

STUDENT MANAGEMENT SYSTEM AN EXTENSION TO HMIS

Developed At:



TATA CONSULTANCY SERVICES

Developed By:

Raja Biswas (IT-07)

Student ID: ST03IT070016

Project ID: 32

Internal Guide:

Mr. Rahul Joshi

Mr. Devendra Thakur

External Guide:

Mr. Dhaval Patel

(BA, TCS - Gandhinagar)

INTRODUCTION

- Definition:
 - A Student Management System (SMS) for HMIS is a system that manages the records of student regarding admission and examination part.
- SMS involves
 - Manage fees structure
 - Roll number generation
 - Fees payment
 - Admission seat management
 - Exam scheduling
 - Result management
 - Manage new admission



MOTIVATION

- To meet a solution to manage dental students' records across hospitals of Govt. of Gujarat for Hospital Management Information System in 30 districts.
- To overcome existing problems occurring in maintenance of students' information



OBJECTIVES

- To manage students' information during admission and examination.
- Efficient utilization of human resource.
- To reduce unnecessary paper work in maintaining students' information.

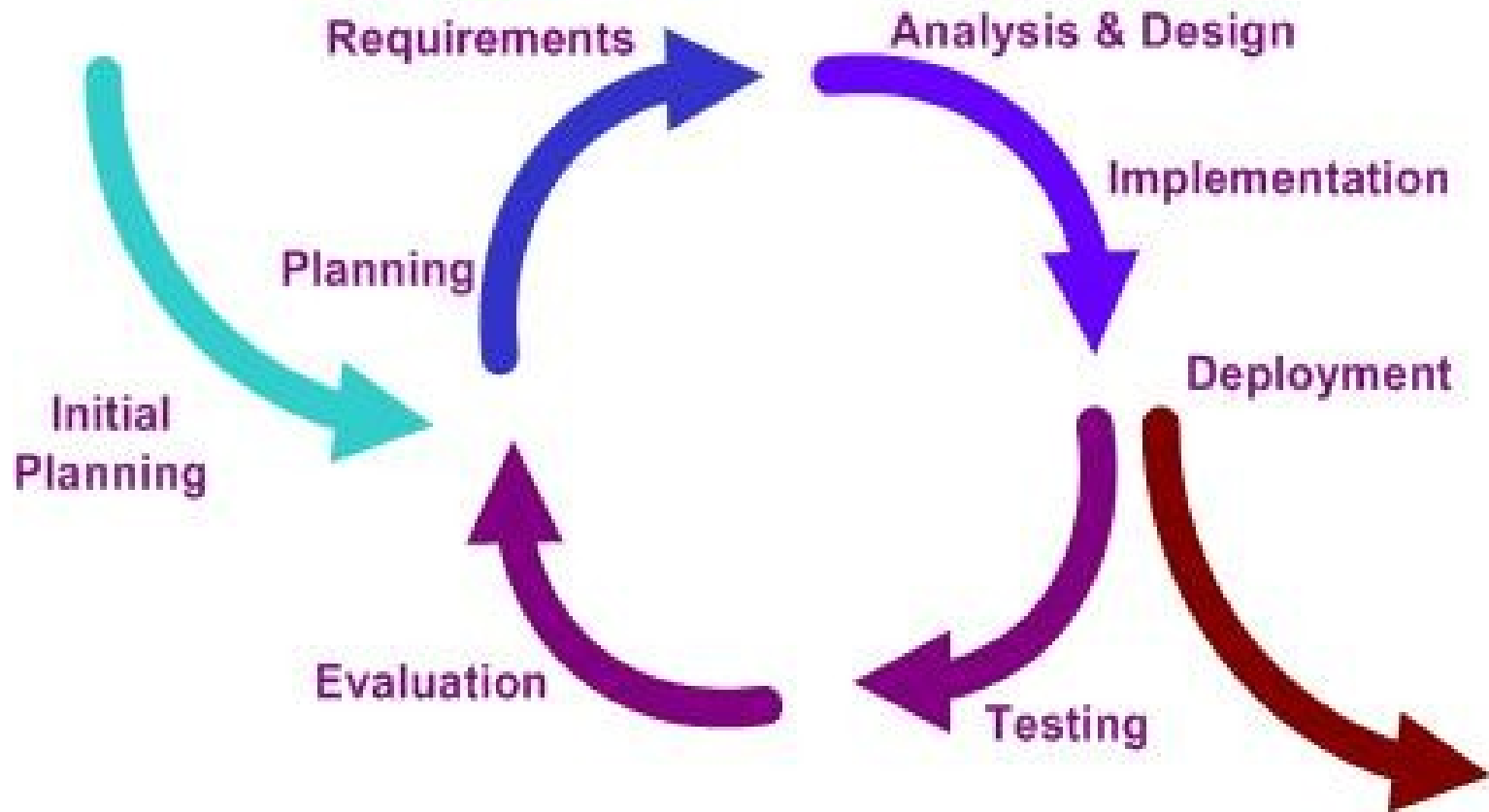


APPLICATIONS

- To use for various streams' students.
- To gather students' information.
- Different reports and Queries can be generated based of vast options related to students, batch, course, quota, semesters and category and even for the entire college.



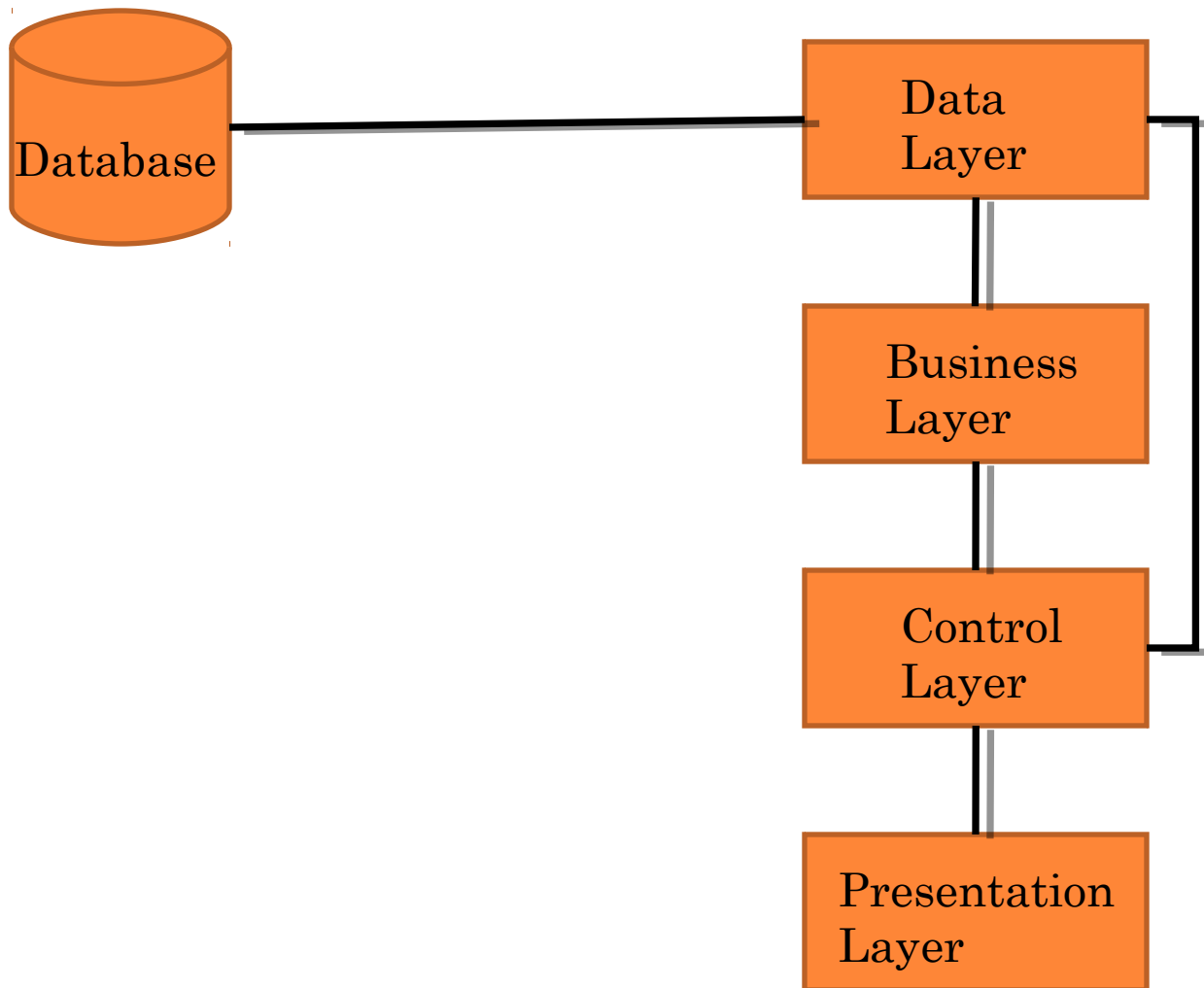
METHODOLOGY



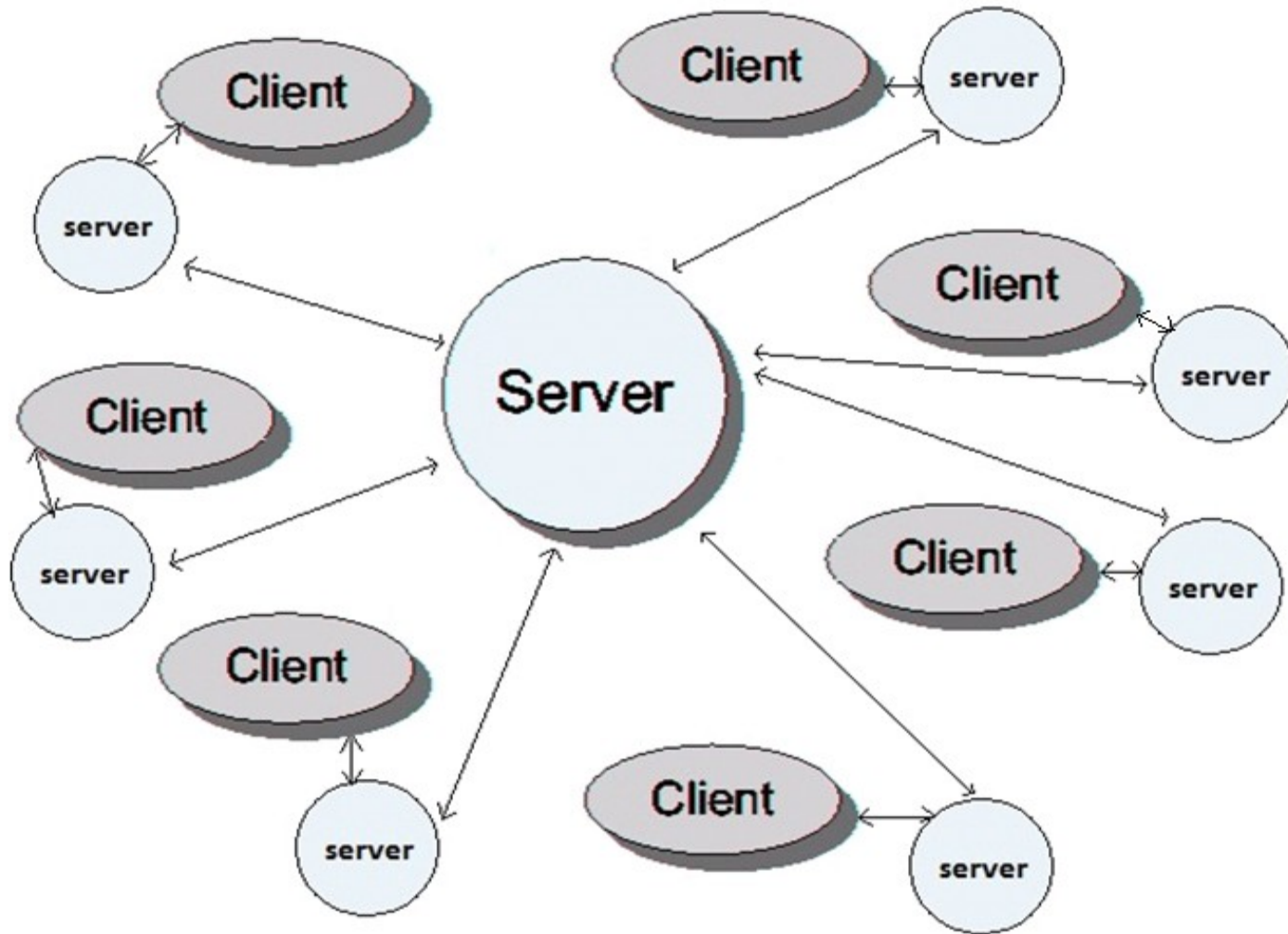
Iterative and Incremental Life Cycle



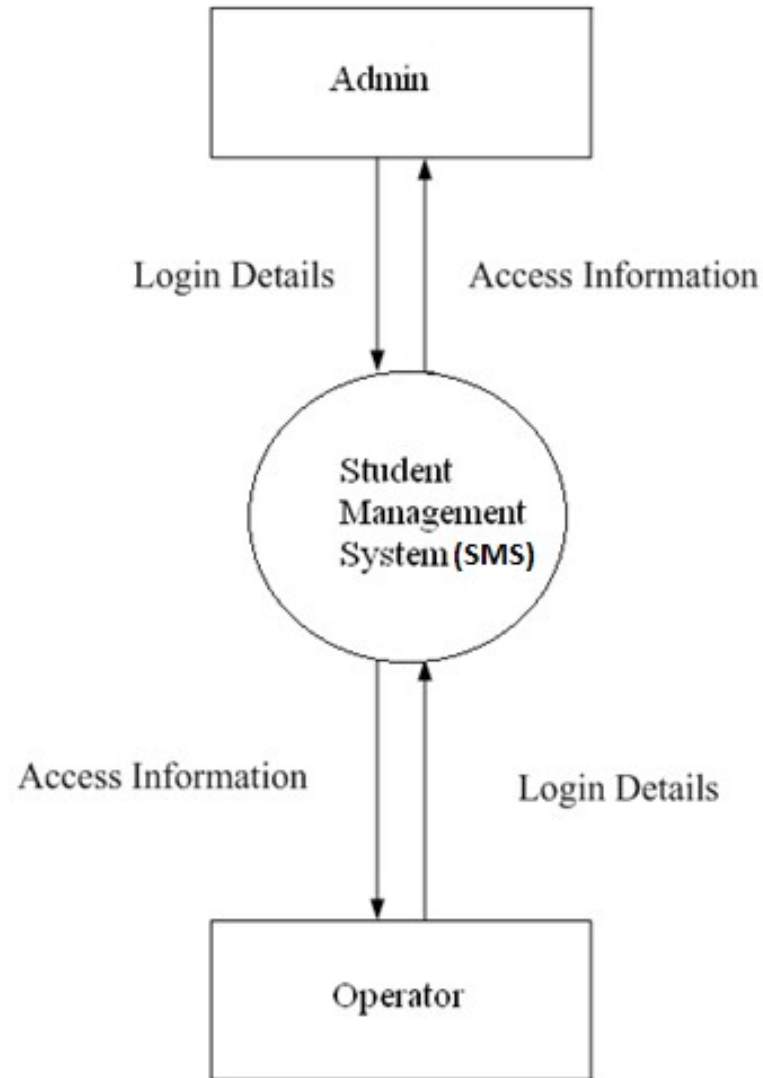
ARCHITECTURE OF SMS



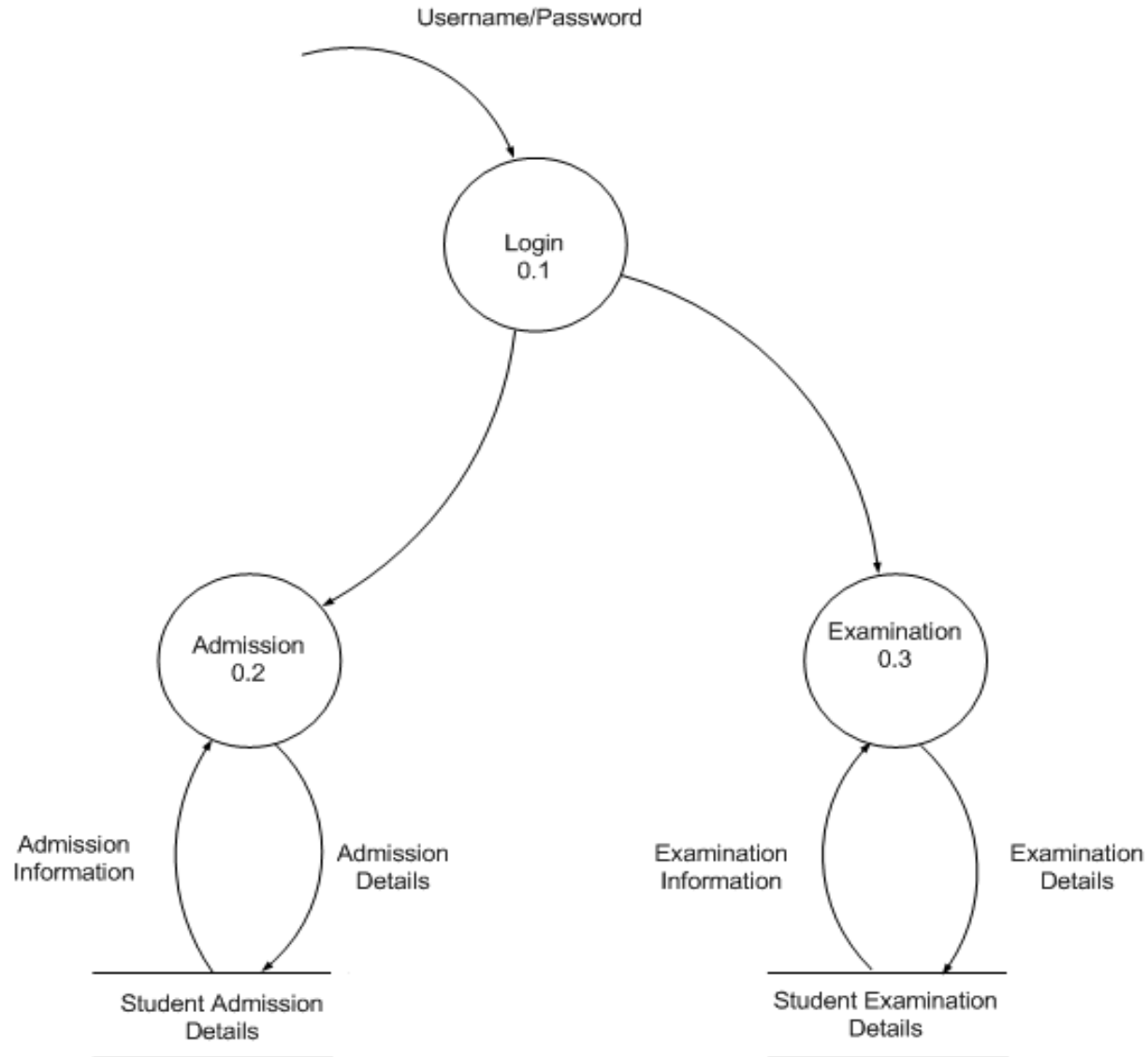
ARCHITECTURE OF SMS..



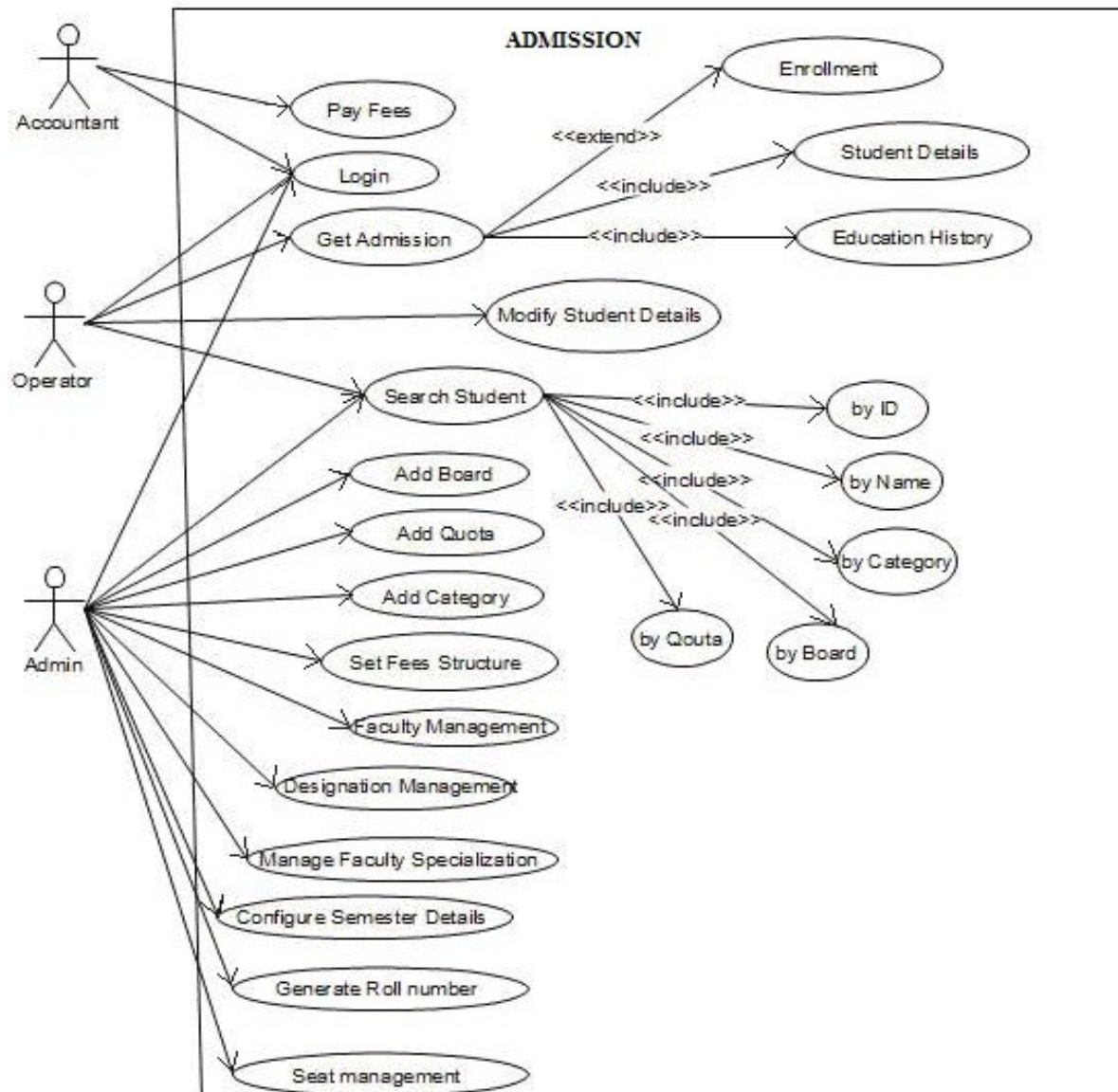
CONTEXT DIAGRAM OF SMS



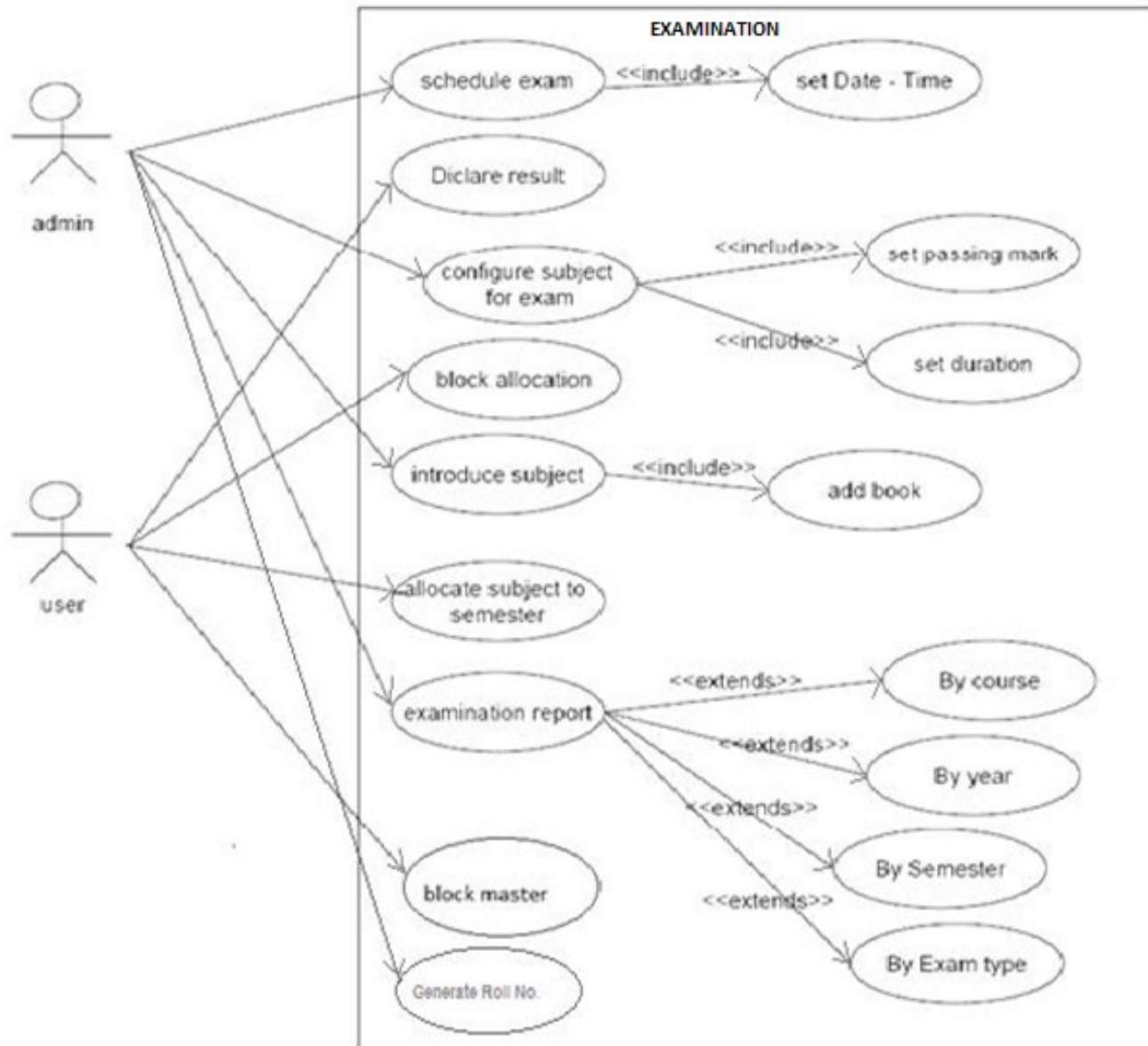
LEVEL-1 DATA FLOW DIAGRAM OF SMS



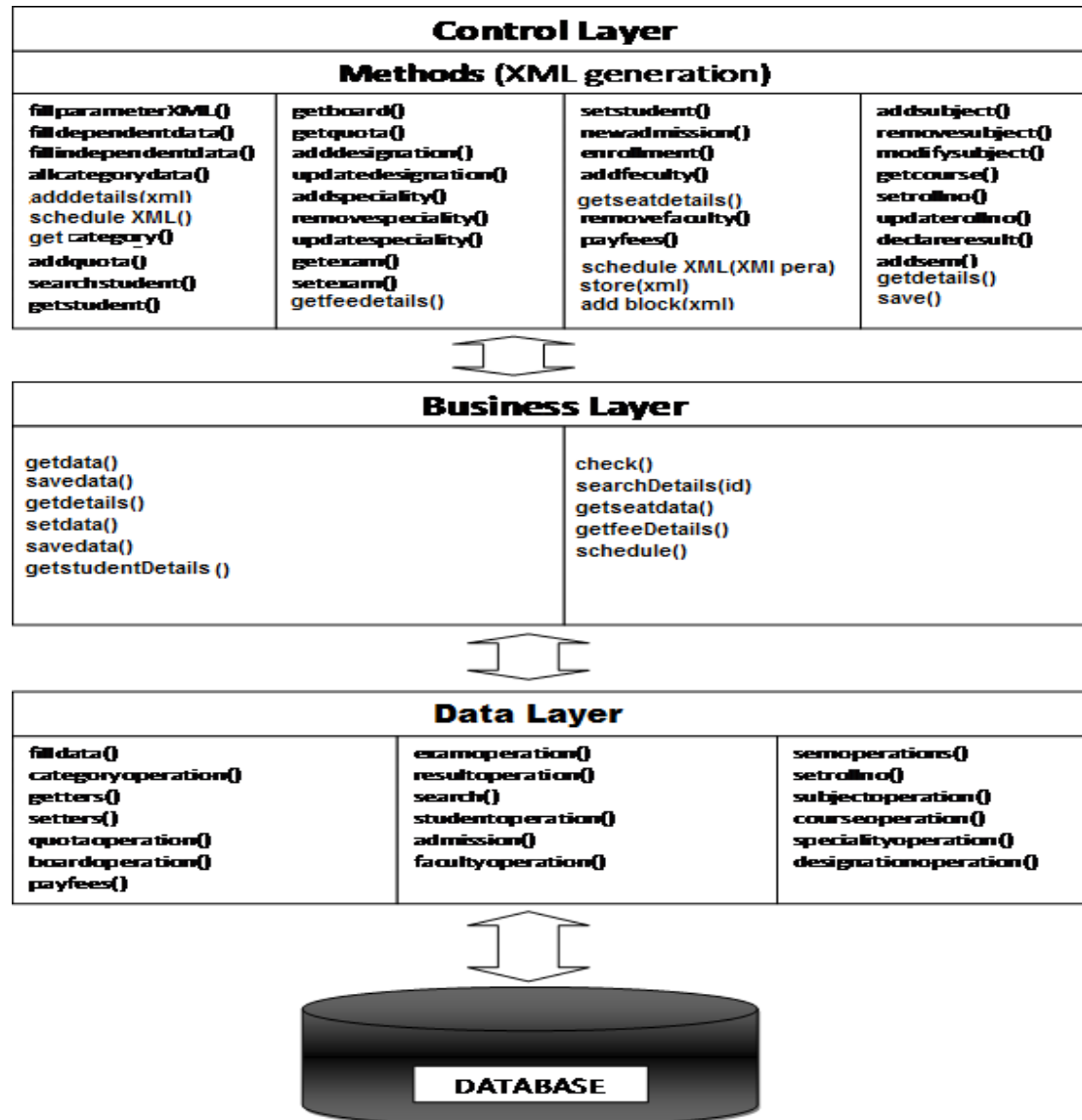
USE CASE DIAGRAM OF ADMISSION MODULE



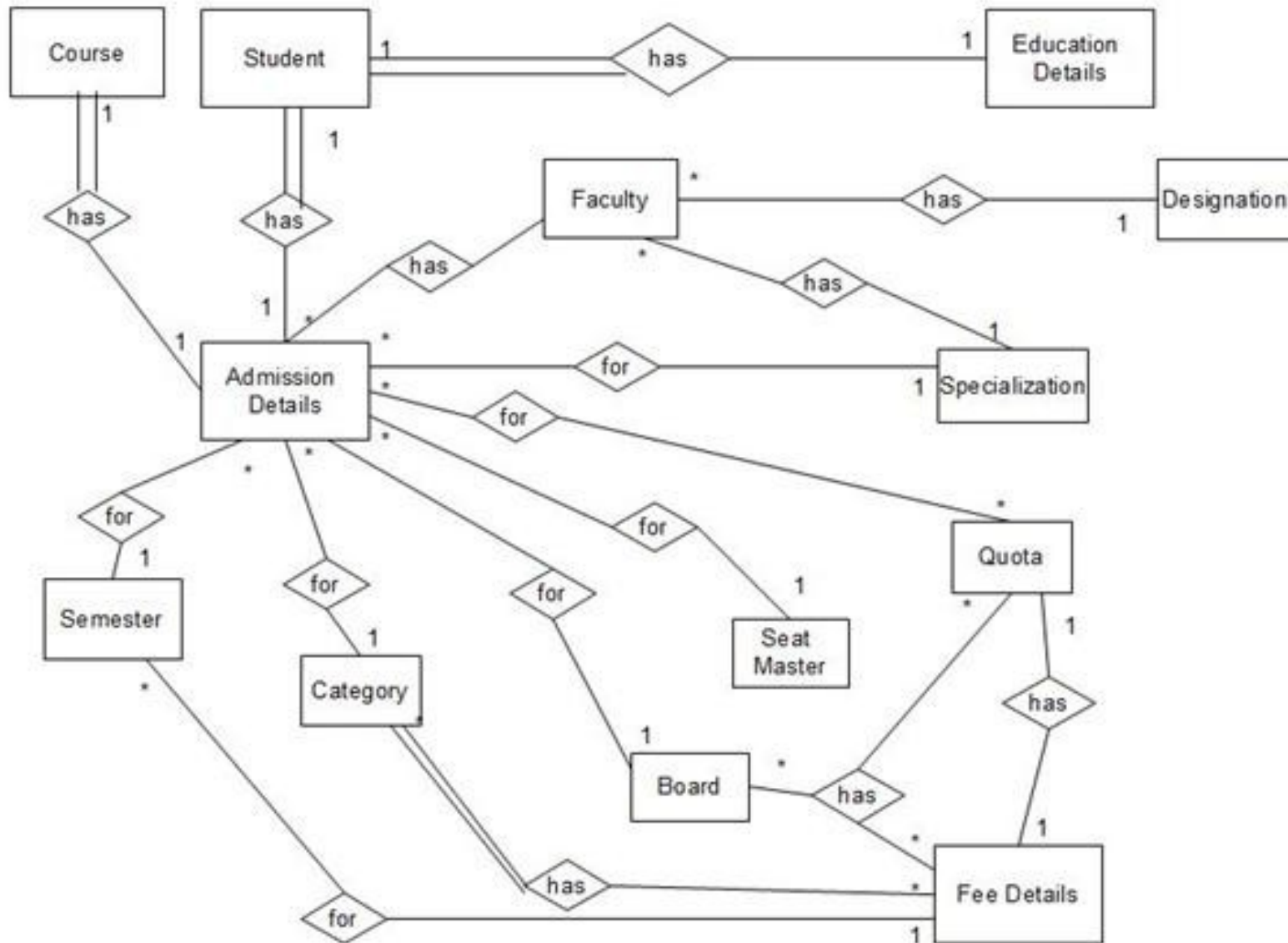
USE CASE DIAGRAM OF EXAMINATION MODULE



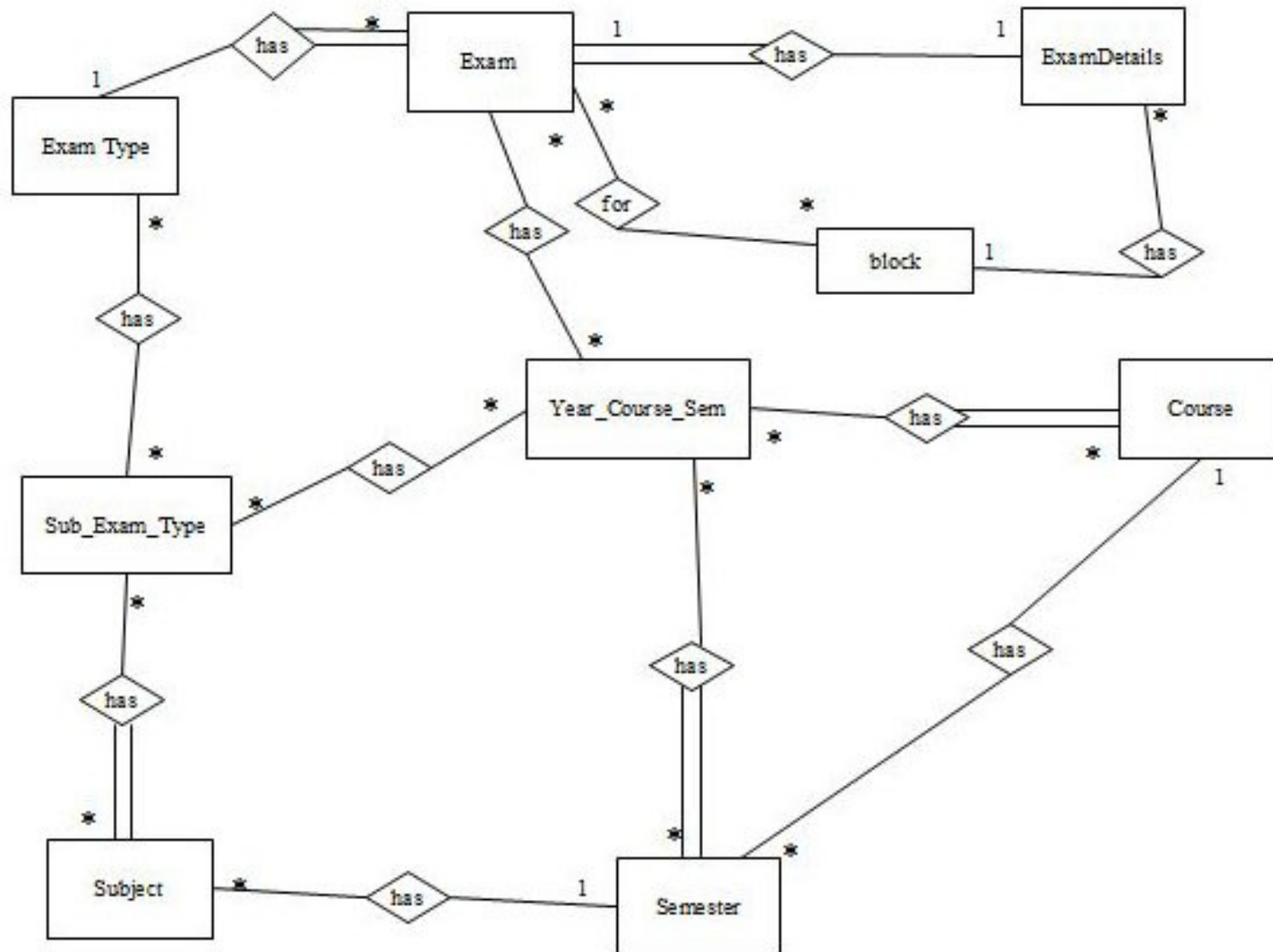
CLASS DIAGRAM



E-R DIAGRAM OF ADMISSION MODULE



E-R DIAGRAM OF EXAMINATION MODULE



SCREEN SHOT SHOWING LOGIN SCREEN

Hospital Management System - 1.0.0 - Microsoft Internet Explorer provided by TATA CONSULTANCY SERVICES

Latest Notices

 **Health & Family Welfare Department**
HMIS
Government of Gujarat

User Id:
Password:
Location:

Birth Day Alarm

 **6 April:** **Lalitkumar Takht**
Sinh Dabhi [Cardiology
Department]

 **7 April:** **Bhanumati Manher**
Rla Jayaswal [Emergency OPD]

 **8 April:** **Ashvinbhai Manjibh**
[Emergency OPD]

Release Note
Medical Journals

Developed & Maintained By
TATA
TATA CONSULTANCY SERVICES

Local intranet

Start | SMS - Microsoft ... | SQL Server Profi... | Microsoft SQL S... | InvestigationFra... | how to check ra... | Start Page - Micr... | Hospital Mana... | ScreenShots | untitled - Paint | 9:26 AM

SCREEN SHOT SHOWING PAGE DETAILS

The screenshot displays the Hospital Management System (HMS) interface within a Microsoft Internet Explorer browser window. The browser title bar reads "Hospital Management System - 1.0.0 - Microsoft Internet Explorer provided by TATA CONSULTANCY SERVICES". The application header shows a welcome message: "Welcome ADMINISTRATOR USER(Dental Oral Diagnosis) at Dental Hospital, Ahmedabad" and the last login time: "Last Login : 18 Apr 2011 16:09:53".

The interface features a left-hand navigation menu with the following sections:

- Admission** (indicated by a green circle icon):
 - New Admission
 - Payment Screen
 - Fees Master
 - Semester Master Screen
 - Category Master
 - Speciality Master
 - Seat Master
- Examination** (indicated by a green circle icon):
 - Subject Exam Mark Master
 - Exam Scheduling Master
 - Result Entry Screen
 - Subject Allocation Master
 - Exam Type Master
 - Subject Master
- Reports** (indicated by a green circle icon):
 - Student Reports
 - Result Reports

Callouts identify the following elements:

- Module Name**: Points to the "Admission" section header in the navigation menu.
- List of Screen**: Points to the "Seat Master" item under the "Admission" section.
- To Change Theme**: Points to the "Green" theme selector dropdown in the top right header.
- Logout**: Points to the "Logout" icon in the top right header.
- Screen Name**: Points to the "Screen Name" label in the bottom status bar.
- Mode of the Screen**: Points to the "Mode of the Screen" label in the bottom status bar.

The bottom status bar also includes a "Done" button on the left and a "Local intranet" indicator on the right.

SCREEN SHOT SHOWING NEW ADMISSION SCREEN

Hospital Management System - 1.0.0 - Microsoft Internet Explorer provided by TATA CONSULTANCY SERVICES

Welcome ADMINISTRATOR USER(Dental Oral Diagnosis) at Dental Hospital, Ahmedabad
Last Login : 13 Apr 2011 17:42:31

Green 13/04/2011

PERSONAL DETAILS

Student ID

Full Name Year

Sex Father's Income Birth Date

Caste Sub Caste

CONTACT DETAILS

Address Line1

Address Line2

City PinCode

State Nation

Phone No Mobile No

Email Id1 Email Id2

ADMISSION DETAILS

☒ BDS ☐ MDS Date

Fresher General Merit No. Category Merit No.

Board Category Quota

Year Semester Hostel

EDUCATION DETAILS

	Discipline	Institute	Board	Percentage	Year of Completion	Award/Scholarship
<input type="checkbox"/>	12th	D.D Vidhayalay	Gujarat	88	2010	Best C median

Screen Name: NEW ADMISSION Mode: Add

Done Local intranet

SCREEN SHOT SHOWING FEES DETAILS

Hospital Management System - 1.0.0 - Microsoft Internet Explorer provided by TATA CONSULTANCY SERVICES

Welcome ADMINISTRATOR USER(Dental Oral Diagnosis) at Dental Hospital, Ahmedabad

Green 06/04/2011

Menu: Add, Modify, Save, Query, Fetch, Delete, Cancel

Fees Structure

Year: 2011

Board: Course:

Quota: Year:

Category: Semester:

Tution Fees:

Exam Fees:

Other Fees:

Hostel Fees:

Total Fees:

Detail List Of Fees Structure

COURSE	BOARD NAME	CATEGORY	YEAR OF STUDY	SEMESTER	TUTION FEES	EXAM FEES	OTHER FEES	HOSTEL FEES	TOTAL FEES
BDS	All India	SC	1	1	1200.00	1200.00	2100.00	500.00	5000.00
MDS	All India	OBC	1	2	100.00	100.00	110.00	110.00	420.00
BDS	All India	OBC	1	1	789890.00	7666.00	79.00	80.00	797715.00
BDS	State	ST	2	1	1500.00	500.00	550.00	550.00	3100.00
MDS	All India	OBC	2	1	65756.00	0.00	0.00	0.00	65756.00

1 2 3 4

Screen Name: FEES MASTER Mode : Cancel

Done Local intranet

Table showing
all details of
fees

Cancel
mode

SCREEN SHOT SHOWING SEMESTER MASTER VALIDATIONS

Hospital Management System - 1.0.0 - Microsoft Internet Explorer provided by TATA CONSULTANCY SERVICES

Welcome ADMINISTRATOR USER(Dental Oral Diagnosis) at Dental Hospital, Ahmedabad
Last Login : 06 Apr 2011 16:58:26

Default 06/04/2011

» M E N U

Add Modify Save Query Fetch Delete Cancel

Semester Structure

Year 2011

Course
Year of Study
Semester
Start Date
End Date

Detail List Of Semester Structure

Microsoft Internet Explorer

Please correct the following error(s):

- Select any one Course
- Select any one Year of Study
- Select any one Semester
- End Date is Blank
- Start Date is Blank

OK

Message box showing list of errors

Semester master screen name

Screen Name: SEMESTER MASTER SCREEN Mode : Add

SCREEN SHOT SHOWING SUBJECT ALLOCATION SCREEN

Hospital Management System - 1.0.0 - Microsoft Internet Explorer provided by TATA CONSULTANCY SERVICES

HMIS Welcome ADMINISTRATOR USER(Dental Oral Diagnosis) at Dental Hospital, Ahmedabad
Last Login : 08 Apr 2011 12:53:58

Green 11/04/2011

Add Modify **Save** Query Fetch Delete Cancel

Subject Allocation

Course Bachelor of Dental Sur Year Of Study 2 Semester 1 Year 2011

Subject Selection

List Of Availabic Subject

- 101 / General Human Anatomy
- 103 / Oral Pathology
- 105 / Conservative Dentistry
- 106 / Periodontology
- 107 / General Surgery
- 108 / Prosthodontics
- 114 / Dental Materials
- 115 / Dental Materials
- 144 / General Surgery
- 3453 / oio

Available subjects

List Of Subjects Added

- 102 / Dental Materials
- 104 / Orthodontics
- 109 / Public Health Dentistry
- 110 / Public Health Dentistry

Allocated subjects

Screen Name: SUBJECTALLOCATION MASTER Mode : Add

Done Local intranet

SCREEN SHOT SHOWING PAYMENT DETAILS

Hospital Management System - 1.0.0 - Microsoft Internet Explorer provided by TATA CONSULTANCY SERVICES


Welcome ADMINISTRATOR USER(Dental Oral Diagnosis) at Dental Hospital, Ahmedabad

Default 06/04/2011

MEIU

Add Modify Save Query Fetch Delete Cancel

Student Details

Student ID: GNRBDS20100002  LoV control to select student

Full Name: Aarti J. Jhala

Caste: hindu SubCaste:

Father's Income: 35.00 Hostel: yes

Semester Details

Year: 1 Semester: 1

Start Date: 18-02-2011 End Date: 25-03-2011

Fees Structure

Quota: Government

Tuition Fees: 789890.00 Other Fees: 79.00

Exam Fees: 7666.00 Hostel Fees: 80.00

Total Fees: 797715.00

Payment Details

☒ Cash ☐ Cheque ☐ DemandDraft

Bank Name:

Cheque No: Demad Draft No:

Screen Name: PAYMENT SCREEN Mode: Fetch

Fetch mode

Done Local intranet

SCREEN SHOT SHOWING EXAM SCHEDULING SCREEN

Hospital Management System - 1.0.0 - Microsoft Internet Explorer provided by TATA CONSULTANCY SERVICES

Welcome ADMINISTRATOR USER(Dental Oral Diagnosis) at Dental Hospital, Ahmedabad
Last Login : 15 Apr 2011 11:20:55

Green 18/04/2011

Menu

Add Modify **Save** Query Fetch Delete Cancel

Exam Scheduling

Year 2011

Course Bachelor of Dental Surgery (B) Year Of Study 1

Examination Type External Exam-1 Go

To remove selected rows

Exam Schedule

	Subject	Date Of Examination	Start Time	End Time
<input type="checkbox"/>	Oral Pathology	18/04/2011	10:00	13:00
<input type="checkbox"/>	Orthodontics	19/04/2011	10:00	13:00
<input type="checkbox"/>	Conservative Dentistry	20/04/2011	10:00	13:00
<input type="checkbox"/>	General Surgery	21/04/2011	10:00	13:00
<input type="checkbox"/>	Dental Materials	22/04/2011	10:00	13:00
<input type="checkbox"/>	Periodontology	23/04/2011	10:00	13:00
<input type="checkbox"/>	Prosthodontics	25/04/2011	10:00	13:00

Calendar control to add date and time

Screen Name: EXAM SCHEDULING MASTER Mode : Add

Done Local intranet

SCREEN SHOT SHOWING RESULT ENTRY SCREEN

Hospital Management System - 1.0.0 - Microsoft Internet Explorer provided by TATA CONSULTANCY SERVICES

Welcome ADMINISTRATOR USER(Dental Oral Diagnosis) at Dental Hospital, Ahmedabad

HMIS

Default

06/04/2011

» M E II U

Add Modify Save Query Fetch Delete Cancel

Subject Allocation

Year 2011

Course Bachelor of Dental Surgery (BDS) Year Of Study 2 Semester 1

ExamType External Exam-1 Subject General Human Anatomy

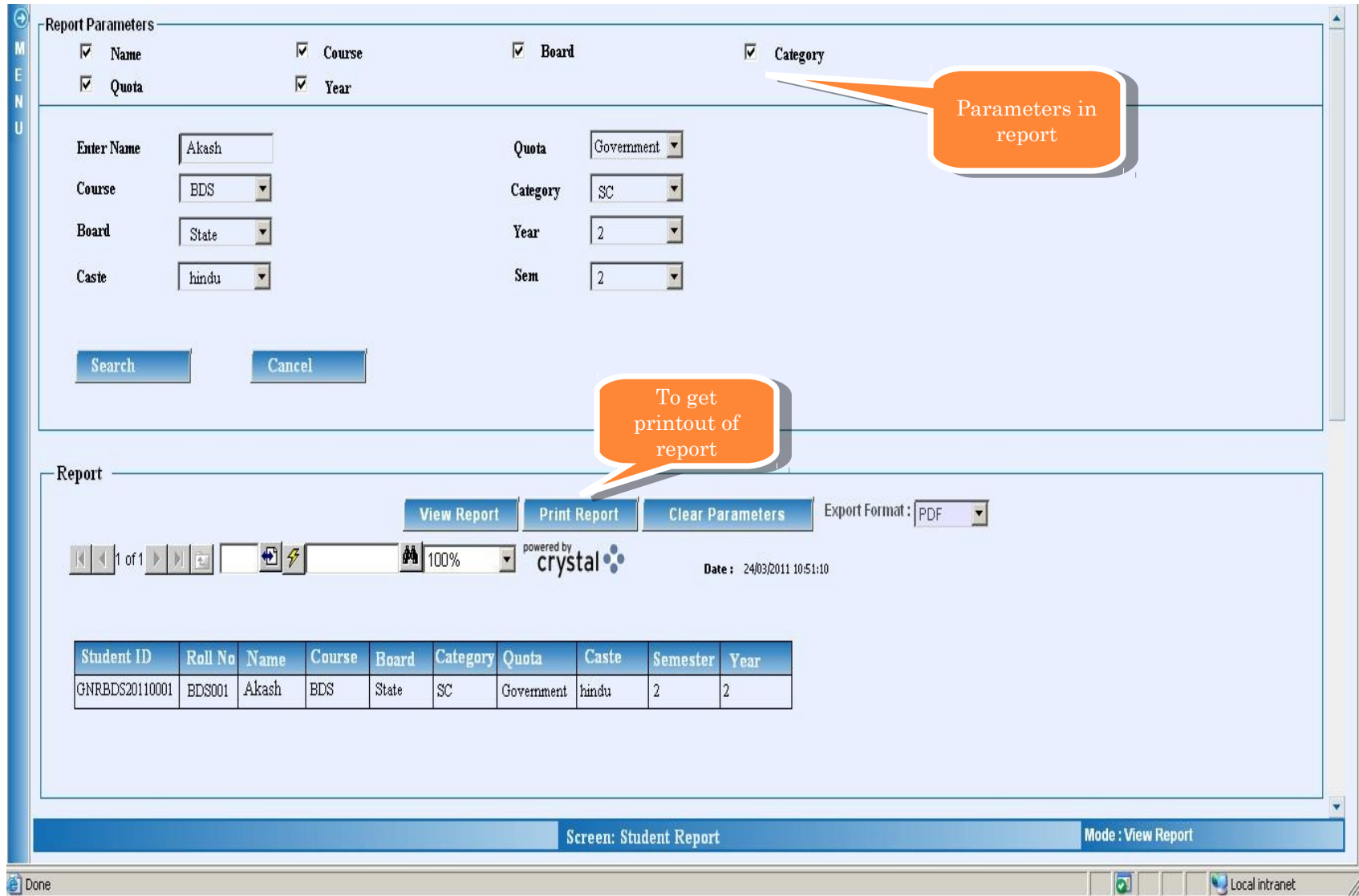
Result Generation

<input type="checkbox"/>	Roll No	Name	Marks	Pass/Fail
<input type="checkbox"/>	01	Aarti	98	Pass
<input type="checkbox"/>	02	Kajal	90	Pass
<input type="checkbox"/>	03	Neha	82	Pass
<input type="checkbox"/>	04	Rajat	75	Pass

List of students with their marks in particular subject

Screen Name: RESULT MASTER Mode : Fetch

SCREEN SHOT SHOWING STUDENT REPORT SCREEN



Report Parameters

☒ Name ☒ Course ☒ Board ☒ Category
☒ Quota ☒ Year

Enter Name: Quota:
Course: Category:
Board: Year:
Caste: Sem:

Report

 Export Format:

1 of 1 powered by crystal

Date: 24/03/2011 10:51:10

Student ID	Roll No	Name	Course	Board	Category	Quota	Caste	Semester	Year
GNRBDS20110001	BDS001	Akash	BDS	State	SC	Government	hindu	2	2

Screen: Student Report Mode: View Report

CONCLUSION

- helpful to perform paperless work and manage all data
- provides easy, accurate, unambiguous and faster data access.



FUTURE ENHANCEMENTS

- This Project can be implemented in more than two languages.
- Other Possible Modules
 - Academic
 - Attendance Management
 - Lab Management
 - Library
 - Hostel



BIBLIOGRAPHY

○ Websites

- <http://www.tcs.com>
- <http://www.msdn.microsoft.com>
- <http://www.codeguru.com>
- <http://www.1001tutorials.com>

○ Books

- Asp.net Professional 1.1 (Wrox Publication)
- Javascript In 21 Days
- VB.net Professional (Wrox Publication)
- Software Engineering - A Practitioner's Approach



