Project name

STUDENT MANAGEMENT & RESULT PROCESSING SYSTEM

A Project Report submitted to the

Department of Computer Science and Engineering, Hajee Mohammad Danesh Science and Technology

University in partial fulfillment of the requirements for Database (CSE 302) Course of

B.Sc. (Engineering) in Computer Science and Engineering

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CONTENTS

Abstract

Student Management & Result Processing System deals with all kinds of student details, academic related record and can produce result automatically. This system tracks all the details of a student from the first day to the end day of his/her. Our project is only a humble venture to satisfy the needs in an institution. It deals with the various activities related to the students. There are mainly 3 modules in this project: Admin module, Student and Gradian module, Marks Management module. In the Project we can register as a user and user of two types, student and administrator. Administrator has the power to add new user and can edit and delete a user. A student can view their result and regular class activities and also can add, edit and delete his/her profile. The teacher can add edit and delete marks for the student. All user can see final marks of students. The main goal is to develop knowledge and skills and learn how to work as a team. Another main goal is to provide automation to the school.

CHAPTER 1: INTRODUCTION

1.1 Background of the Project

Student Management & Result Processing System is a web-based application which is helpful for students as well as the school authorities. In the current system all the activities are done manually. It is very time consuming and costly.

1.2 Objective of the project

Our Student Management & Result Processing System deals with the various activities related to the students. There are mainly 3 modules in this project:

- Admin module
- Student and Gradian module
- Marks Management module

In the Project we can register as a user and user of two types, student and administrator. Administrator has the power to add new user and can edit and delete a user. A student can view their result and regular class activities and also can add, edit and delete his/her profile. The teacher can add edit and delete marks for the student. All user can see final marks of students. The main goal is to develop knowledge and skills and learn how to work as a team. Another main goal is to provide automation to the school.

1.3 Inspiration of the project

Some of my friends and I went to our memorable primary school to see my elder brother's information and result. There we found a problem. Our school management don't use digital solution. We don't know why our school management don't use modern solutions for modern problems and our ministry don't try to get this solution. If our school management use digital solution, we can get the result sitting at home as covid-19 pandemic is going on. From this point, we got the inspiration of the project.

CHAPTER 2: SYSTEM ANALYSIS

2.1 Existing System

System analysis is a detailed study of the various operations performed by a system and their relationships within and outside of the system. Here the key question is what all problems exit in the present system? What must be done to solve the problem? Analysis begins when a user or teacher begins a study of the program using existing system. System analysis can be categorized into four parts:

- ✓ System planning and initial investigation
- ✓ Information gathering
- ✓ Applying analysis tools for structured analysis
- ✓ Feasibility study
- ✓ Cost and benefit analysis

2.2 Proposed System

In our proposed system we have the provision for adding marks by the teacher individually over internet. So the overhead of the school authorities and the teachers is became less. Another advantage of the system is that it is very easy to edit the details of the student and delete a student when it found unnecessary. The marks of the student are stored in the database and so students can also view the marks whenever they want. Our proposed system has several advantages:

- ➢ User friendly interface
- ➢ Fast access to database
- ➢ Search facility
- ➢ Look and feel easy environment
- ➢ Easy modification process

CHAPTER 3: REQUIREMENT ANALYSIS

3.1   Requirement analysis:

Requirement analysis is the process to gather requirements from the user, analyze them and make them consistent and unambiguous. This activity reviews all requirements and may provide a graphical view of the entire system. For this, we follow various information-gathering techniques like interviews, surveys, questionnaires task analysis domain analysis, etc. After the analysis of these requirements, the project functionalities can understand easily. Therefore, we collect and analyze the user requirements to make the project more efficient and user-friendly. Here, we may also use the interaction with the customer to clarify points of confusion and to understand which requirements are more important than others.

3.2   Steps of requirement analysis:

- Context diagram
- Model the requirements
- Finalize the requirements

3.2.1 Context diagram:

The context diagram is a simple model that defines the boundaries and interfaces of the proposed systems. Therefore, we made a context diagram for the census management system that defines the external interface of the system. Here, admin will add new admin and new employees to control the system. An employee will control the information of a specific area. The users will add members to the system. after taking the input the system will generate various results like census report, calculation, charts, etc.
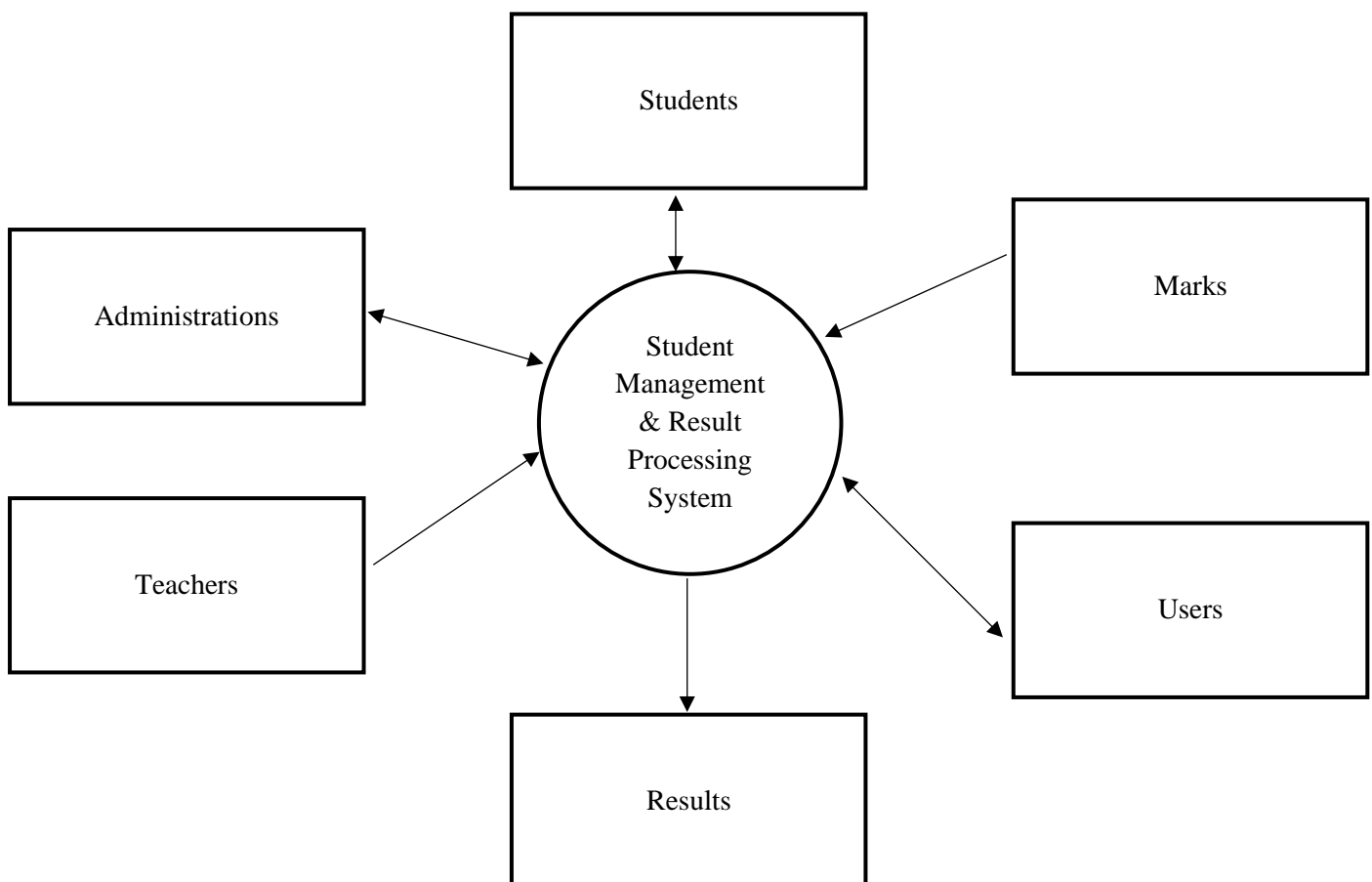
Figure 3.2.1: Context Diagram

3.2.2 Model the requirements

This process usually consists of various graphical representations of the functions, data entities, external entities, and the relationships between them. The graphical view may help to find incorrect, inconsistent, missing requirements. Such models include the

- Schema diagram
- Entity-Relationship diagram
- Use-case diagram
- Flow-chart

Schema- diagram: A schema diagram is a diagram which contains entities and the attributes that will define that schema. The Schema-diagram is shown in figure 3.2.2 below.
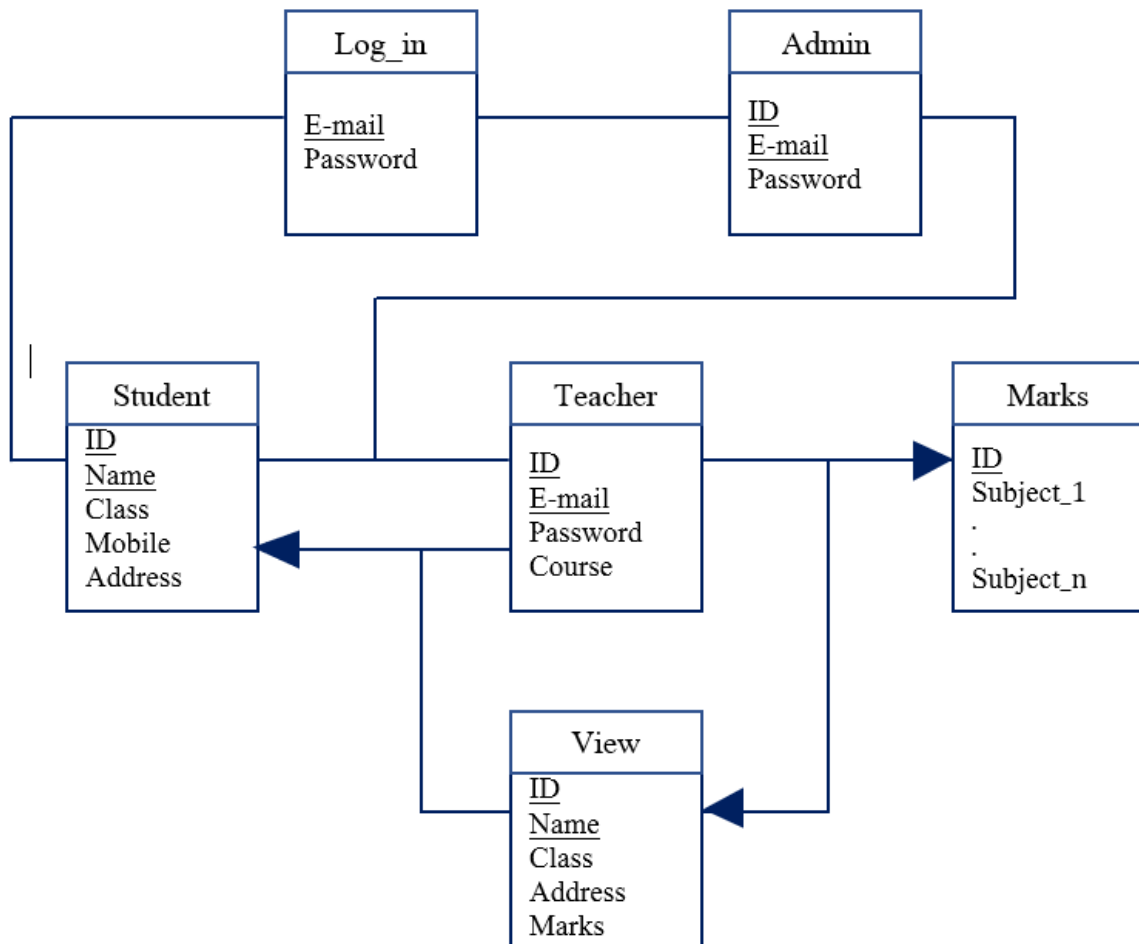

Figure 3.2.2 (a): Schema Diagram

ER- diagram:

Entity is an object with physical or conceptual existence. Example: a particular person, car, house, a company, a job, etc. It is a high-level conceptual data model diagram based on the notation of real-world entities and

relationships among them. ER-diagram is needed because it helps to analyze data requirements. Steps of constructing ER-diagram:

- Identify the entities.
- Identify relationships.
- Describe the relationship.
- Add attributes.
- Complete the diagram

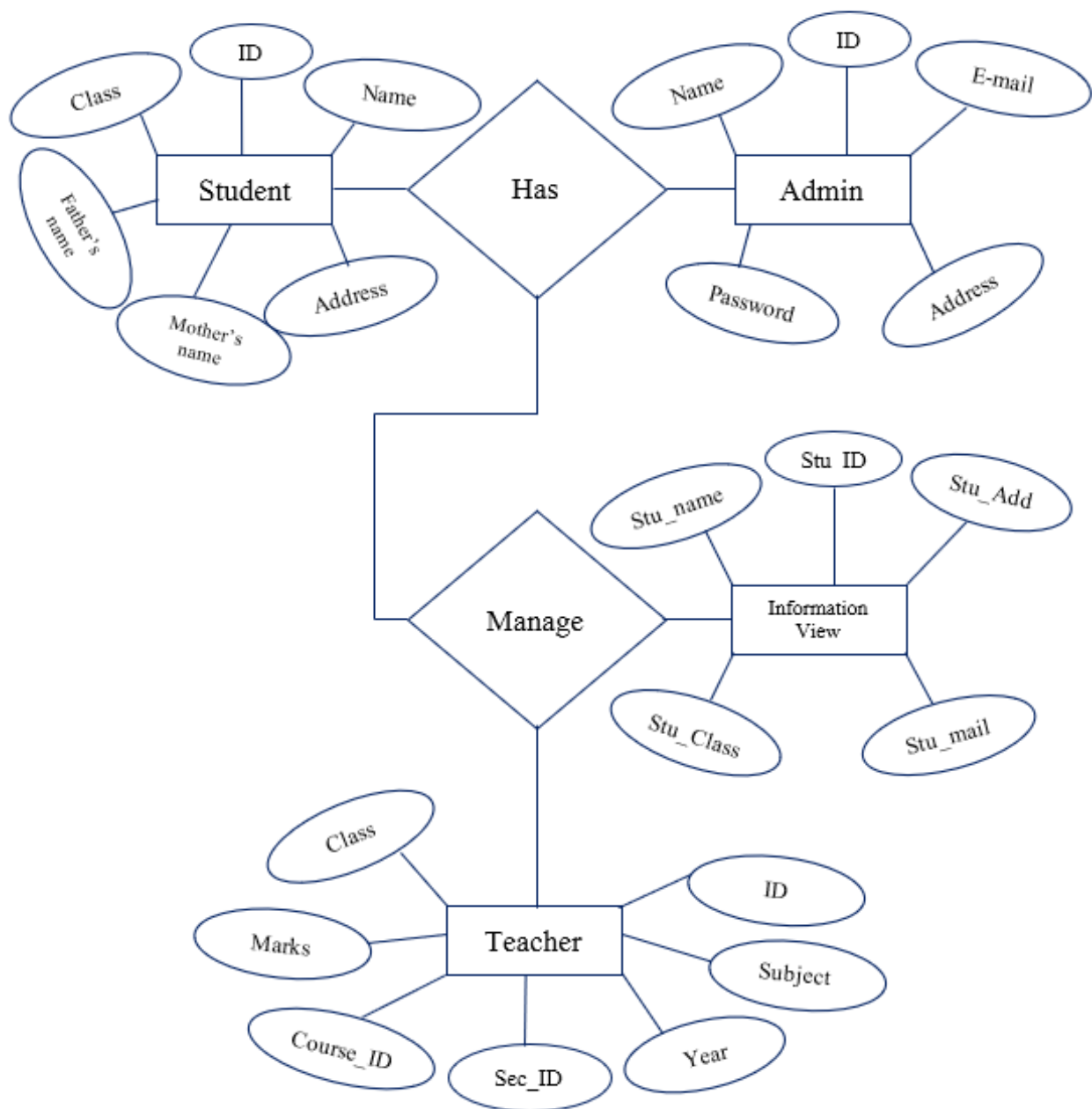The ER-diagram is shown in figure 3-3 below.

Figure 3.2.2 (b): E-R Diagram

Use-case diagram:

The use case diagram is dynamic in nature, there should be some internal or external factors for making the interaction. These internal and external agents are known as actors. Use case diagrams consists of actors, use cases and their relationships. The diagram is used to model the system/subsystem of an application. A single use case diagram captures a particular functionality of a system. In brief, the purposes of use case diagrams can be said to be as follows –

- Used to gather the requirements of a system.
- Used to get an outside view of a system.
- Identify the external and internal factors influencing the system.
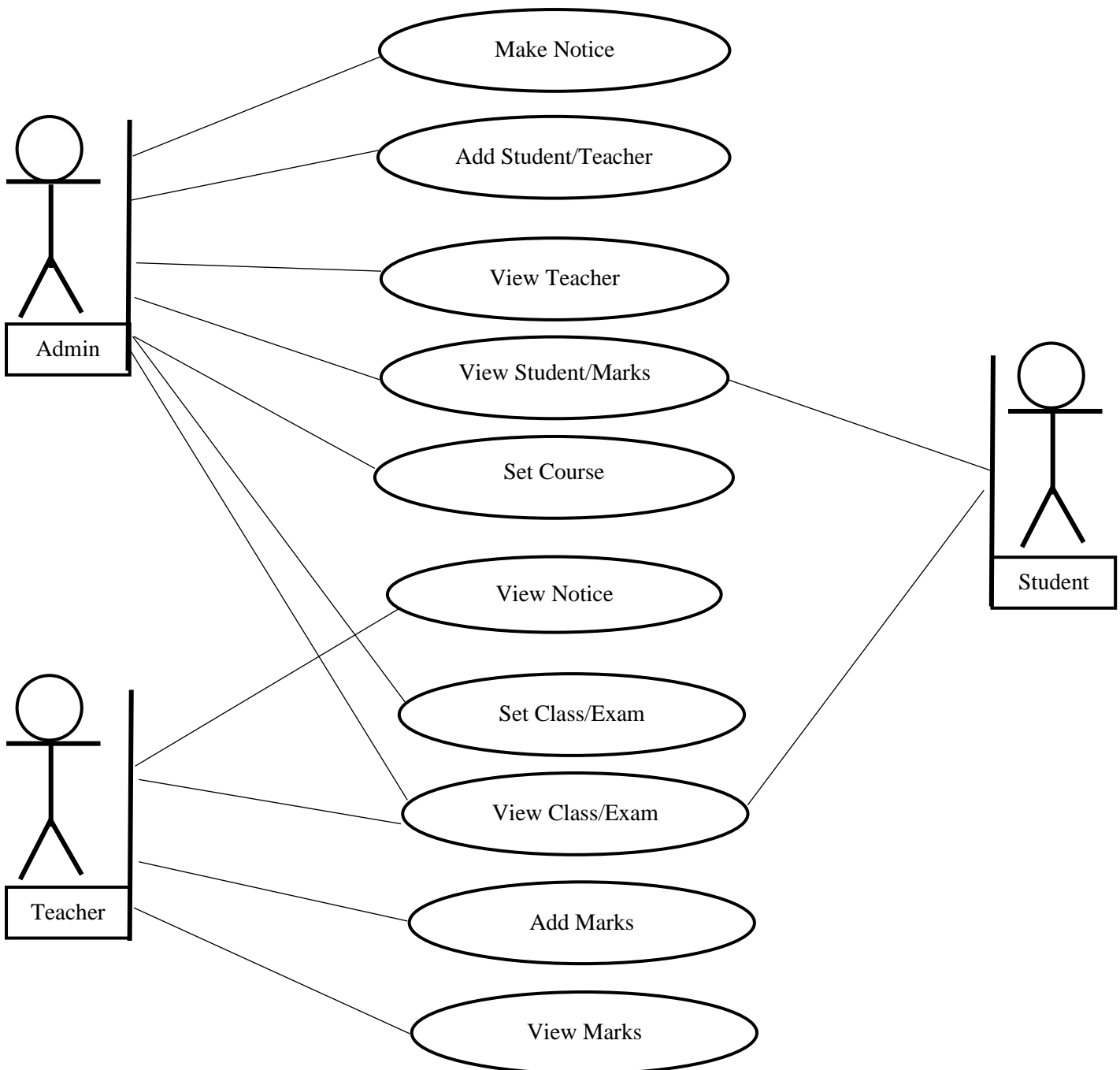- Show the interaction among the requirements are actors.

Figure 3.2.2 (c): E-R Diagram

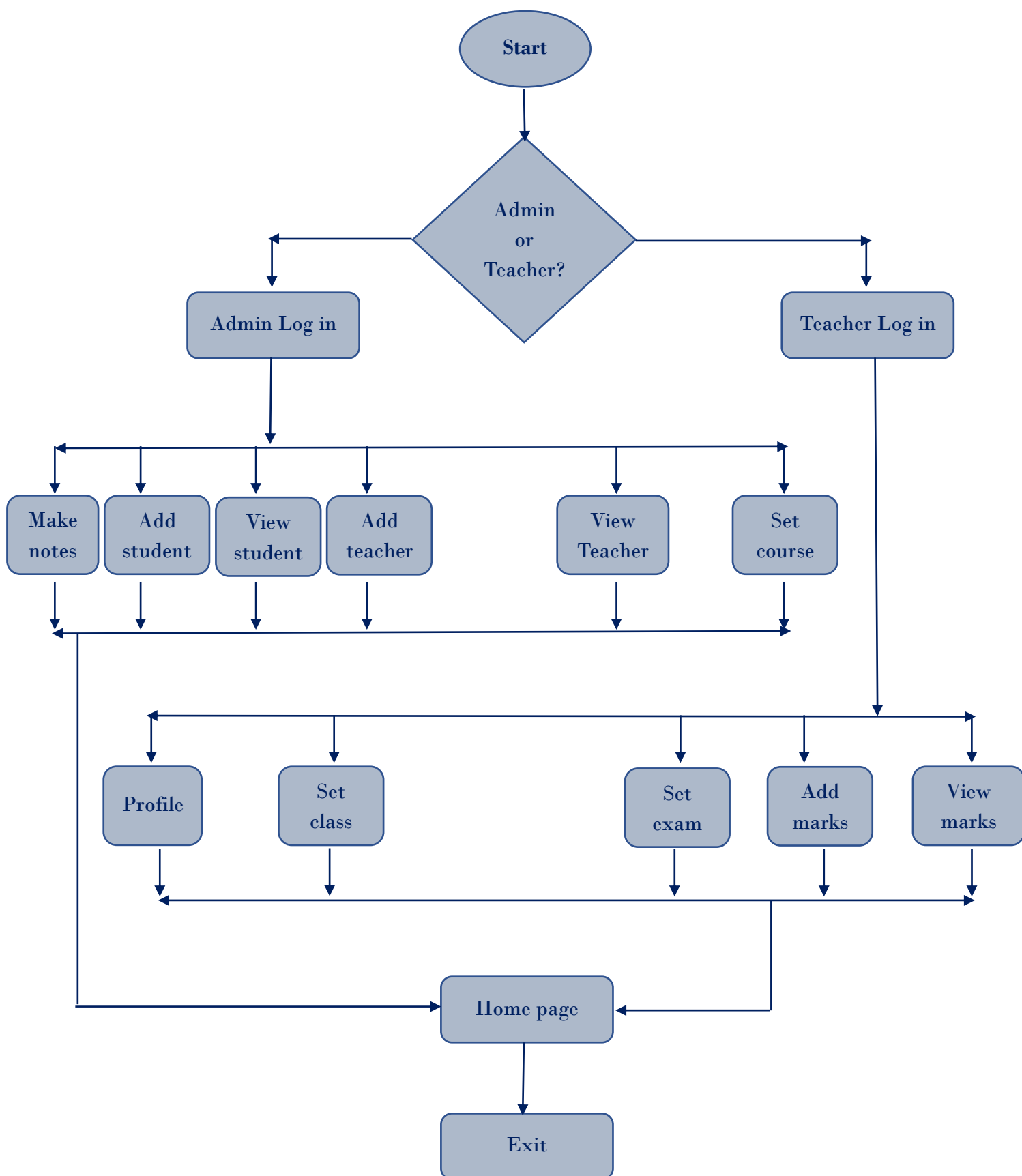**Flow-chat:** The Flowchart-diagram is shown in figure below.

Figure 3.2.2 (d): Flowchart Diagram

3.2.3 Finalize the requirements

Functional Requirements

The functional requirements of this system are:

- Register new students.
- Record the internal marks of students.
- Record the feed details of students.
- Register a new teacher/employee.
- Register a new user for the system.
- Record the salary details of employees.
- Record the course details and subject information.

Nonfunctional requirements

Requirements, which are not related to functional aspect of software, fall into this category.

Non-functional requirements include the following feature

- Security of data
- Logging into the system
- Storage of data
- Database configuration
- System cost
- System Flexibility
- Accessibility

User interface requirements

We made our user interface attractive, clear, consistent and responsive so that user can easily cope with the functionalities. User interface requirements are briefly mentioned below –

- Content presentation will be clear and attractive
- Easy Navigation using various technique like useful button, hover dropdown, click dropdown etc.
- Interface will be simple. There is no need to make excessive division of the page.
- Responsive
- UI elements will be consistent. Each button will be relatable with others.
- Purposeful layout
- Color and texture used carefully. We don't use excessive color in different parts. General font like time new romans, arial, Calibri etc. used. We don't use any zigzag font for general text.
- Provide help information. If any one can't understand anything, he can ask question for getting help.

3.3   Unit testing

Unit testing involves the testing of each unit or individual component of the software application. It is the first level of software testing. Our aim of unit testing is to validate unit component with its performance. A unit is a single testable part of a software system and tested during the development phase of the application software. Therefore, we used white box testing approach used for unit testing.

3.3.1 Unit testing tool that we used

PHPUnit:

PHPUnit unit testing tool used for PHP language. Here, we used PHP language to design the system. It provides assertions to use assertion methods (Methods are pre-defined) to make sure that system behaves in a required manner.

CHAPTER 4: PROJECT DESCRIPTION

4.1 Project overview

The Student Management & Result Processing System deals with the various activities related to the students. There are many modules in this project:

- Index page
- Admin panel
- Teacher panel
- Student panel
- Registration & login pages

4.1.1 Index page

This is index page including 4 navigation bars. Admin and Teacher are important navigation bar which can be navigated after completing login. From this page both Admin and Teacher can login.
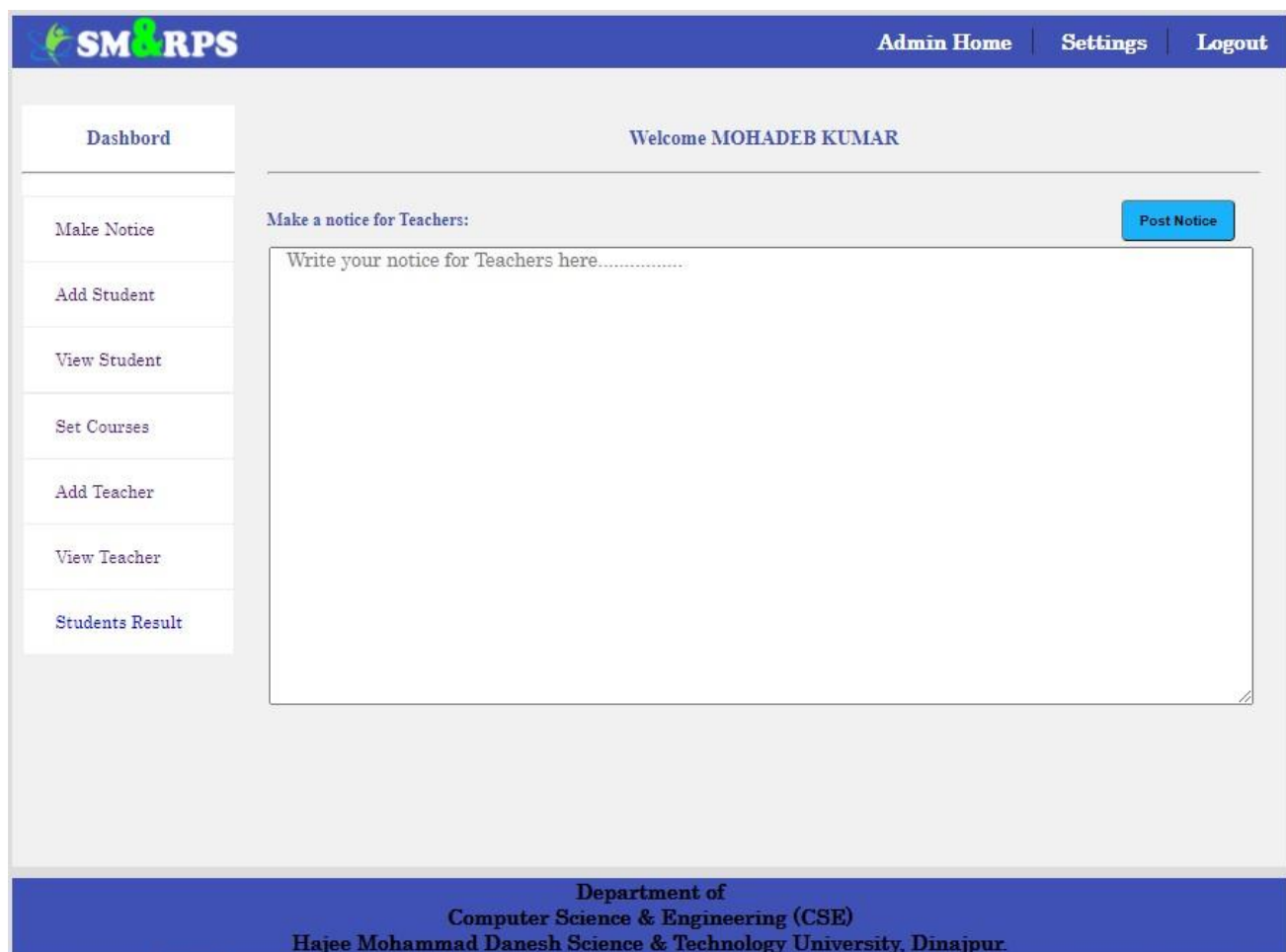
4.1.2 Admin panel

After completing login as Admin this page will appear. Here contains some functionality to operate on respective operation such as making notice, adding student/teacher and viewing information.

SM&RPS

Admin Home | Settings | Logout

Dashbord

Make Notice

Add Student

View Student

Set Courses

Add Teacher

View Teacher

Students Result

Welcome MOHADEB KUMAR

Formal documentation is supposed to describe the system and so make it easier for people changing the system to understand. In practice, however, formal documentation is rarely updated and so does not accurately reflect the program code. For this reason, agile methods enthusiasts argue that it is a waste of time to write this documentation and that the key to implementing maintainable software is to produce high-quality, readable code. The lack of documentation should not be a problem in maintaining systems developed using an agile approach. However, my experience of system maintenance is that the most important document is the system requirements document, which tells the software engineer what the system is supposed to do. Without such knowledge, it is difficult to assess the impact of proposed system changes.

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SM&RPS

Dashbord

Make Notice

Add Student

View Student

Set Courses

Add Teacher

View Teacher

Students Result

Welcome MOHADEB KUMAR

Student ID: *
`A101`

Student Name: *
`Mohadeb Kumar`

Father's Name: *
`Binoy Chandra Debnath`

Mother's Name: *
`Shobha Rani Debnath`

Date of Birth: *
`03/07/2018`

Class: *
`I`

Gender: *
◉Male ○Female

Phone No:
`01746019124`

Address:
`Bogura`

Student's Image: *
Choose File | mohadeb_kumar.jpg

Add Student Details

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Dashbord

Make Notice

Add Student

View Student

Set Courses

Add Teacher

View Teacher

Students Result

Welcome MOHADEB KUMAR

Search Students per Class

🔍 [II]

SID	Name	Father	Mother	Gender	Class	View	Edit	Delete
B101	Mohadeb Kumar	Binoy Chandra Debnath	Shoba Rani	Male	II	View	Edit	Delete
B102	Amit Debnath	Biram Chandra Debnath	Diptti Rani Debnath	Male	II	View	Edit	Delete
B103	Puja Rani Debnath	Protab Chandra Debnath	Ratoshi Rani	Female	II	View	Edit	Delete
B104	Jibon Pramanik	Ramindra Pramanik	Shondha Rani	Male	II	View	Edit	Delete
B105	Borsha Mohanta	Bishno Chandra Mohanta	Bijoli Rani Mohanta	Female	II	View	Edit	Delete

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Dashbord

Make Notice

Add Student

View Student

Set Courses

Add Teacher

View Teacher

Students Result

Welcome MOHADEB KUMAR

Set Course Teacher

Teacher ID: *

Select ▼

Class: *

Select ▼

Subject Name: *

Enter taken Subject by Teacher

Add Course Teacher

Course-Wise Details

TID	NAME	SUBJECT	CLASS	DELETE
T101	MOHADEB KUMAR	Bangla	I	Delete
T101	MOHADEB KUMAR	Bangla	II	Delete
T101	MOHADEB KUMAR	Bangla	III	Delete
T101	MOHADEB KUMAR	Bangla	IV	Delete
T103	PRIYA SARKAR	Mathematics	I	Delete
T103	PRIYA SARKAR	Mathematics	II	Delete
T103	PRIYA SARKAR	Mathematics	III	Delete
T103	PRIYA SARKAR	Mathematics	IV	Delete
T110	Panjkaj Roy	Mathematics	III	Delete

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Admin Home | Settings | Logout

Dashbord

Make Notice

Add Student

View Student

Set Courses

Add Teacher

View Teacher

Students Result

Welcome MOHADEB KUMAR

Teacher ID: *

T102

Name: *

Mohadeb Kumar

Email: *

mohadeb.cse@gmail.com

Password: *

123

☑ Show Password

Registation as Teacher

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Dashbord

Make Notice

Add Student

View Student

Set Courses

Add Teacher

View Teacher

Students Result

Welcome MOHADEB KUMAR

View Teacher Details

TID	Name	Qualification	Gender	Salary	Image	View	Delete
T101	MOHADEB KUMAR	BSC Eng. in CSE	Male	45000.00		View	Delete
T102	PANKAJ ROY	BSC Eng. in CSE	Male	46000.00	upload Pending	View	Delete
T103	PRIYA SARKAR	BSC in MATHEMATICS	Female	45500.00		View	Delete
T104	LITU BOCHON	BSC Eng. in CSE	Male	44500.00	upload Pending	View	Delete
T105	JAKIR HOSSAIN	BSC Eng. in CSE	Male	44000.00	upload Pending	View	Delete
T106	Mr. Motu	BSc Eng. in CSE	Male	0.00		View	Delete
T107	AKHI DEB	BSc in Chemistry	Female	45000.50		View	Delete

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4.1.3 Teacher panel

After completing login as Teacher this page will appear. Here contains some functionality to operate on respective operation such as adding marks, adding student classes and viewing information.

SM&RPS

Teacher Home | Settings | Logout

Dashbord

Welcome MOHADEB KUMAR

Upload Profile Image: * [Choose File] No file chosen   [Submit Image]   [Edit Profile Info]

Profile
Set Class
Set Exam
Add Marks
View Marks

Name	MOHADEB KUMAR
Qualification	BSC Eng. in CSE
Gender	Male
Subject	Bangla (Class-I) Bangla (Class-II) Bangla (Class-III) Bangla (Class-IV)
Salary	45000.00 TK
Phone No	01521491161
Email	mohadeb.cse@gmail.com
Address	Adamdighi, Bogura

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Dashbord

Profile

Set Class

Set Exam

Add Marks

View Marks

Welcome MOHADEB KUMAR

Subject: *

Bangla ⌄

Class: *

I ⌄

Password: *

123

☑ Show Password

Go Add Marks

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Teacher Home | Settings | Logout

Dashbord

Profile

Set Class

Set Exam

Add Marks

View Marks

Welcome MOHADEB KUMAR

SID: Name: Marks:

[Submit]

Add Student Marks

SID	Name	Gender	Class	Bangla	Add Marks
A101	Mohadeb Kumar	Male	I	90.00	Add Marks
A102	Amit Debnath	Male	I	86.50	Add Marks
A103	Puja Rani Debnath	Female	I	65.00	Add Marks
A104	Jibon Pramanik	Male	I	86.50	Add Marks
A105	Borsha Mohanta	Female	I	67.00	Add Marks
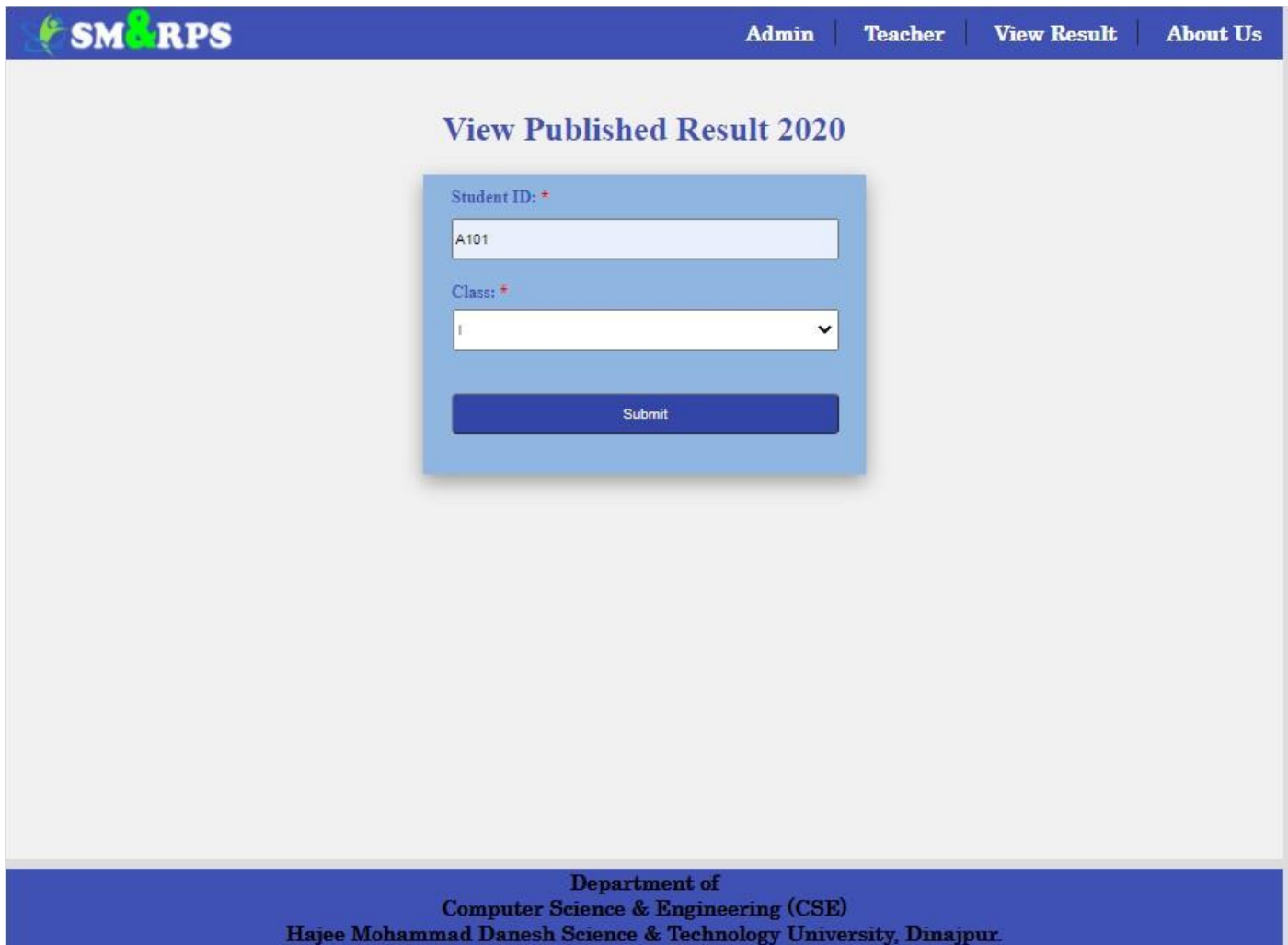
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4.1.4 Student panel

From here student can see published result

SM&RPS

Admin | Teacher | View Result | About Us

Print Result

Final Exam Result 2020

Student Details

Student ID	A101
Name of Student	Mohadeb Kumar
Father's Name	Binoy Chandra Debnath
Mother's Name	Shoba Rani
Class	I
Gender	Male
Name of Institute	Karai Md.Kabel High School, Bogura

Subject-Wise Marks

SUBJECT NAME	MARKS
Bangla	90.00
English	90.50
Mathematics	88.00
TOTAL MARKS	268.5

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CHAPTER 5: USES OF DATABASE (SQL)

5.1 SQL Statements

Creating "management" Database:

CREATE DATABASE management;

Creating "Table" under management Database:

```
CREATE TABLE admin(
    AID varchar(10),
    ANAME varchar(50),
    APASSWORD varchar(50),     //This is "admin" table
    NOTICE TEXT,
    PRIMARY KEY(AID)
    );

CREATE TABLE course(

    TID varchar(10),
    CLASS varchar(10),         //This is "course" table
    SUBJECT varchar(150)
    );

CREATE TABLE marks(

    SID varchar(10),
    BANGLA double(4,2),
    ENGLISH double(4,2),    //This is "marks" table
    MATHEMATICS double(4,2),
    TOTAL double(4,2),

    PRIMARY KEY(SID)
  )

CREATE TABLE student(

  SID varchar(10),
  SNAME varchar(50),
  FATHER varchar(50),
  MOTHER varchar(50),
  GENDER varchar(20),              //This is "student" table
  CLASS varchar(10),
  DOB date,
  PHONE varchar(30),
  ADDRESS text,
  IMG varchar(200),
```

```
   PRIMARY KEY(SID)
   );

CREATE TABLE teacher(

   TID varchar(10),
   TNAME varchar(50),
   TPASSWORD varchar(50),
   QUALIFICATION varchar(100),          //This is "teacher" table
   GENDER varchar(20),
   SALARY double(8,2),
   EMAIL varchar(50),
   PHONE varchar(30),
   ADDRESS text,
   IMG varchar(200),

   PRIMARY KEY(TID)
   );
```

Manipulation "management Database (SQL using "INSERT"):

```
INSERT INTO admin(AID,ANAME,APASSWORD)
VALUES
('M101', 'MOHADEB KUMAR', '123');



INSERT INTO teacher(TID, TNAME, TPASSWORD, QUALIFICATION, GENDER, SALARY, EMAIL,
PHONE, ADDRESS)
VALUES
('T101', 'MOHADEB KUMAR', '123', 'BSC Eng. in CSE', 'Male', 45000.00, 'mohadeb.cse@gmail.com',
'01521491161', 'Adamdighi, Bogura'),

('T102', 'PANKAJ ROY', '456', 'BSC Eng. in CSE', 'Male', 46000.00, 'pankaj@gmail.com', '01736542598',
'Ranigonj, Lalmonirhat'),

('T103', 'PRIYA SARKAR', '123', 'BSC in MATHEMATICS', 'Female', 45500.00, 'priya@gmail.com',
'01535462598', 'Naogaon Sardar, Naogaon'),

('T104', 'LITU BOCHON', '789', 'BSC Eng. in CSE', 'Male', 44500.00, 'bochon@gmail.com', '01823654695',
'Sherpur, Nohakhali'),

('T105', 'JAKIR HOSSAIN', '321', 'BSC Eng. in CSE', 'Male', 44000.00, 'jakir@gmail.com', '01732165016',
'Kaharol, Dinajpur');



INSERT INTO student(SID, SNAME, FATHER, MOTHER, GENDER, CLASS, DOB, PHONE,
ADDRESS)
```

VALUES
('A101', 'Mohadeb Kumar', 'Binoy Chandra Debnath', 'Shoba Rani', 'Male', 'I', '17-09-2014', '01746019124', 'Karai, Adamdighi, Bogura'),

('A102', 'Amit Debnath', 'Biram Chandra Debnath', 'Diptti Rani Debnath', 'Male', 'I', '08-12-2014', '01736425985', 'Karai, Adamdighi, Bogura'),

('A103', 'Puja Rani Debnath', 'Protab Chandra Debnath', 'Ratoshi Rani', 'Female', 'I', '16-08-2014', '01563236524', 'Tilabadury, Attrai, Naogaon'),

('A104', 'Jibon Pramanik', 'Ramindra Pramanik', 'Shondha Rani', 'Male', 'I', '14-05-2014', '01832165235', 'Karai, Adamdighi, Bogura'),

('A105', 'Borsha Mohanta', 'Bishno Chandra Mohanta', 'Bijoli Rani Mohanta', 'Female', 'I', '19-05-2014', '01965412365', 'Karai, Adamdighi, Bogura'),

('B101', 'Mohadeb Kumar', 'Binoy Chandra Debnath', 'Shoba Rani', 'Male', 'II', '17-09-2014', '01746019124', 'Karai, Adamdighi, Bogura'),

('B102', 'Amint Debnath', 'Biram Chandra Debnath', 'Diptti Rani Debnath', 'Male', 'II', '08-12-2014', '01736425985', 'Karai, Adamdighi, Bogura'),

('B103', 'Puja Rani Debnath', 'Protab Chandra Debnath', 'Ratoshi Rani', 'Female', 'II', '16-08-2014', '01563236524', 'Tilabadury, Attrai, Naogaon'),

('B104', 'Jibon Pramanik', 'Ramindra Pramanik', 'Shondha Rani', 'Male', 'II', '14-05-2014', '01832165235', 'Karai, Adamdighi, Bogura'),

('B105', 'Borsha Mohanta', 'Bishno Chandra Mohanta', 'Bijoli Rani Mohanta', 'Female', 'II', '19-05-2014', '01965412365', 'Karai, Adamdighi, Bogura'),

('C101', 'Mohadeb Kumar', 'Binoy Chandra Debnath', 'Shoba Rani', 'Male', 'III', '17-09-2014', '01746019124', 'Karai, Adamdighi, Bogura'),

('C102', 'Amint Debnath', 'Biram Chandra Debnath', 'Diptti Rani Debnath', 'Male', 'III', '08-12-2014', '01736425985', 'Karai, Adamdighi, Bogura'),

('C103', 'Puja Rani Debnath', 'Protab Chandra Debnath', 'Ratoshi Rani', 'Female', 'III', '16-08-2014', '01563236524', 'Tilabadury, Attrai, Naogaon'),

('C104', 'Jibon Pramanik', 'Ramindra Pramanik', 'Shondha Rani', 'Male', 'III', '14-05-2014', '01832165235', 'Karai, Adamdighi, Bogura'),

('C105', 'Borsha Mohanta', 'Bishno Chandra Mohanta', 'Bijoli Rani Mohanta', 'Female', 'III', '19-05-2014', '01965412365', 'Karai, Adamdighi, Bogura'),

('D101', 'Mohadeb Kumar', 'Binoy Chandra Debnath', 'Shoba Rani', 'Male', 'IV', '17-09-2014', '01746019124', 'Karai, Adamdighi, Bogura'),

('D102', 'Amit Debnath', 'Biram Chandra Debnath', 'Diptti Rani Debnath', 'Male', 'IV', '08-12-2014', '01736425985', 'Karai, Adamdighi, Bogura'),

('D103', 'Puja Rani Debnath', 'Protab Chandra Debnath', 'Ratoshi Rani', 'Female', 'IV', '16-08-2014', '01563236524', 'Tilabadury, Attrai, Naogaon'),

('D104', 'Jibon Pramanik', 'Ramindra Pramanik', 'Shondha Rani', 'Male', 'IV', '14-05-2014', '01832165235', 'Karai, Adamdighi, Bogura'),

('D105', 'Borsha Mohanta', 'Bishno Chandra Mohanta', 'Bijoli Rani Mohanta', 'Female', 'IV', '19-05-2014', '01965412365', 'Karai, Adamdighi, Bogura'),

('E101', 'Mohadeb Kumar', 'Binoy Chandra Debnath', 'Shoba Rani', 'Male', 'V', '17-09-2014', '01746019124', 'Karai, Adamdighi, Bogura'),

('E102', 'Amit Debnath', 'Biram Chandra Debnath', 'Diptti Rani Debnath', 'Male', 'V', '08-12-2014', '01736425985', 'Karai, Adamdighi, Bogura'),

('E103', 'Puja Rani Debnath', 'Protab Chandra Debnath', 'Ratoshi Rani', 'Female', 'V', '16-08-2014', '01563236524', 'Tilabadury, Attrai, Naogaon'),

('E104', 'Jibon Pramanik', 'Ramindra Pramanik', 'Shondha Rani', 'Male', 'V', '14-05-2014', '01832165235', 'Karai, Adamdighi, Bogura'),

('E105', 'Borsha Mohanta', 'Bishno Chandra Mohanta', 'Bijoli Rani Mohanta', 'Female', 'V', '19-05-2014', '01965412365', 'Karai, Adamdighi, Bogura');


```
INSERT INTO course(TID, CLASS, SUBJECT)
VALUES
('T101', 'I', 'Bangla'),
('T101', 'II', 'Bangla'),
('T101', 'III', 'Bangla'),
('T101', 'IV', 'Bangla'),

('T102', 'I', 'Mathematics'),
('T102', 'II', 'Mathematics'),
```

('T102', 'III', 'Mathematics'),
('T102', 'IV', 'Mathematics'),

('T103', 'I', 'English'),
('T103', 'II', 'English'),
('T103', 'III', 'English'),
('T103', 'IV', 'English');

INSERT INTO marks(SID, BANGLA, ENGLISH, MATHEMATICS)
VALUES
('A101', 85.00, 90.50, 88.00),
('A102', 86.50, 45.00, 45.00),
('A103', 55.00, 43.50, 88.50),
('A104', 86.50, 65.00, 78.00),
('A105', 67.00, 45.50, 67.00),

('B101', 85.00, 90.50, 88.00),
('B102', 86.50, 45.00, 45.00),
('B103', 55.00, 43.50, 88.50),
('B104', 86.50, 65.00, 78.00),
('B105', 67.00, 45.50, 67.00),

('C101', 85.00, 90.50, 88.00),
('C102', 86.50, 45.00, 45.00),
('C103', 55.00, 43.50, 88.50),
('C104', 86.50, 65.00, 78.00),
('C105', 67.00, 45.50, 67.00),

('D101', 85.00, 90.50, 88.00),
('D102', 86.50, 45.00, 45.00),
('D103', 55.00, 43.50, 88.50),
('D104', 86.50, 65.00, 78.00),
('D105', 67.00, 45.50, 67.00);

Manipulation "management Database (SQL using "ALTER"):
ALTER TABLE marks
DROP COLUMN TOTAL;

ALTER TABLE admin
ADD COLUMN USERNAME varchar(100);

Manipulation "management Database (SQL using "UPDATE"):
UPDATE teacher
SET SALARY=45000.50 WHERE TID='T107'

Manipulation "management Database (SQL using "indext.php page"):
$sql="SELECT AID,ANAME FROM admin
     WHERE USERNAME='{$_POST["ademail"]}' **AND**
   APASSWORD='{$_POST["adpass"]}'";

Manipulation "management Database (SQL using "admin_home.php page"):
$sql="SELECT NOTICE FROM admin WHERE AID='{$_SESSION["AID"]}'";
Manipulation "management Database (SQL using "make_notice.php page"):
$sql="UPDATE admin
     SET NOTICE='{$_POST['notice']}'
     WHERE AID='{$_SESSION[
Manipulation "management Database (SQL using "add_student.php page"):
$sql="INSERT INTO
student(SID,SNAME,FATHER,MOTHER,DOB,GENDER,PHONE,ADDRESS,CLASS,IMG) VALUES(
                        '{$_POST["sid"]}',
                        '{$_POST["sname"]}',
                        '{$_POST["father"]}',
                        '{$_POST["mother"]}',
                        '{$_POST["dob"]}',
                        '{$_POST["gender"]}',
                        '{$_POST["phone"]}',
                        '{$_POST["address"]}',
                        '{$_POST["class"]}',
                        '{$target_file}')";
Manipulation "management Database (SQL using "add_marks.php page"):
$sql="SELECT SID,SNAME FROM student WHERE SID='{$_GET["id"]}'";

$sql2="UPDATE marks
SET BANGLA='{$_POST['smarks']}'
WHERE SID='{$_SESSION['sid']}'";

$sql2="UPDATE marks
SET MATHEMATICS='{$_POST['smarks']}'
WHERE SID='{$_SESSION['sid']}'";

$sql2="UPDATE marks
SET ENGLISH='{$_POST['smarks']}'
WHERE SID='{$_SESSION['sid']}'";

$sql="SELECT s.SID,s.SNAME,s.GENDER, s.CLASS, m.BANGLA, m.MATHEMATICS, m.ENGLISH
FROM student AS s JOIN marks AS m
ON (s.SID=m.SID AND s.CLASS='{$_SESSION["CLASS"]}')";

Manipulation "management Database (SQL using "add_teacher.php page"):
$sql="INSERT INTO teacher(TID,TNAME,EMAIL,TPASSWORD)
VALUES ('{$_POST["tid"]}','{$_POST["tname"]}','{$_POST["email"]}','{$_POST["tpass"]}')";

Manipulation "management Database (SQL using "delete_course.php page"):
$sql="DELETE FROM course
WHERE TID='{$_GET["tid"]}' AND SUBJECT='{$_GET["subject"]}' AND CLASS='{$_GET["class"]}'";

Manipulation "management Database (SQL using "delete_student.php page"):
$sql="DELETE FROM student WHERE SID='{$_GET["sid"]}'";

Manipulation "management Database (SQL using "delete_teacher.php page"):
$sql="DELETE FROM teacher WHERE TID='{$_GET["tid"]}'";

Manipulation "management Database (SQL using "desired_result.php page"):
$sql="SELECT* FROM student WHERE SID='{$_SESSION["SID"]}'";
$sql2="SELECT* FROM marks WHERE SID='{$_SESSION["SID"]}'";

Manipulation "management Database (SQL using "edit_profile.php page"):
$sql="SELECT TNAME,QUALIFICATION,GENDER,PHONE,EMAIL,ADDRESS FROM teacher
WHERE TID='{$_SESSION["TID"]}'";

$sql2="UPDATE teacher
                                                                    SET

TNAME='{$_POST['tname']}',

QUALIFICATION='{$_POST['qualification']}',

GENDER='{$_POST['gender']}',

PHONE='{$_POST['phone']}',

ADDRESS='{$_POST['address']}'

                                                                    WHERE
TID='{$_SESSION['TID']}'";

Manipulation "management Database (SQL using "edit_student.php page"):
$sql="SELECT SID,SNAME,FATHER,MOTHER,DOB,CLASS,GENDER,PHONE,ADDRESS FROM
student WHERE SID='{$_GET["sid"]}'";

$sql2="UPDATE student
                                                                    SET

SNAME='{$_POST['sname']}',

FATHER='{$_POST['father']}',

MOTHER='{$_POST['mother']}',

DOB='{$_POST['dob']}',

GENDER='{$_POST['gender']}',

PHONE='{$_POST['phone']}',

ADDRESS='{$_POST['address']}'

WHERE
SID='{$_SESSION['sid']}'";

Manipulation "management Database (SQL using "search_student.php page"):
$sql="SELECT SID,SNAME,FATHER,MOTHER,GENDER,CLASS FROM student WHERE CLASS
LIKE '{$_POST["s"]}' ";

Manipulation "management Database (SQL using "set_course.php page"):
$sq="INSERT INTO course(TID,SUBJECT,CLASS)
VALUES ('{$_POST["tid"]}','{$_POST["subject"]}','{$_POST["class"]}')";

$sql="SELECT TID FROM teacher";

$sql="SELECT c.TID, t.TNAME, c.SUBJECT, c.CLASS
FROM teacher AS t, course AS c
WHERE t.TID=c.TID";

Manipulation "management Database (SQL using "student_profile_admin_view.php page"):
$sql="SELECT* FROM student WHERE SID='{$_GET["sid"]}'";

$sql="UPDATE student
SET IMG='{$target_file}'
WHERE SID='{$_SESSION["sid"]}'";

$sql2="SELECT* FROM student WHERE SID='{$_SESSION["sid"]}'";
Manipulation "management Database (SQL using "teacher_home.php page"):
$sql="SELECT NOTICE FROM admin WHERE AID='M101'";
Manipulation "management Database (SQL using "teacher_login.php page"):
$sql="SELECT* FROM teacher WHERE EMAIL='{$_POST["temail"]}' and
TPASSWORD='{$_POST["tpass"]}'";
Manipulation "management Database (SQL using "teacher_profile.php page"):
$sql="SELECT* FROM teacher WHERE TID='{$_SESSION["TID"]}'";

$sql="UPDATE teacher
SET IMG='{$target_file}'
WHERE TID='{$_SESSION["TID"]}'";

$sql2="SELECT* FROM teacher WHERE TID='{$_SESSION["TID"]}'";
$sql2="SELECT SUBJECT,CLASS FROM course WHERE TID='{$_SESSION["TID"]}'";

Manipulation "management Database (SQL using "teacher_profile_admin_view.php page"):

$sql="SELECT* FROM teacher WHERE TID='{$_GET["tid"]}'";
$sql2="SELECT SUBJECT,CLASS FROM course WHERE TID='{$_GET["tid"]}'";

Manipulation "management Database (SQL using "teacher_settings.php page"):

$sql1="SELECT TID, TPASSWORD
FROM teacher
WHERE TID='{$_SESSION['TID']}' && TPASSWORD='{$_POST['tpass']}'";

$sql2="UPDATE teacher
SET TPASSWORD='{$_POST['newpass']}'
WHERE TID='{$_SESSION['TID']}'";
$sql="SELECT EMAIL FROM teacher WHERE TID='{$_SESSION["TID"]}'";

Manipulation "management Database (SQL using "valid_add_marks.php page"):

$sql1="SELECT TID,SUBJECT,CLASS
FROM course
WHERE TID='{$_SESSION["TID"]}' AND SUBJECT='{$_POST["subject"]}' AND
CLASS='{$_POST["class"]}'";
$sql2="SELECT TID,TPASSWORD
FROM teacher
WHERE TID='{$_SESSION["TID"]}' AND TPASSWORD='{$_POST["tpass"]}'";

$sql="SELECT DISTINCT SUBJECT FROM course;";

Manipulation "management Database (SQL using "view_result.php page"):
$sql="SELECT SID,CLASS FROM student
WHERE SID='{$_POST["sid"]}' AND CLASS='{$_POST["class"]}'";

Manipulation "management Database (SQL using "view_teachers.php page"):
$sql="SELECT TID,TNAME,QUALIFICATION,GENDER,SALARY,IMG
                                        FROM teacher";

5.2 Technical Tools used:

The technical tools used in this project are as following:

* ❖ HTML
* ❖ CSS 5
* ❖ PHP
* ❖ JavaScript
* ❖ jQuery
* ❖ Database (MySQL)

CHAPTER 1: CONCLUSION

The Student Management & Result Processing System deals with all kinds of student details, academic related record and other resource. This system tracks all the details of a student from the first day to the end day of his/her. Our project is only a humble venture to satisfy the needs in an institution.