

BIRLA INSTITUTE OF TECHNOLOGY &
SCIENCE, PILANI

WORK-INTEGRATED LEARNING PROGRAMMES DIVISION

BITS-WIPRO Collaborative Programme

B Tech (Information Systems)_SIM Batch

Second Semester 2017-2018

Assignment

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**School
Admission
management
system**

By-

- | | |
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Problem definition:

- Today all the work at the time of admission of the student is done manually by ink and paper, which is very slow and consuming much efforts and time.
- It is required to design of a computerized automated student admission system, to speed up and make it easy to use a system.

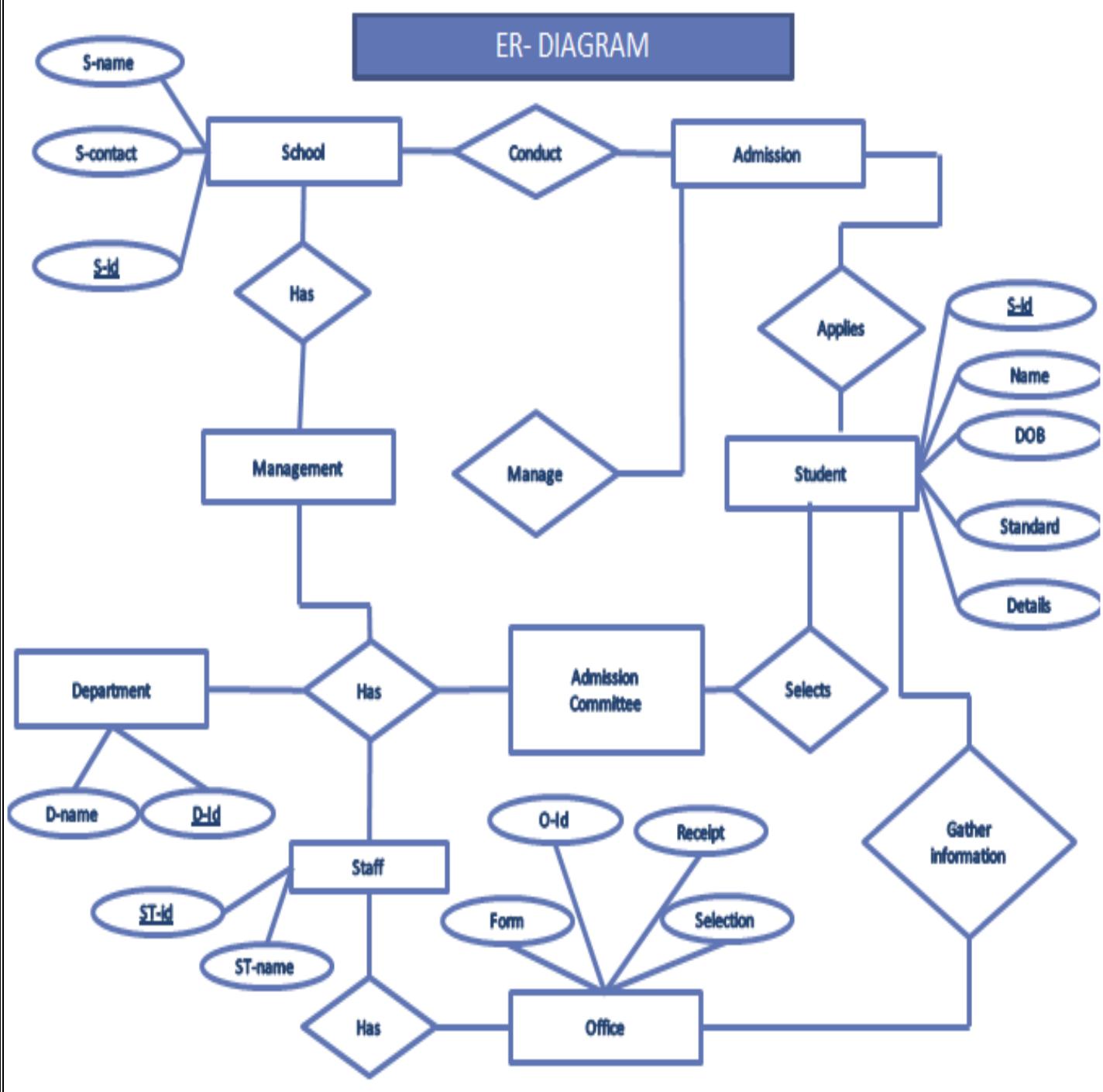
Purpose:

- This document gives the detailed functional and non-functional requirements mentioned in.
- It should be utilized by software developer to implement the system.

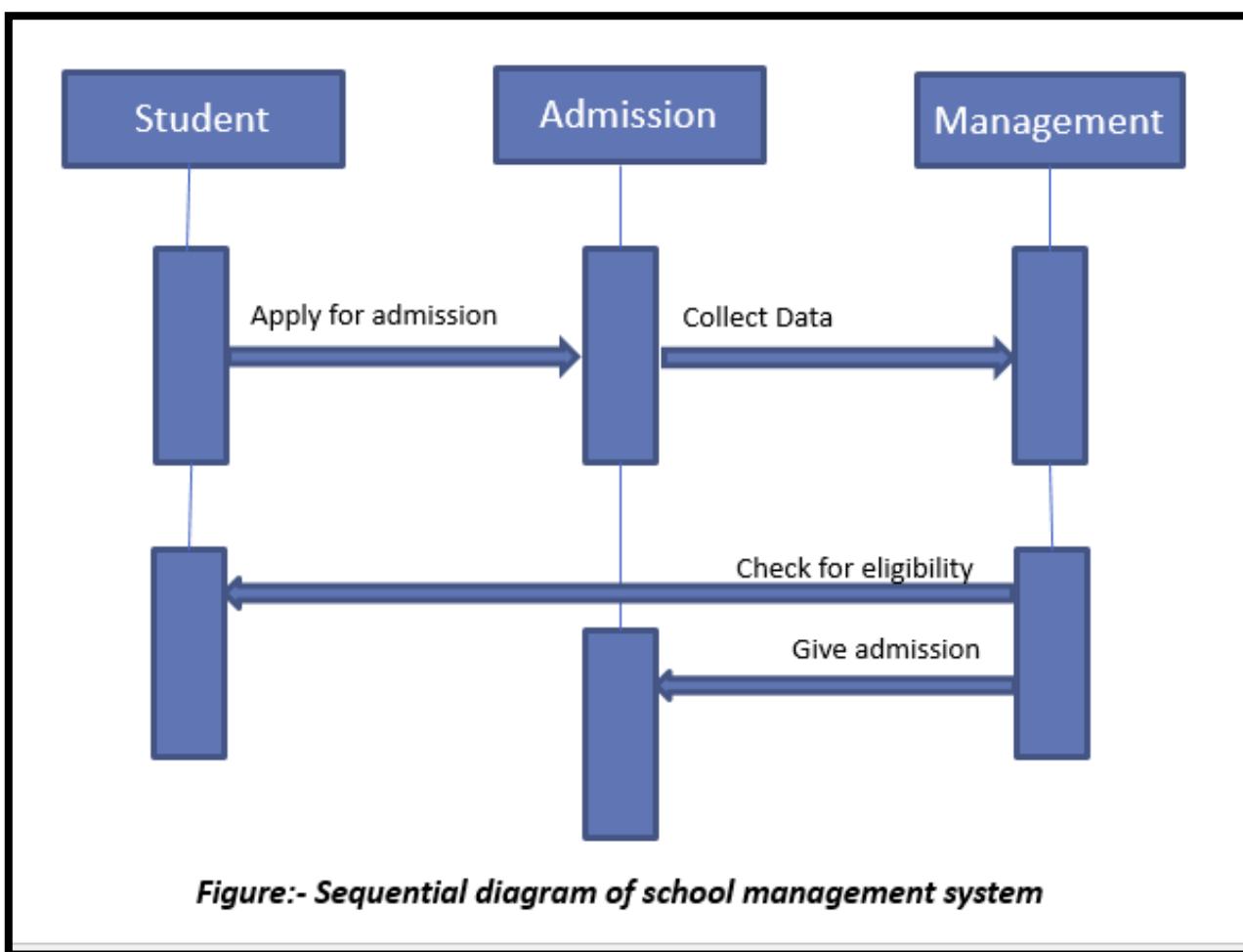
SRS of School Management system

- School management system database contains data of multiple school.
- Each School has a unique ID(SC-id), name(SC-name) and contact number (SC-contact)
- Every school has only one management team.
- The management team manage different department where each department has its own unique department id (D-id) and department name (D-name).
- Each department has staff which has their staff member's id (ST-id) and staff member name (ST-name).
- Every staff has their office where student can collect form, receipt and selection details.
- Every department has admission committee which manage the admission of student.
- Student has student id(S-id) , student name (S-name), DOB(S-dob), Standard(S-standard) and contact number (S-contact).
- Each student can gather information from office according to their department ad staff.

ER-Diagram



Sequential diagram of school management system



1) Query for Creating and using the database:

Language: Sql Server Editor: CodeMirror Layout: Vertical

```
1 create database StuddyBuddy;
2 Use StuddyBuddy;
```

Run it (F8) Save it View schema Live cooperation Put on a wall F ?
Absolute service time: 0.14 sec

2) Query for Creation of school table:

compile sql server online

Language: Sql Server Editor: CodeMirror Layout: Vertical

```
1 create table School(SC_id int not null, SC_name varchar(30) not null,SC_contact int, primary key(SC_id), unique(SC_id));
2 insert into School(SC_id, SC_name,SC_contact) values('01','GPD',6798),('02','RGD',5678);
3 select* from School;
4
5
6 create table Department(D_id int not null, D_name varchar(30) not null, primary key(D_id), unique(D_id));
7 insert into Department(D_id, D_name) values(101,'computer science'),(102,'Electrical');
8 select* from Department;
9
10
```

Run it (F8) Save it View schema Live cooperation Put on a wall F ?

3) Query for Insertion into School table:

Run it (F8) Save it View schema

Execution time: 0,02 sec, rows selected: 4, rows affected: 4, absolute service time: 0,16 sec

	SC_id	SC_name	SC_contact
1	1	GPD	6798
2	2	RGD	5678

	D_id	D_name
1	101	computer science
2	102	Electrical

4) Query to show the data of the table :

rextester.com//sql_server_online_compiler Search

```
1 create table Department(D_id int not null, D_name varchar(30) not null, primary key(D_id), unique(D_id));
2 insert into Department(D_id, D_name) values(101,'computer science'),(102,'Electrical');
3 select * from Department;
4
5 create table Staff(ST_id int not null, ST_name varchar(30) not null, primary key(ST_id), unique(ST_id));
6
7 select* from Staff;
8
9 ALTER TABLE Staff ADD Dno int, foreign key(Dno) references Department(D_id) ;
10 insert into Staff(ST_id, ST_name,dno) values(11,'Harshali',101),(22,'Kshitija',102);
11 select* from Staff;
```

Run it (F8) Save it View schema Live cooperation Put on a wall F ?

Execution time: 0,02 sec, rows selected: 4, rows affected: 4, absolute service time: 0,16 sec

	D_id	D_name
1	101	computer science
2	102	Electrical

	ST_id	ST_name	Dno
1	11	Harshali	101
2	22	Kshitija	102

5) Query to alter the table schema:

compile sql server online

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Language: Sql Server Editor: CodeMirror Layout: Vertical

```
1 create table Department(D_id int not null, D_name varchar(30) not null, primary key(D_id), unique(D_id));
2 insert into Department(D_id, D_name) values(101,'computer science'),(102,'Electrical');
3 select * from Department;
4
5 create table Staff(ST_id int not null, ST_name varchar(30) not null, primary key(ST_id), unique(ST_id));
6 select* from Staff;
7
8 ALTER TABLE Staff ADD Dno int, foreign key(Dno) references Department(D_id) ;
9 insert into Staff(ST_id, ST_name,dno) values(11,'Harshali',101),(22,'Kshitija',102);
10 select* from Staff;
11
12 UPDATE staff SET ST_name = 'Tanvi' where ST_id=11;
13 select* from Staff;
```

Run it (F8) Save it View schema Live cooperation Put on a wall F ?

Execution time: 0,03 sec, rows selected: 6, rows affected: 5, absolute service time: 0,19 sec

6) Query to update the value of any particular field:

Run it (F8) Save it View schema

Execution time: 0,03 sec, rows selected: 6, rows affected: 5, absolute service time: 0,19 sec

	D_id	D_name
1	101	computer science
2	102	Electrical

	ST_id	ST_name	Dno
1	11	Harshali	101
2	22	Kshitija	102

	ST_id	ST_name	Dno
1	11	Tanvi	101
2	22	Kshitija	102

7) Query to show any particular row or field using two different table(Relation of the table):

The screenshot shows a web-based SQL compiler interface. At the top, it displays the URL `rextester.com/sql_server_online_compiler`. Below the URL is a banner for "monday" with the text "The revolutionary project management tool is here and it's visual. Start Your Free Trial Now". The main area contains the following SQL code:

```
1 create table Department(D_id int not null, D_name varchar(30) not null, primary key(D_id), unique(D_id));
2 insert into Department(D_id, D_name) values(101,'computer science'),(102,'Electrical');
3 select * from Department;
4
5 create table Staff(ST_id int not null, ST_name varchar(30) not null, primary key(ST_id), unique(ST_id));
6 select* from Staff;
7
8 ALTER TABLE Staff ADD Dno int, foreign key(Dno) references Department(D_id) ;
9 insert into Staff(ST_id, ST_name,dno) values(11,'Harshali',101),(22,'Kshitija',102);
10 select* from Staff;
11
12 UPDATE staff SET ST_name = 'Tanvi' where ST_id=11;
13 select* from Staff;
14
15 select * from Staff,Department where ST_name='Kshitija' and D_id=Dno
```

At the bottom of the code editor, there are buttons for "Run it (F8)", "Save it", and "View schema". To the right, there are links for "Live cooperation", "Put on a wall", and help icons. A status message at the bottom indicates "Execution time: 0,05 sec, rows selected: 7, rows affected: 5, absolute service time: 0,2 sec".

The screenshot shows the results of the executed SQL queries. It includes four tables:

D_id	D_name
1	101 computer science
2	102 Electrical

ST_id	ST_name	Dno
1	11 Harshali	101
2	22 Kshitija	102

ST_id	ST_name	Dno
1	11 Tanvi	101
2	22 Kshitija	102

ST_id	ST_name	Dno	D_id	D_name
1	22 Kshitija	102	102	Electrical

SQL Queries

1) Query for Creating and using the database:

- *Create database StuddyBuddy;*
- *Use StuddyBuddy*

1) Query for Creation of school table :

- *create table student(ST_id int not null, ST_name varchar(30) not null, ST_contact int, primary key(ST_id), unique(ST_id));*

3) Query for Insertion into School table:

- *Insert into Student (ST_id,ST_name,ST_contact) values(01, 'Harshali', 995544),(02,'Kshitija',956622);*

4) Query to show the data of the table :

- *select* from Student;*

5) Query to alter the table schema:

- *alter table Staff add Dno int, foreign key(Dno)references Department(D_id);*

6) Query to update the value of any particular field:

- *update Staff set ST_name='Tanvi' where St_name='Harshali';*

7) Query to show any particular row or field using two different table (Relation of the table):

- *select* from Department,Staff where ST_name='Kshitija' and Department.D_id=Staff.Dno;*

*Thank
- You*

Database Management System

