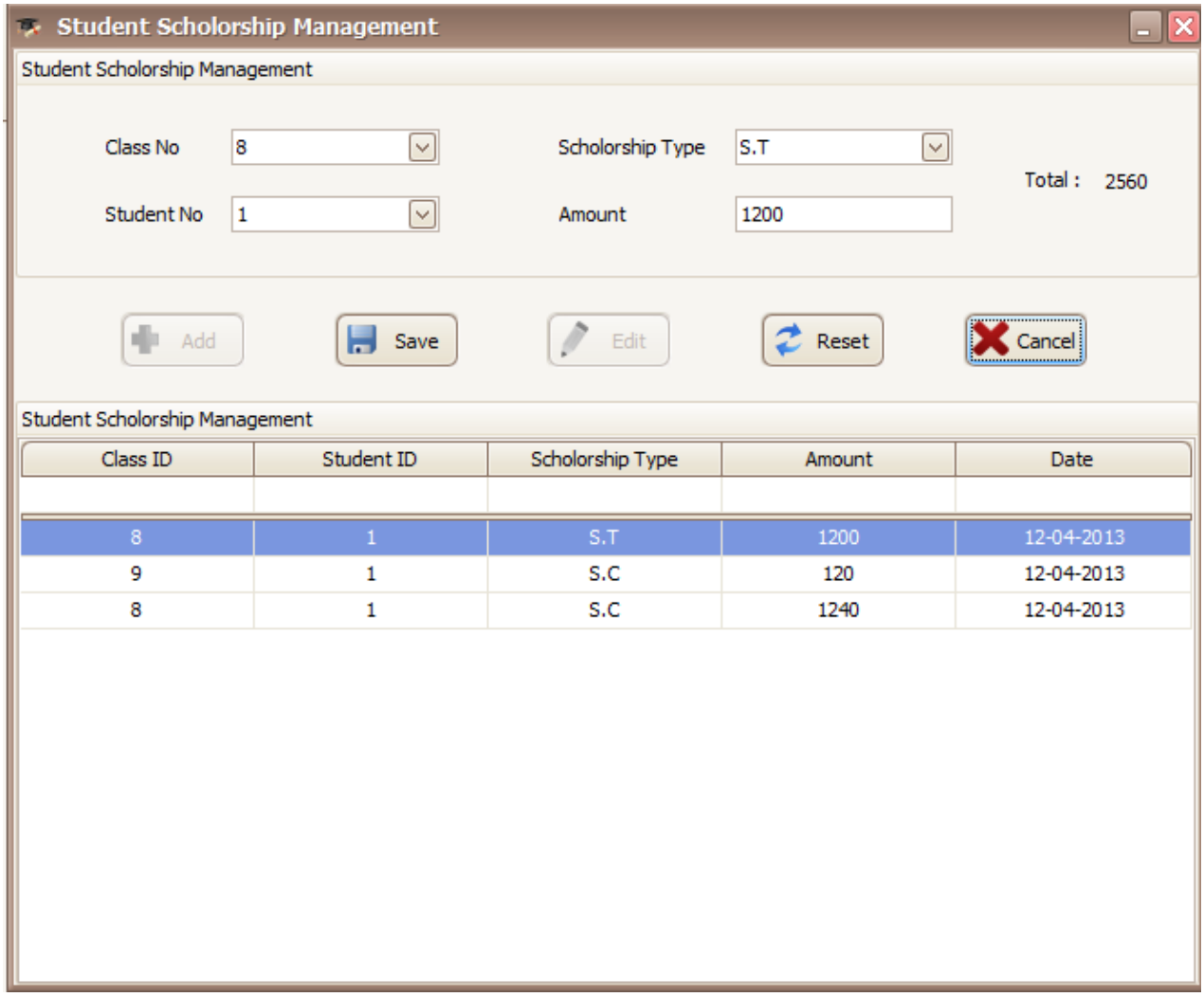


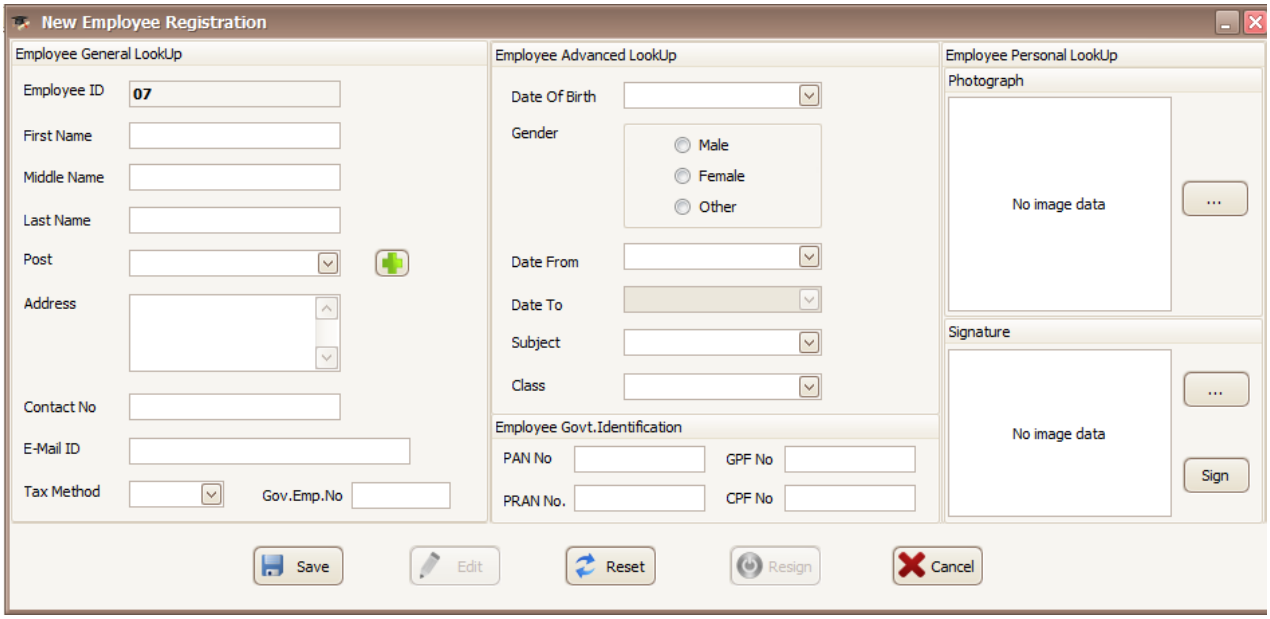

Student Fees Collection:-



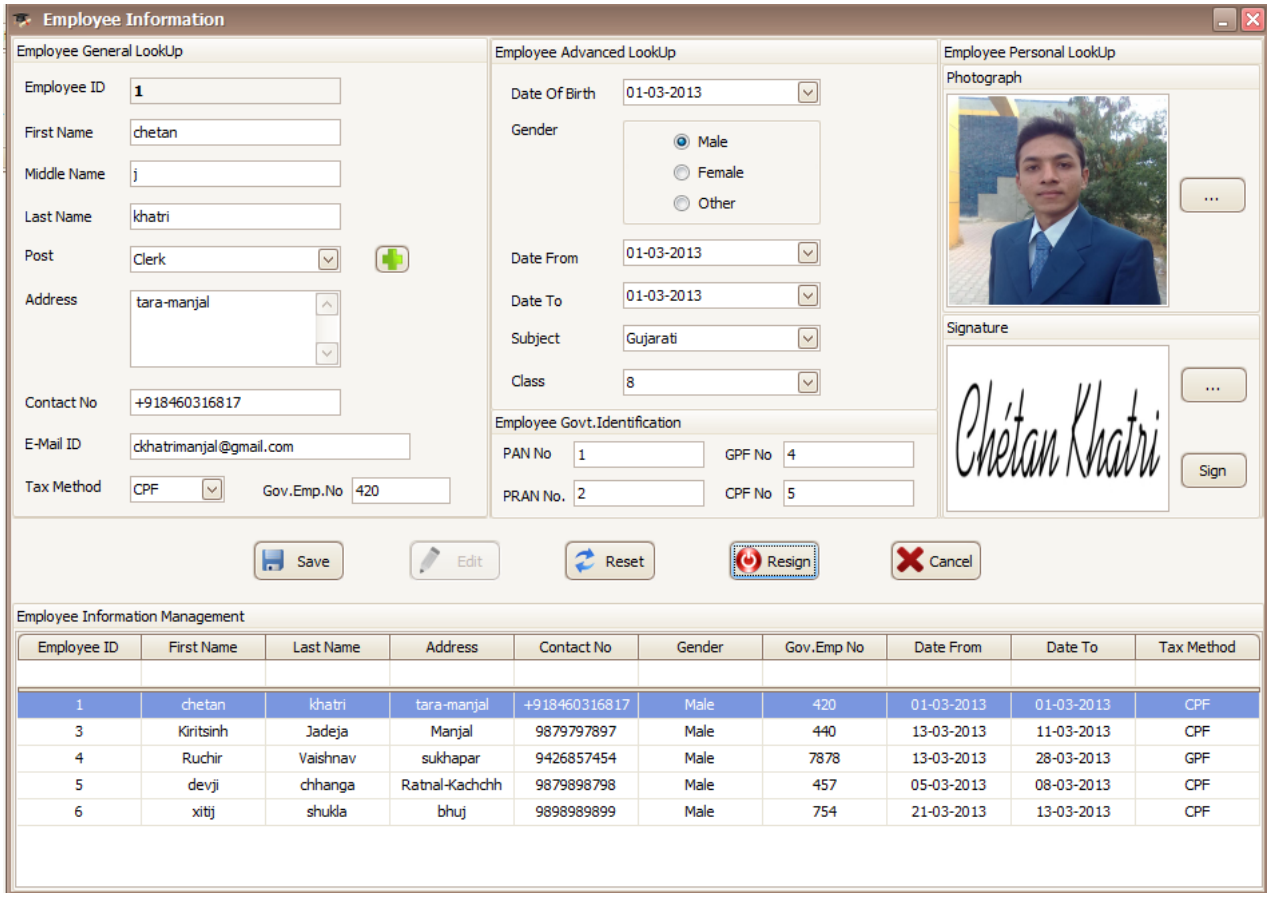

Student Scholarships Distribution:-



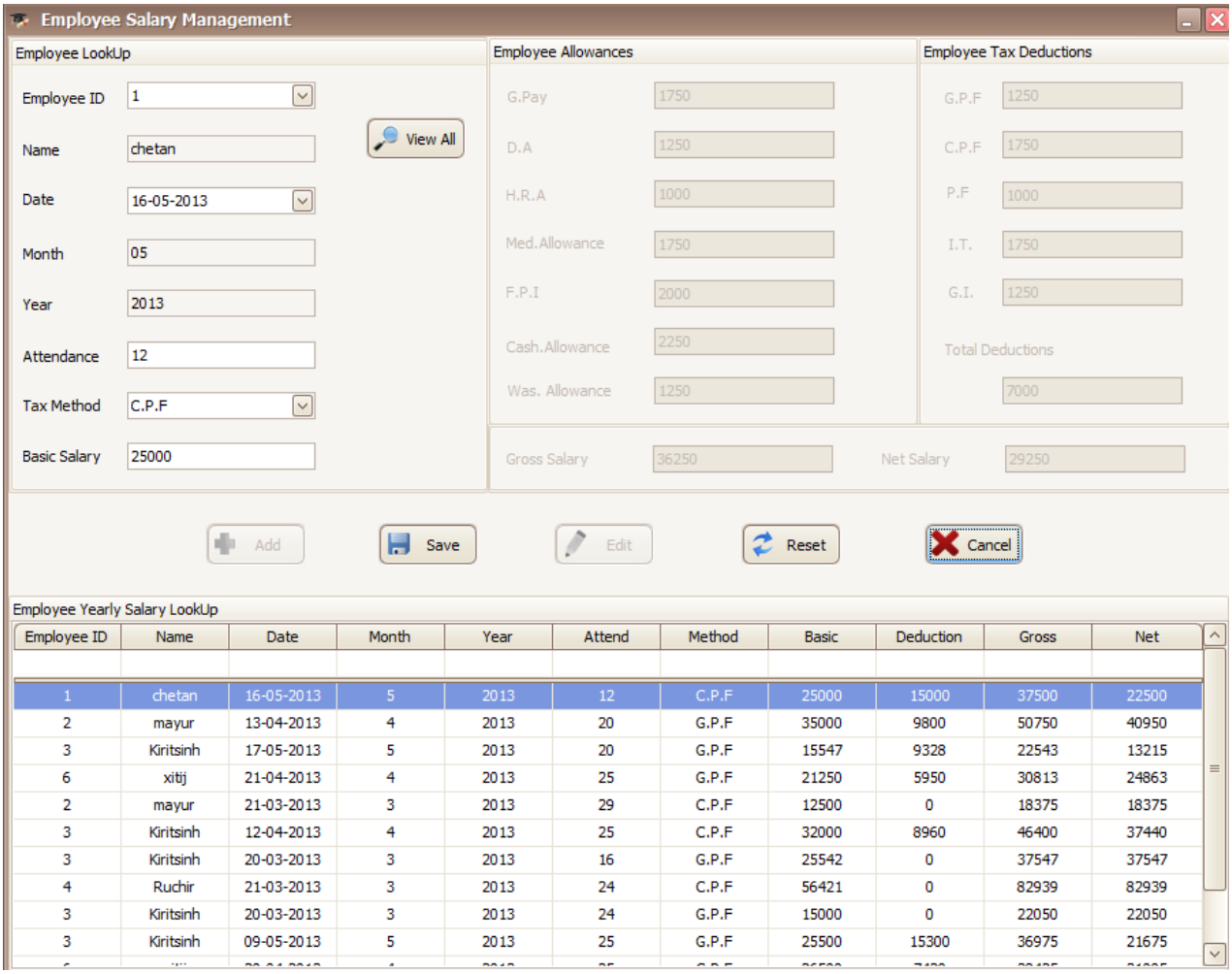

Employee Registration:-



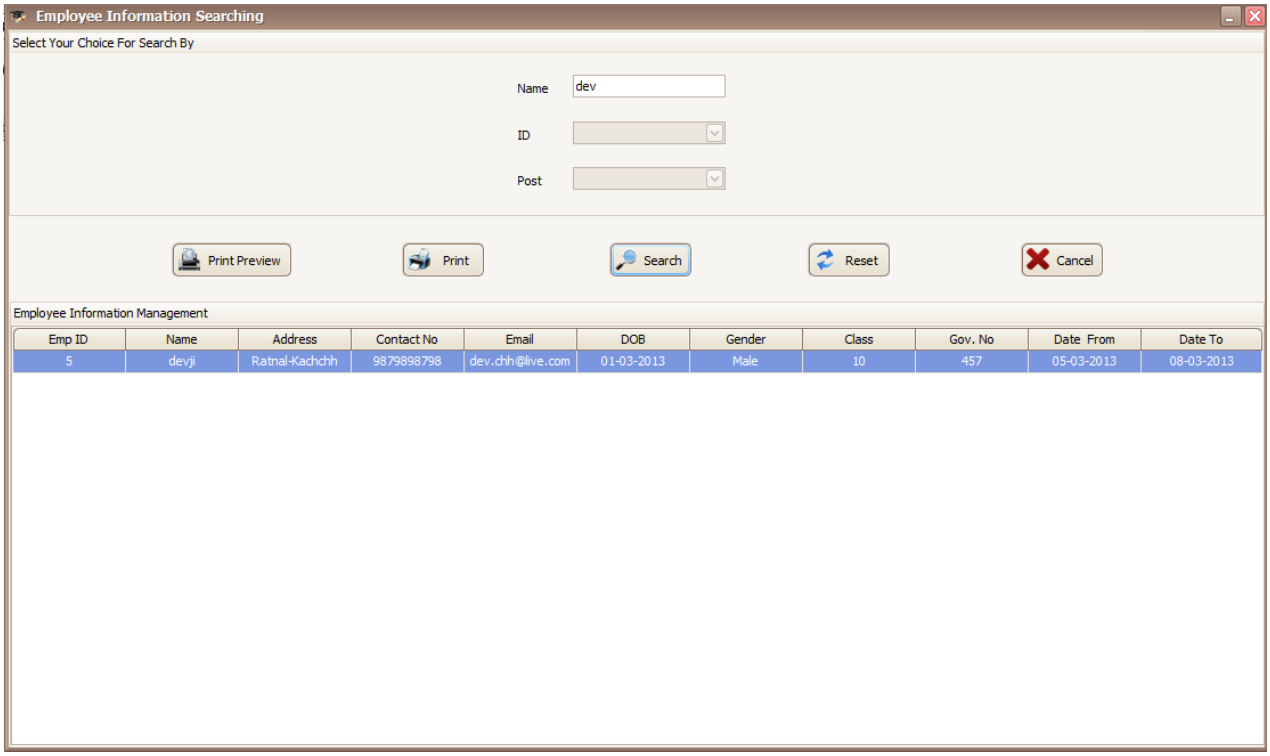
## Employee Information Management:-



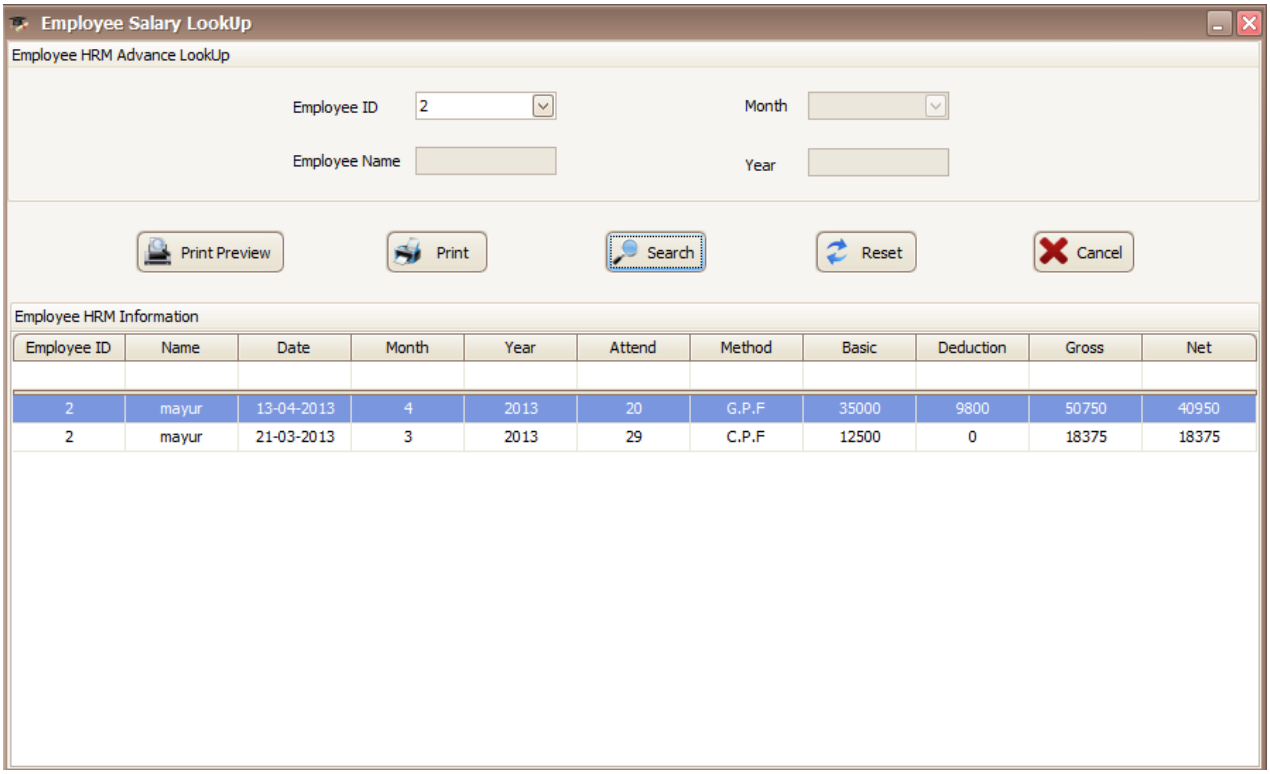

Employee HRM System :-




Employee Info View:-

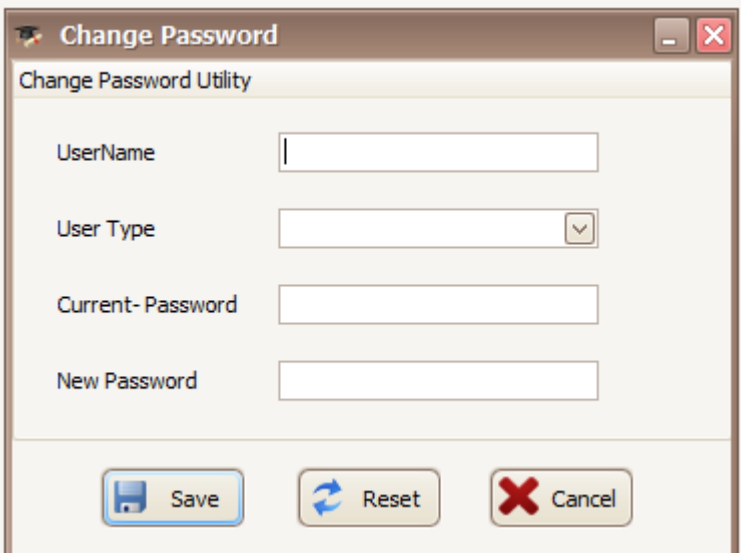



Employee Salary LookUp:-

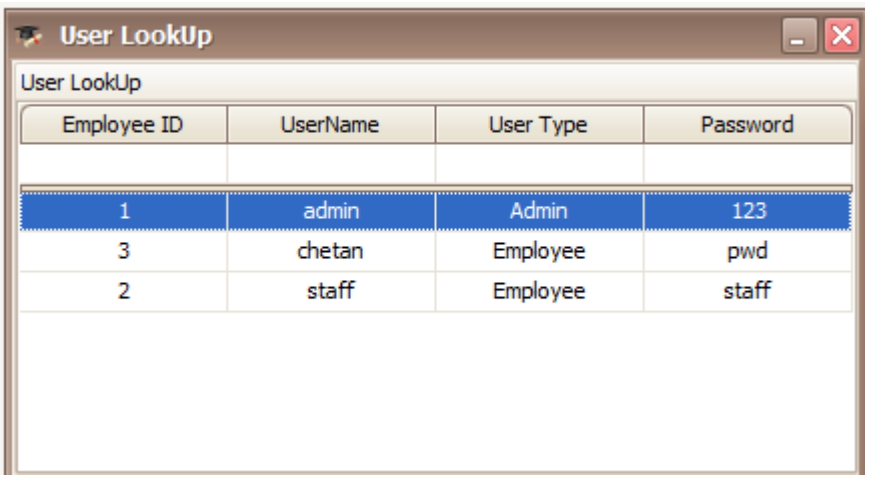



New User Registration :-

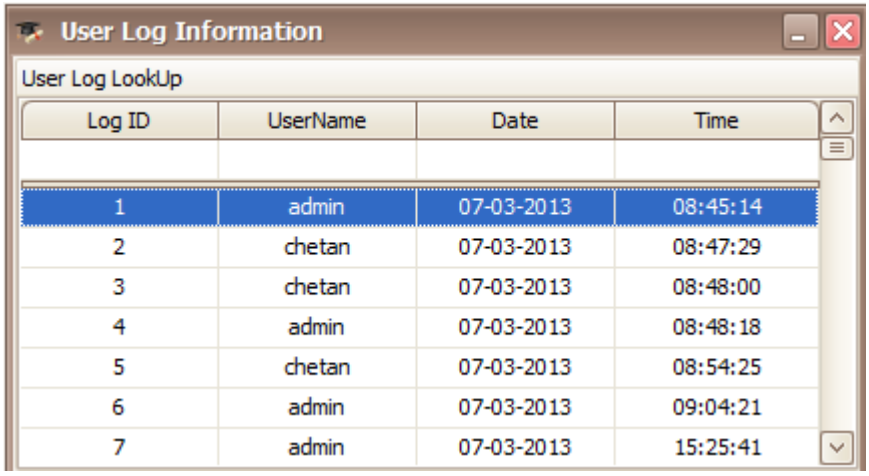
Change Password utility:-



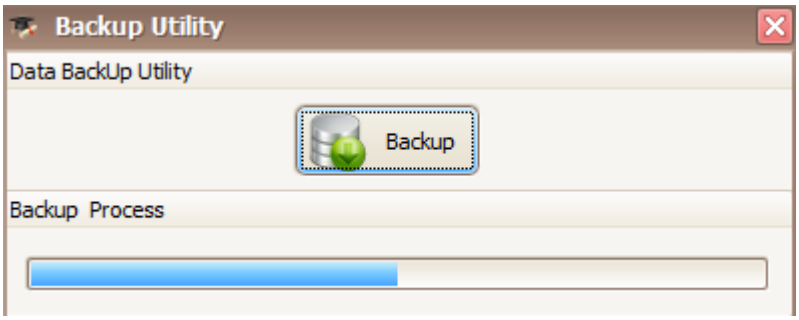

User Lookup for Admin :-



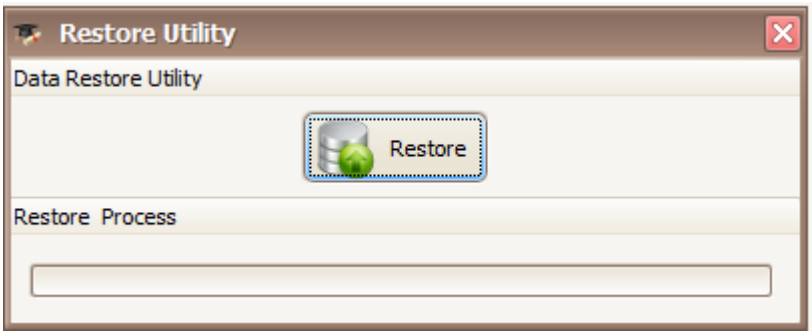

User Log For Admin :-



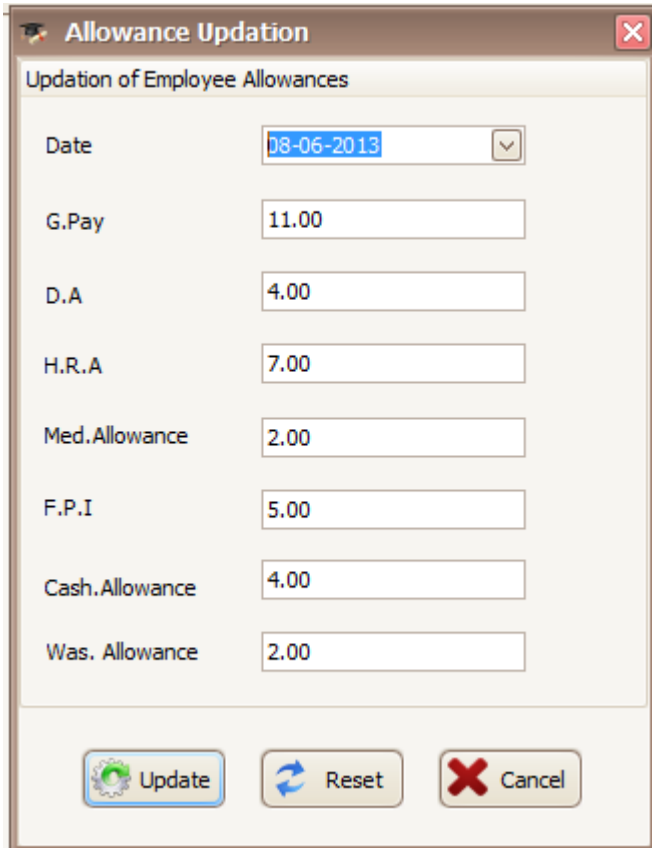

Database Backup :-



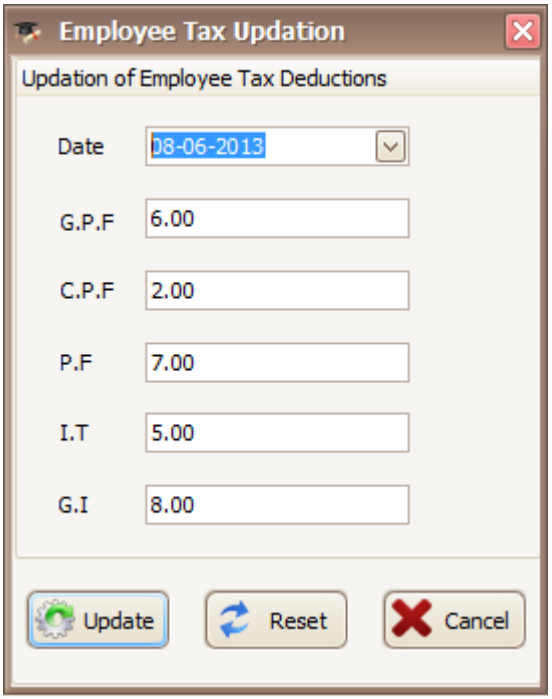

Database Restore :-




Allowance Rate updating System :-




Tax Rate Updating System :-




Reports:-

Student Profile:-

# School Management System

## Student Admission Report

### Student Profile

**Name :-** **chetan** **j** **khatri**

| | |
|---|---|
| **GR No** | 1 |
| **Student ID** | 2 |
| **First Name** | chetan |
| **Last Name** | khatri |
| **Admission Date** | 11-04-2013 |
| **Address** | bhuj |
| **Date Of Birth** | 10-04-2013 |
| **Gender** | Male |
| **Standard** | 10 |
| **Category** | S.C |
| **Contact No** | 8460316817 |
| **E-mail ID** | ckhatrimanjal@gmail.com |

Student General Register :-

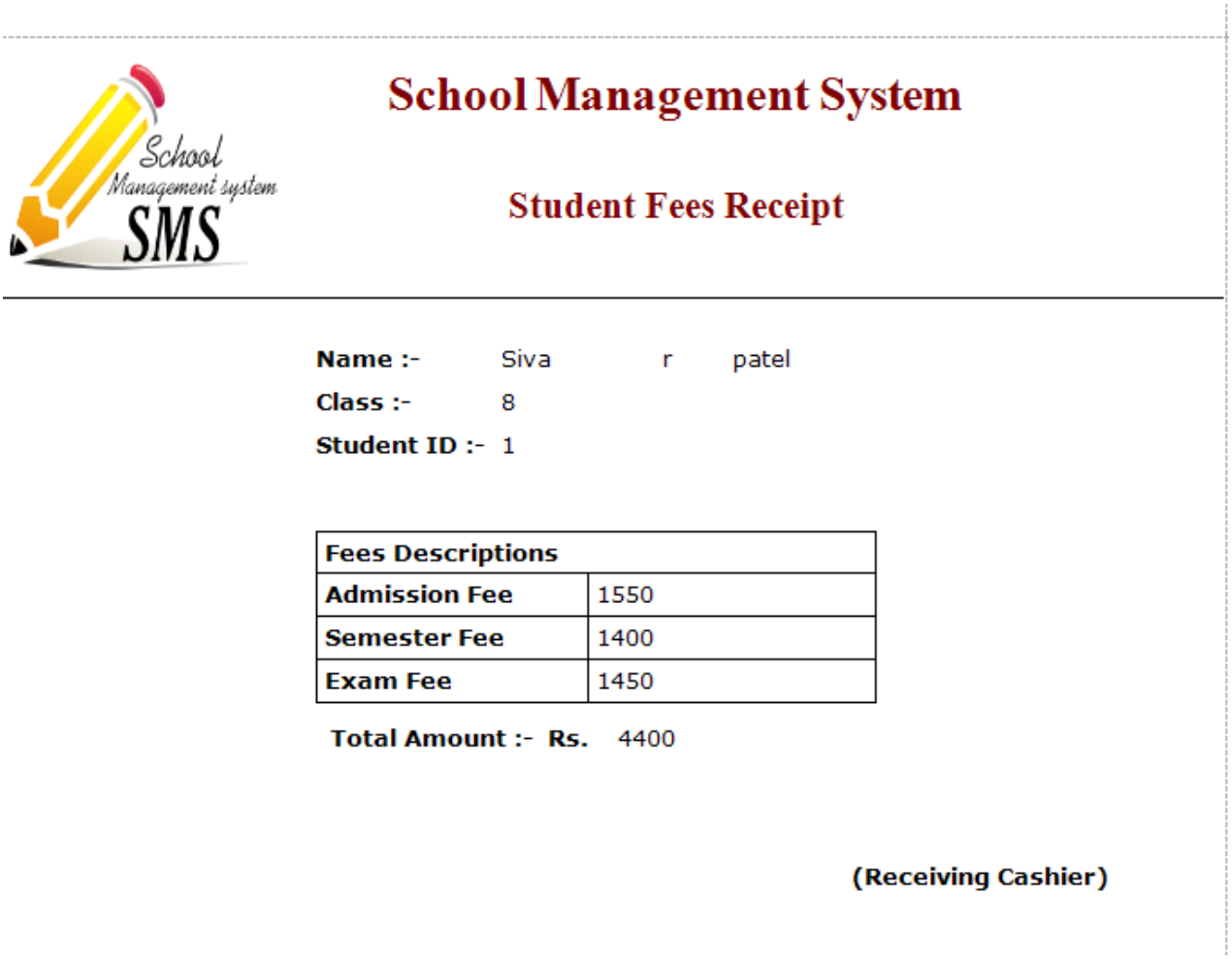
## School Management System

### Student General Register

| GR No | Year | First Name | Last Name | Address | From | DOB | Gender | Category | Caste | Photo |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2013 | chetan | khatri | bhuj | Village | 10-04-2013 | Male | S.C | hindu | |
| 2 | 2013 | mayur | khatri | manjal | City | 10-04-2013 | Male | S.C | hindu | |
| 3 | 2013 | adom | grilcrist | australia | Village | 10-04-2013 | Male | S.C | criston | |

24 April 2013 Report Generated By :- admin Page 1 of 3

Student Fees Receipt :-



School Management System

Student Fees Receipt

**Name :-** Siva r patel

**Class :-** 8

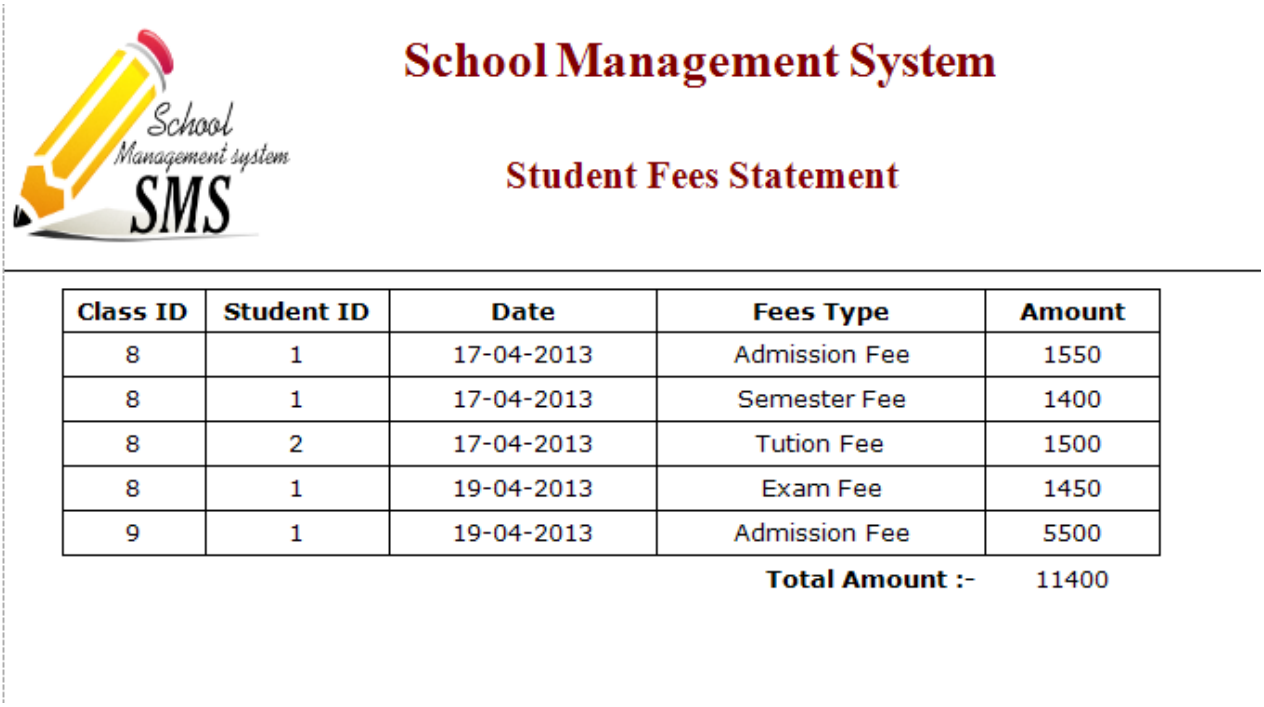
**Student ID :-** 1

| Fees Descriptions | |
|---|---|
| **Admission Fee** | 1550 |
| **Semester Fee** | 1400 |
| **Exam Fee** | 1450 |

**Total Amount :- Rs.** 4400

**(Receiving Cashier)**

Student Fees Statement:-



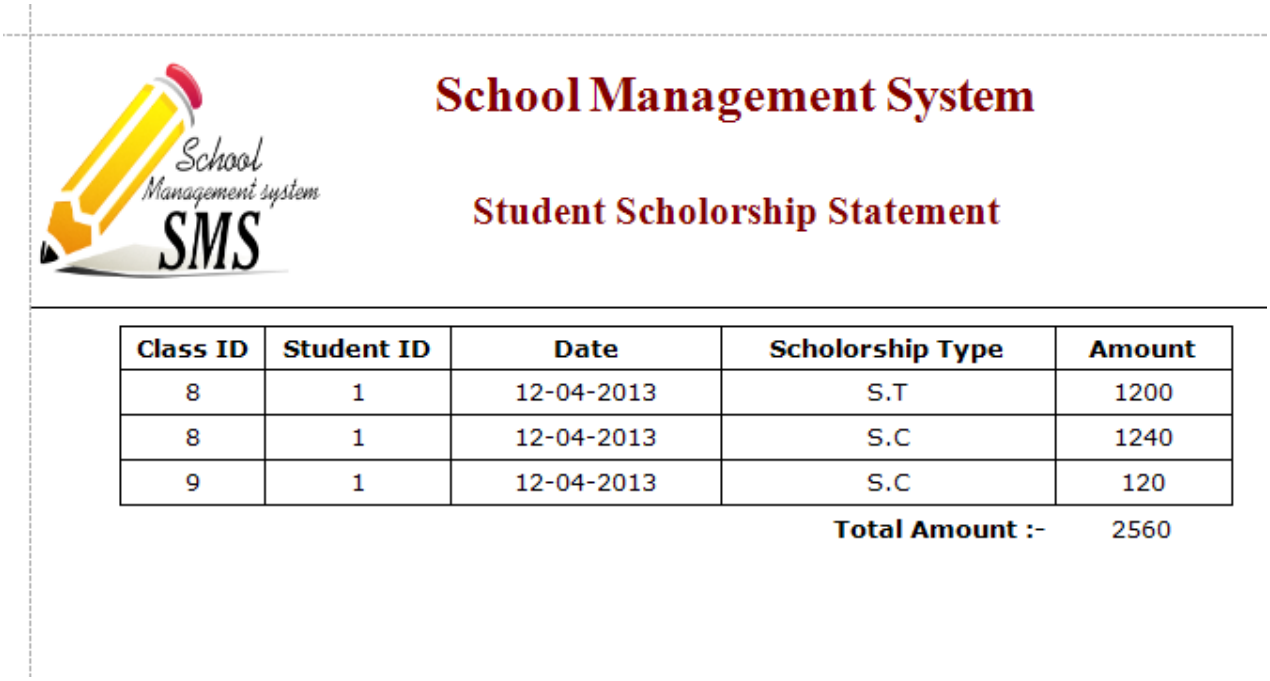
School Management System

Student Fees Statement

| Class ID | Student ID | Date | Fees Type | Amount |
|---|---|---|---|---|
| 8 | 1 | 17-04-2013 | Admission Fee | 1550 |
| 8 | 1 | 17-04-2013 | Semester Fee | 1400 |
| 8 | 2 | 17-04-2013 | Tution Fee | 1500 |
| 8 | 1 | 19-04-2013 | Exam Fee | 1450 |
| 9 | 1 | 19-04-2013 | Admission Fee | 5500 |

**Total Amount :-** 11400

Scholorship Statement:-

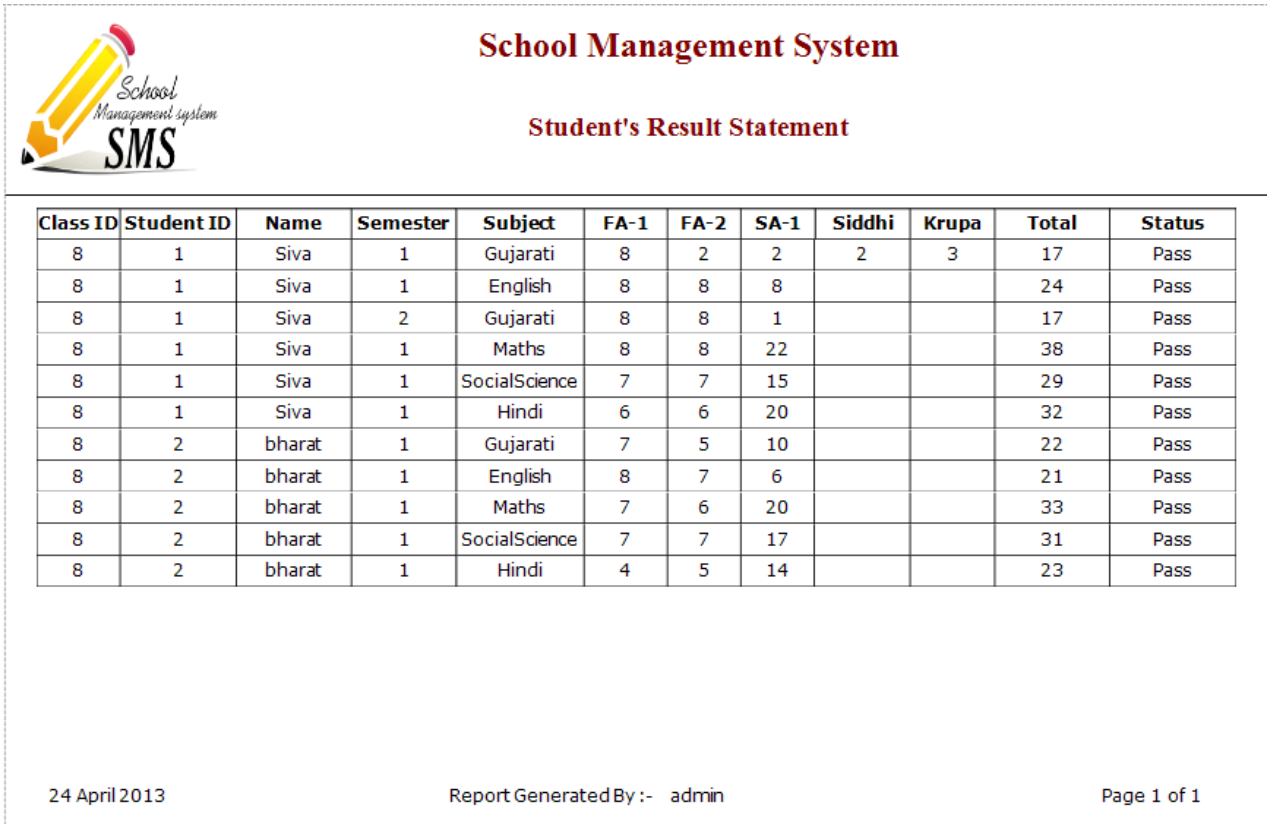


School Management System

Student Scholorship Statement

| Class ID | Student ID | Date | Scholorship Type | Amount |
|---|---|---|---|---|
| 8 | 1 | 12-04-2013 | S.T | 1200 |
| 8 | 1 | 12-04-2013 | S.C | 1240 |
| 9 | 1 | 12-04-2013 | S.C | 120 |
| | | | **Total Amount :-** | 2560 |

Student Result Statement :-



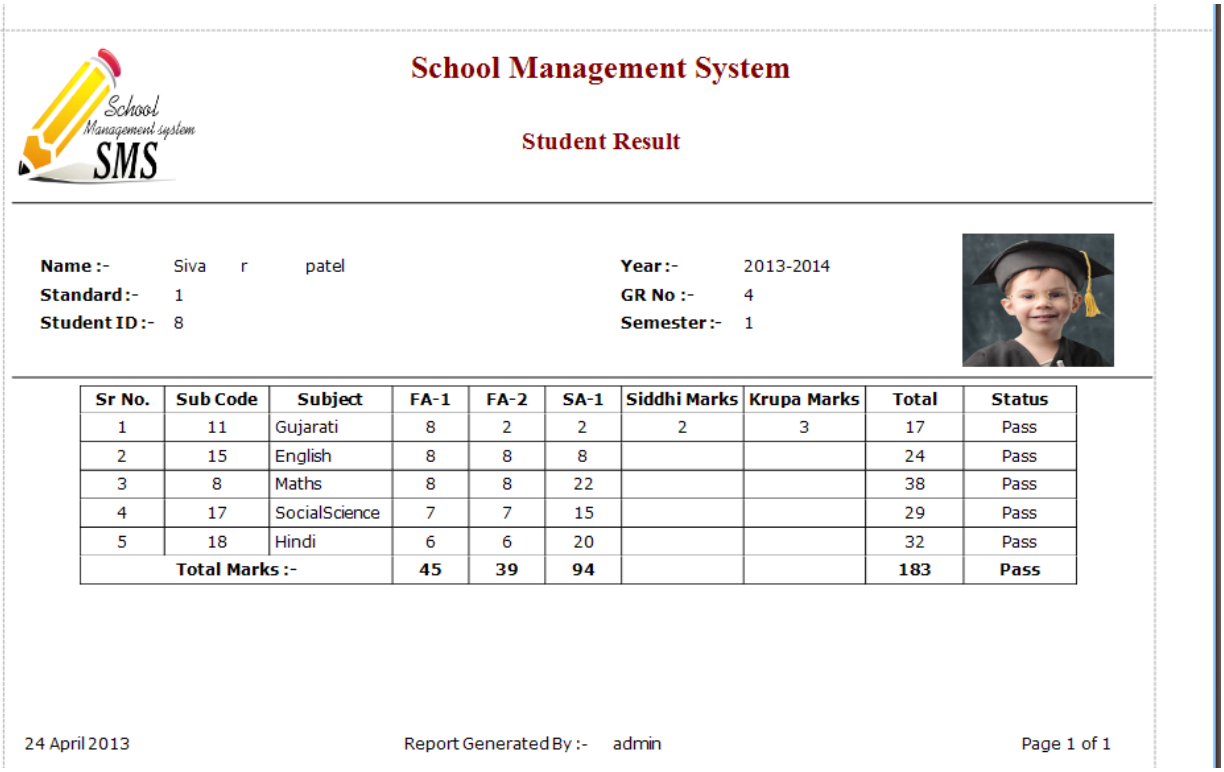
School Management System

Student's Result Statement

| Class ID | Student ID | Name | Semester | Subject | FA-1 | FA-2 | SA-1 | Siddhi | Krupa | Total | Status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 1 | Siva | 1 | Gujarati | 8 | 2 | 2 | 2 | 3 | 17 | Pass |
| 8 | 1 | Siva | 1 | English | 8 | 8 | 8 | | | 24 | Pass |
| 8 | 1 | Siva | 2 | Gujarati | 8 | 8 | 1 | | | 17 | Pass |
| 8 | 1 | Siva | 1 | Maths | 8 | 8 | 22 | | | 38 | Pass |
| 8 | 1 | Siva | 1 | SocialScience | 7 | 7 | 15 | | | 29 | Pass |
| 8 | 1 | Siva | 1 | Hindi | 6 | 6 | 20 | | | 32 | Pass |
| 8 | 2 | bharat | 1 | Gujarati | 7 | 5 | 10 | | | 22 | Pass |
| 8 | 2 | bharat | 1 | English | 8 | 7 | 6 | | | 21 | Pass |
| 8 | 2 | bharat | 1 | Maths | 7 | 6 | 20 | | | 33 | Pass |
| 8 | 2 | bharat | 1 | SocialScience | 7 | 7 | 17 | | | 31 | Pass |
| 8 | 2 | bharat | 1 | Hindi | 4 | 5 | 14 | | | 23 | Pass |

24 April 2013 Report Generated By :- admin Page 1 of 1

Student Result (Mark-Sheet):-



School Management System

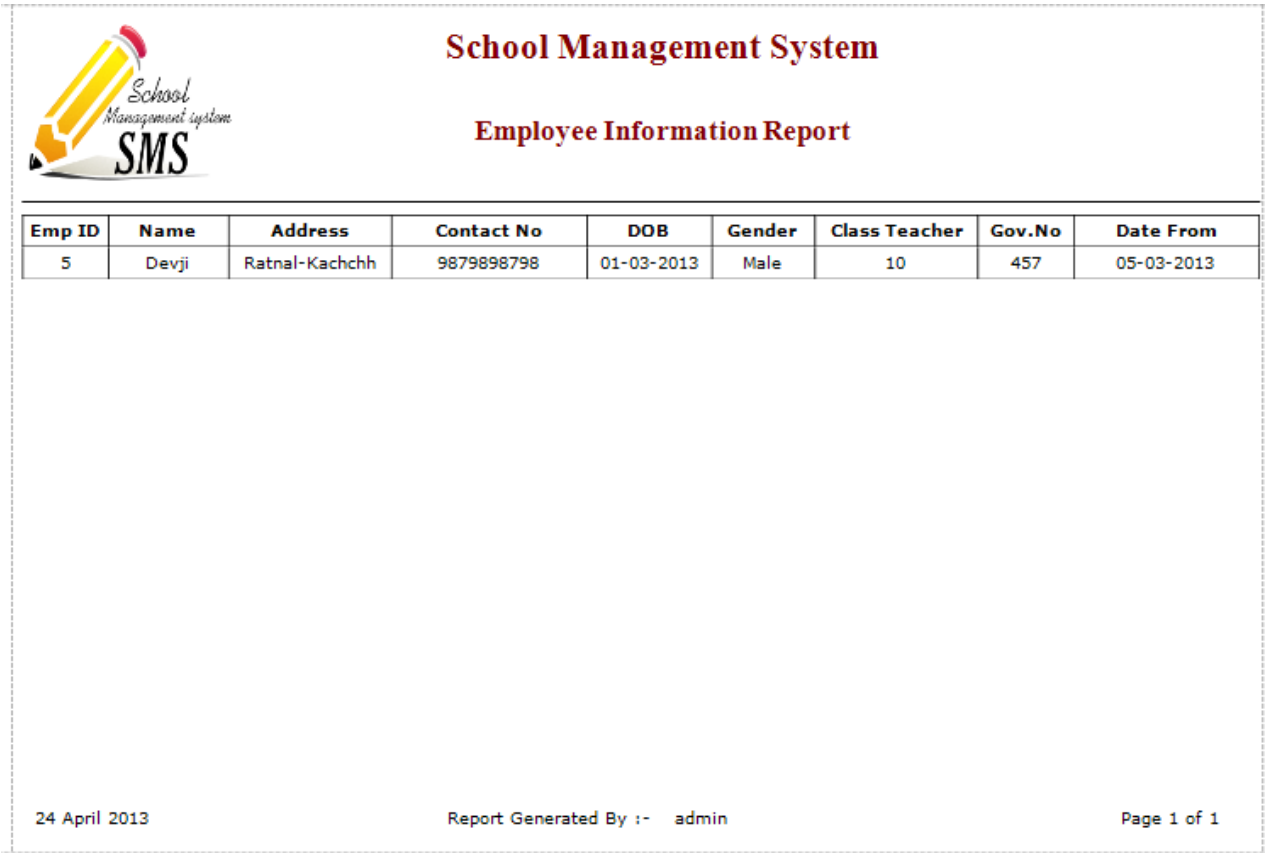
Student Result

**Name :-** Siva r patel
**Standard :-** 1
**Student ID :-** 8
**Year :-** 2013-2014
**GR No :-** 4
**Semester :-** 1

| Sr No. | Sub Code | Subject | FA-1 | FA-2 | SA-1 | Siddhi Marks | Krupa Marks | Total | Status |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11 | Gujarati | 8 | 2 | 2 | 2 | 3 | 17 | Pass |
| 2 | 15 | English | 8 | 8 | 8 | | | 24 | Pass |
| 3 | 8 | Maths | 8 | 8 | 22 | | | 38 | Pass |
| 4 | 17 | SocialScience | 7 | 7 | 15 | | | 29 | Pass |
| 5 | 18 | Hindi | 6 | 6 | 20 | | | 32 | Pass |
| **Total Marks :-** | | | **45** | **39** | **94** | | | **183** | **Pass** |

24 April 2013 Report Generated By :- admin Page 1 of 1

Employee information:-



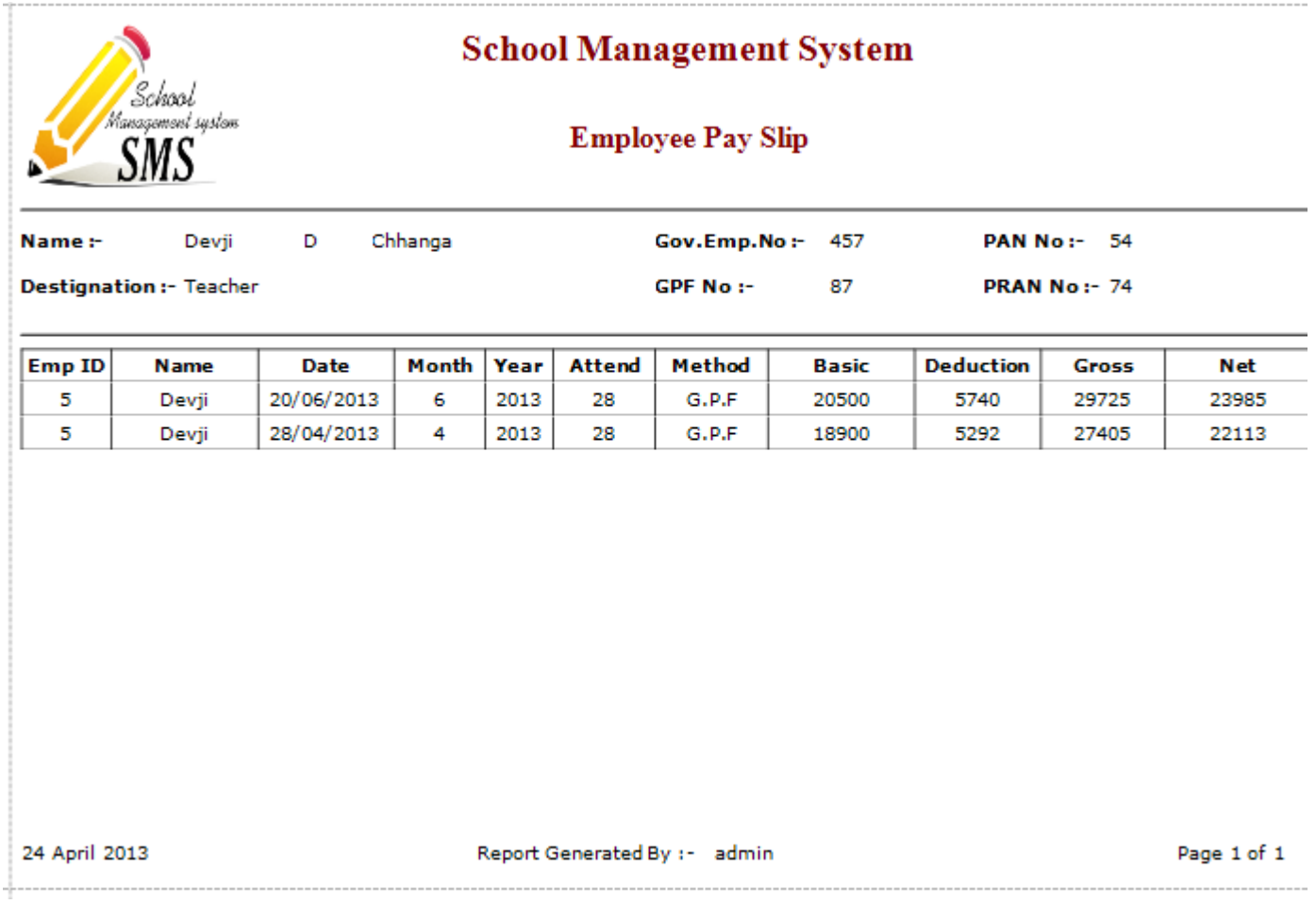
School Management System

Employee Information Report

| Emp ID | Name | Address | Contact No | DOB | Gender | Class Teacher | Gov.No | Date From |
|---|---|---|---|---|---|---|---|---|
| 5 | Devji | Ratnal-Kachchh | 9879898798 | 01-03-2013 | Male | 10 | 457 | 05-03-2013 |

24 April 2013 Report Generated By :- admin Page 1 of 1

Employee Pay Slip :-



School Management System

Employee Pay Slip

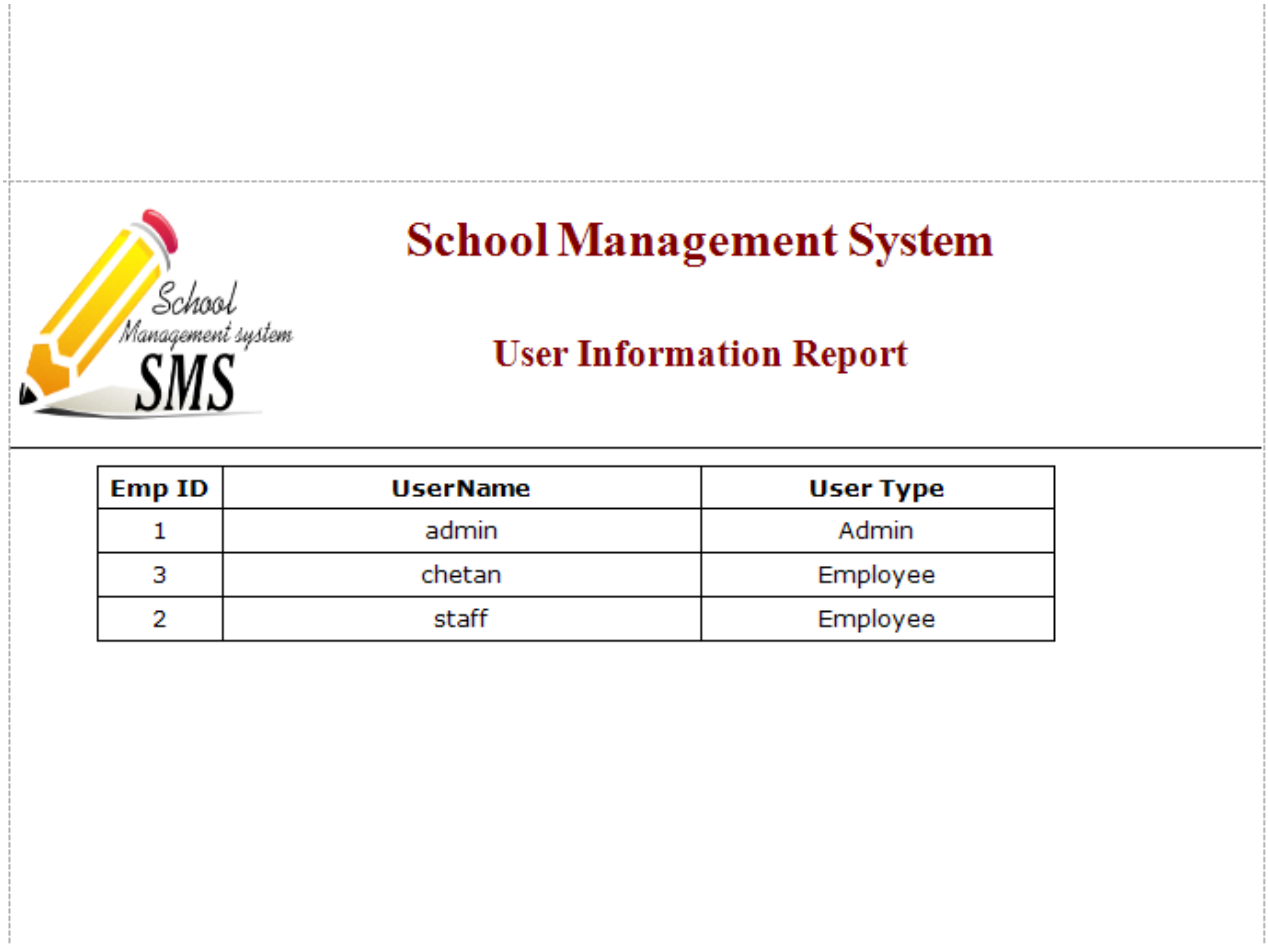
**Name :-** Devji D Chhanga **Gov.Emp.No :-** 457 **PAN No :-** 54

**Destination :-** Teacher **GPF No :-** 87 **PRAN No :-** 74

| Emp ID | Name | Date | Month | Year | Attend | Method | Basic | Deduction | Gross | Net |
|---|---|---|---|---|---|---|---|---|---|---|
| 5 | Devji | 20/06/2013 | 6 | 2013 | 28 | G.P.F | 20500 | 5740 | 29725 | 23985 |
| 5 | Devji | 28/04/2013 | 4 | 2013 | 28 | G.P.F | 18900 | 5292 | 27405 | 22113 |

24 April 2013 Report Generated By :- admin Page 1 of 1

User Information:-



School Management System

User Information Report

| Emp ID | UserName | User Type |
|---|---|---|
| 1 | admin | Admin |
| 3 | chetan | Employee |
| 2 | staff | Employee |

System Log Information :-

# School Management System

## User Information Report

| Log ID | UserName | Date | Time |
|---|---|---|---|
| 1 | admin | 07-03-2013 | 08:45:14 |
| 2 | chetan | 07-03-2013 | 08:47:29 |
| 3 | chetan | 07-03-2013 | 08:48:00 |
| 4 | admin | 07-03-2013 | 08:48:18 |
| 5 | chetan | 07-03-2013 | 08:54:25 |
| 6 | admin | 07-03-2013 | 09:04:21 |
| 7 | admin | 07-03-2013 | 15:25:41 |
| 8 | admin | 07-03-2013 | 15:30:31 |
| 9 | admin | 07-03-2013 | 15:36:55 |
| 10 | admin | 07-03-2013 | 15:45:01 |
| 11 | admin | 07-03-2013 | 15:46:20 |
| 12 | admin | 07-03-2013 | 15:47:32 |
| 13 | admin | 07-03-2013 | 22:52:34 |
| 14 | admin | 07-03-2013 | 22:54:33 |
| 15 | admin | 07-03-2013 | 22:56:08 |
| 16 | admin | 07-03-2013 | 23:24:58 |
| 17 | admin | 07-03-2013 | 23:28:53 |

## Bibliography

**Websites:-**

WWW.Dev-Express.com

www.Dev-tvtutorial.com

**Thank you**