M.V.P. Samaj's.

G.M.D. ARTS,B.W. COMMERCE & SCIENCE COLLEGE, SINNAR.

DEPARTMENT OF COMPUTER SCIENCE

A PROJECT REPORT ON

"Student Result Management System"

Submitted by:

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Savitribai Phule Pune University
2022-2023

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CERTIFICATE

This is to certify that,

Khule Sonali Sunil
Khule Swati Arun
Palde Snehal Shrikrushna

Student of B.Sc. Computer Science has satisfactory completed Project work on **"Student Result Management System"**, towards partial fulfilmentof degree course affiliated to Savitribai Phule Pune University for the Academic Year 2022-2023 at G.M.D. ARTS, B.W. COMMERCE & SCIENCE COLLEGE, SINNAR.

13/4/23

Project Guide
(Smt.N.V.Lahamage)

13/4/23

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1.Abstract

The Student Result Management System is a web based program that was created toKeep track of students grades. The server side language in this program is PHP, Theback-end design is My-SQL and PHP, and the front end tools are HTML, CSS and Javascript.

Since SRMS is a computerized examination result management system for tertiary students examination records, the project intends to automate semester result management process and tasks as a tool for eliminating manual work, dispensing us with maximum optimization that prevents both students and administrators from accessing the results. The goal of the project is to communicate the exam result to the student in a straightforward manner. As a result analyst we may let student look at the outcomes by providing subject status. Student can utilize the system with privilege to read and execute their results by providing user names and passwords for a secure login.

There some main goal of this project

- Better way to access information
- Creative and logical thinking
- Searching facilities on result, student, course, exam, etc.
- Efficient result management
- Description of the result and the student

2.Introduction

Introduction to system:

Student Result Management System is a web-based application that mainly focuses on providing the results to the student and the faculty. In this project first of all we have focused on selection of appropriate topic for micro project. Then we start gathering information from some reference books, Internet, and e-notes about the topic of micro-project. After that we filtered all information from gathered information about form controls and functions. Then we have done program code & check it out from our subject teacher. We have also done some required changes as per the suggestions of subject teacher. Then we have finalized our program code. The contents of micro-project by adding references & conclusion. By following all above methodology, we have successfully done our micro-project.

We have design a form in that form we have to take student details (eg. student name, DOB, gender, school/college name etc.) and when we click on submit button then it will show the result of that particular student. We have used XAMPP server for running our program code successfully.

2.1 Motivation:

In computer science a design analysis of algorithm is a particular way of organizing data in a computer so that is can be used efficiently .it can implement on or more particular abstract data types which are the means of specifying the contract of operations & their complexity in comparison it is a concreate implementation on the contract provided by an ADT data structures provided in means to manage large amount of data efficiently for uses such as large databases and internet indexing services.

The information of a data structures usually requires writing a set of procedures that create and manipulate instances of that structure.

2.1 Motivation

with the intelligent development of the society and the development of the big data exa, the network intelligence applications in various fields have deeply penetrated them, and Colleges and universities, as the place where information technology is most widely used, have been profoundly affected by the network intelligence. So as to improve the motivation. of college student result management System through intelligence, massive data collection and provide sufficient technological guarantee for college management

2.1 Motivation

In computer science a design analysis of algorithm is a particular way of organizingdata in a computer so that is can be used efficiently. Student report generator is a webbased application designed and engineered for colleges that need to manage resultsacross multiple branches students that need to track, manage and report results. Thisapplication can run on any kind of operating system. At a time we can see all the yearsresult in a single sheet and we can see the individual candidate's results separately.Day to day processes with these systems can be managed in a much efficient way.

These systems give a unified view that helps the user to perform activities. It alsohelps remind which activities an individual needs to perform and which of them arealready done.

2.2Problem Statement:

Using manual system to manage the students which are records all information and in the book or paper was causing the job of the teachers becomes more and troublesome. The record in the have a possibility missing or destroy when happen any accident. While now already have the school use the computer to manage the student information, but both of the systems they use are already out - dated. The system they use all are standalone and separately, one system only has one function. This was cause teacher harder to use all the system on the same time. The separately system without connection with each other also cause the same data and information the needed key in in every system. Besides that, the system that using also does not have the communicate Platform for the parents to communicate with the parents. This will cause the interaction between teachers and parents become less.

2.3 Purpose/Objective and goals:

- Provide better way to access information.
- To developed a creative and logical thinking.
- To provide the searching facilities on Result, Student, Course, Exam
- To increase the efficiency of managing the Result. Progress
- Shows the information and description of the Result, Student.

2.4 Literature survey:

Generating and organizing data in a useful way is called data processing. In his paper, stated that the errors associated with the existing manual method of processing of students results in most universities in Nigeria, make it not only desirable but imperative that computerized approach be used in measuring student progress. According to him, the manual methods being employed suffer a number of setbacks; they make the process to be time consuming and prone to error. They lead to examination results being published late, sometimes with wrong grades being entered and student GPAs being wrongly computed. This could lead to wrong conclusions in the awarding of class of degree.

2.5 Project Scope and limitation:

Scope:

(1) Using computerized system, Time accuracy facts are considerable changed.

(2) To make existing system friendly.

(3) Fast and efficient information accessed.

(4) Easy to run on browser.

Limitation:

(1) User can have required any browser without browser user cannot run project.

(2) Internet may be required.

3.System Analysis

3.1 Existing System:

The existing System of Student Result Management System was manual. All the activities related to the result is carried out manually and the information are maintained in the web page in different elements. This project is developed by using such language like PHP. User can run this project by using different browser like (Internet explorer, Google chrome, Mozilla Firefox, etc.

3.2 Scope and limitation of existing systems:

As the system is manual, the user finds difficulties to performs accurate and reliable computation.

1. **Redundancy of data: -**Due to improper maintenance of data, inconsistency is there which leads to problem like duplication of data.
2. **Difficulty in updating the data**:-Problem in updating the data in the existing system since everything is stored in registers or files. It is very difficult and time consuming to update it.

Non-centralized data:

In the existing system, data records are kept under file maintenance system due to this system the placement of the data is not at one particular place. This results in more confusion and more consumption of time for the maintenance of records.

3.3 Project perspective, features:

In near future, the system interface could be improved, with more attractive, interactive and meaningful images; enhance the system with an email and SMS or email notifications. Enhance the current system by computerizing almost all the services provided by the institution, turning it into a complete LMS. And evolve the system by developing several versions through user's feedback. if a complete solution has not been worked out.

3.4 Stakeholder:

- Admin
- Student

3.5 Requirement analysis:

Functional requirements for the purposed system which define the fundamental actions of the system contain all the information of the software requirements for the development of the student result management system for project.

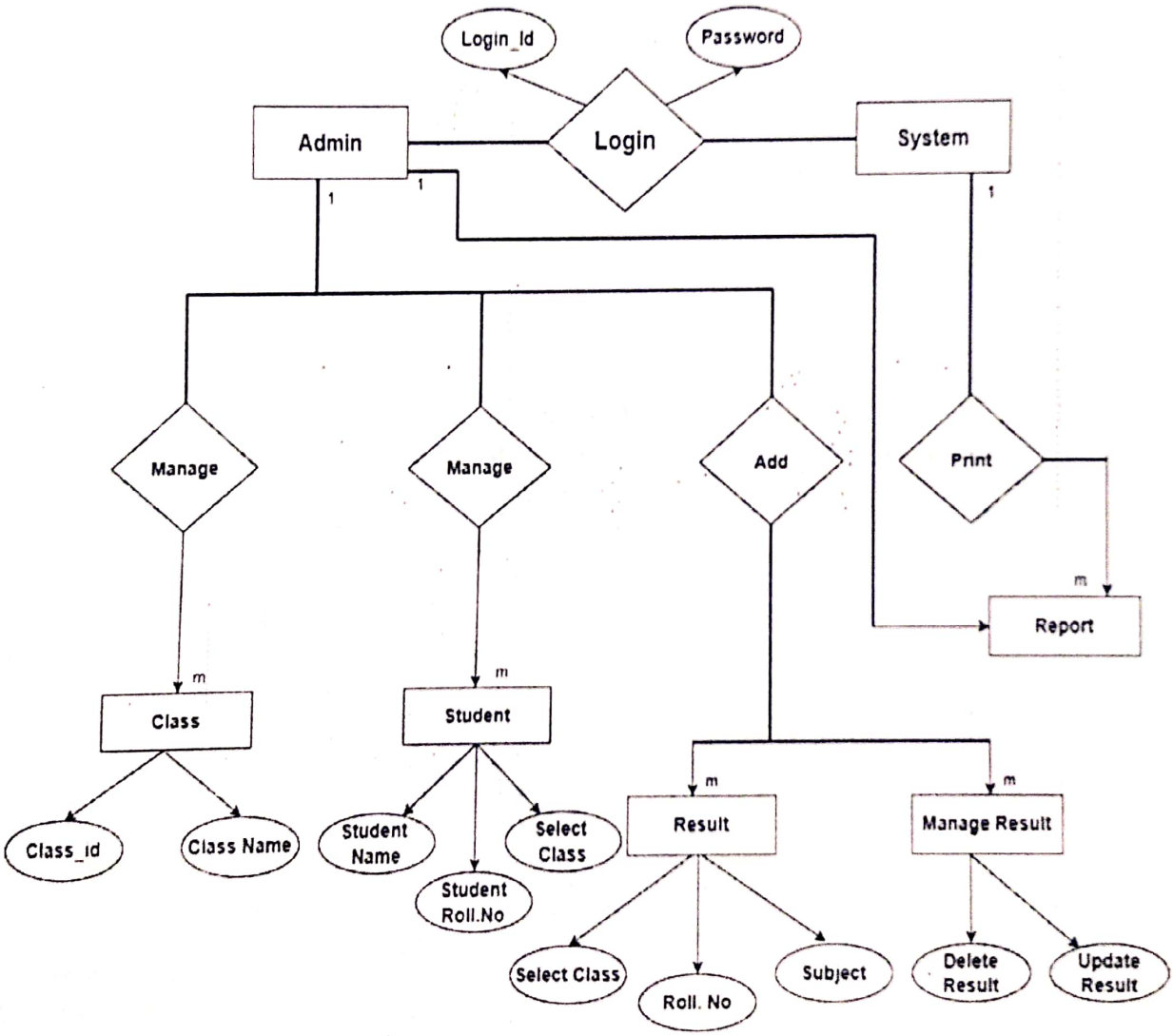
4.System Design

4.1 Design Constraints:

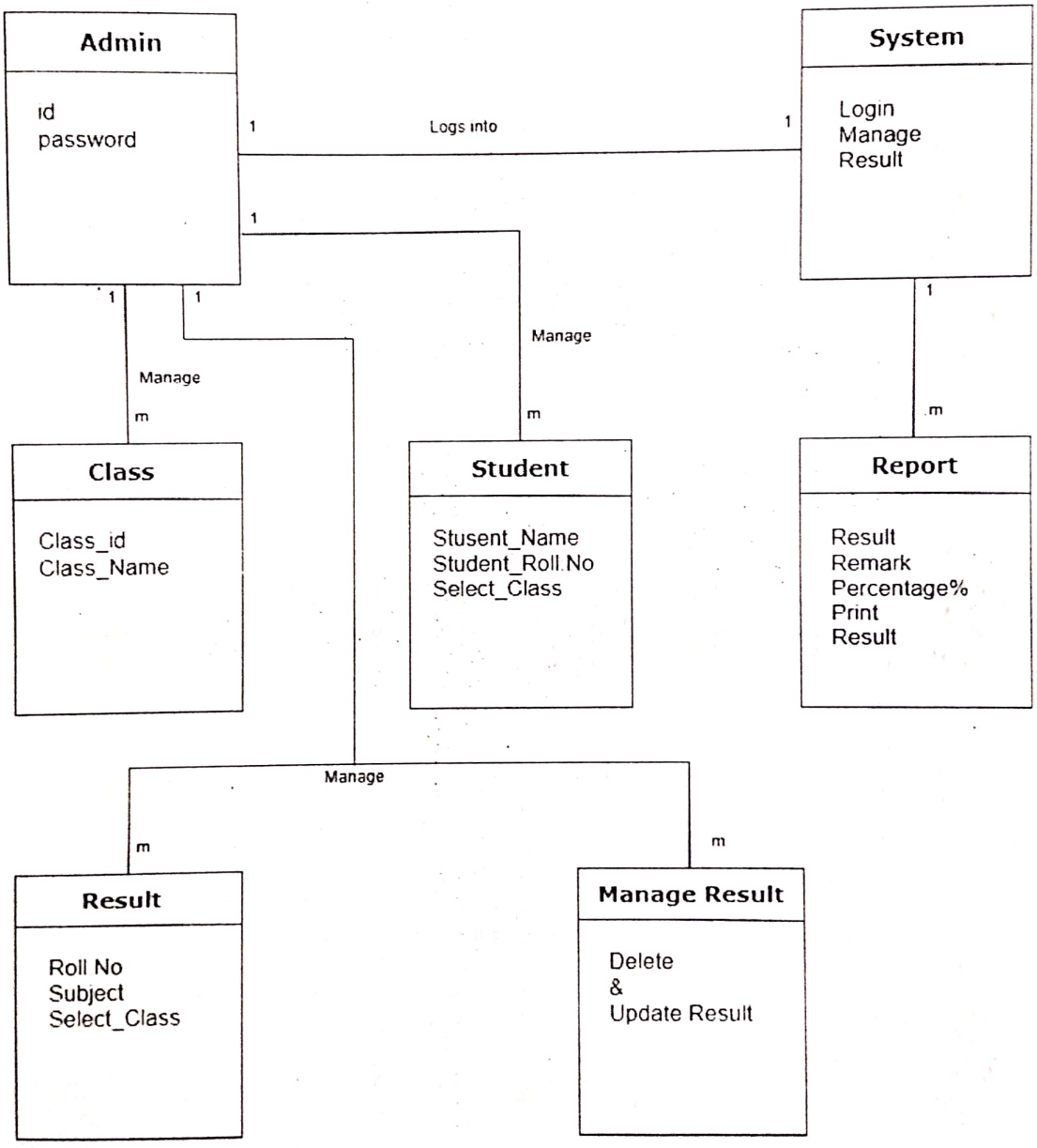
Common Diagram Containing Following- The Symbols used in ER diagram are as follow: ER Diagram describes data at rest, data being stored. Data relationship is the relation between the entities. Entity is an object that exist and its distinguishable from other objects. ER diagram shows data at rest. This means ER diagram does not show data flow.

4.2 System Model

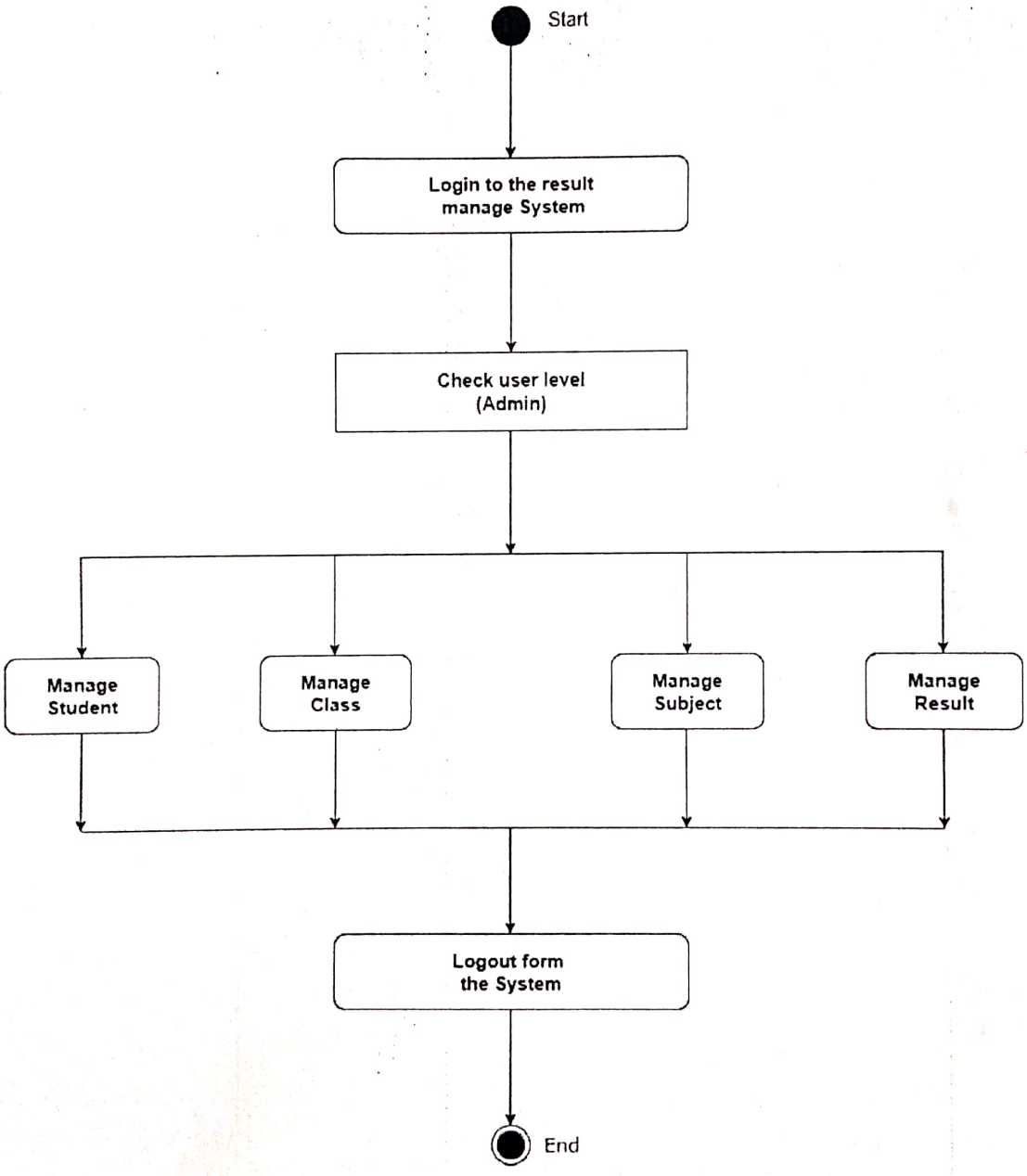
➢ ER Diagram -



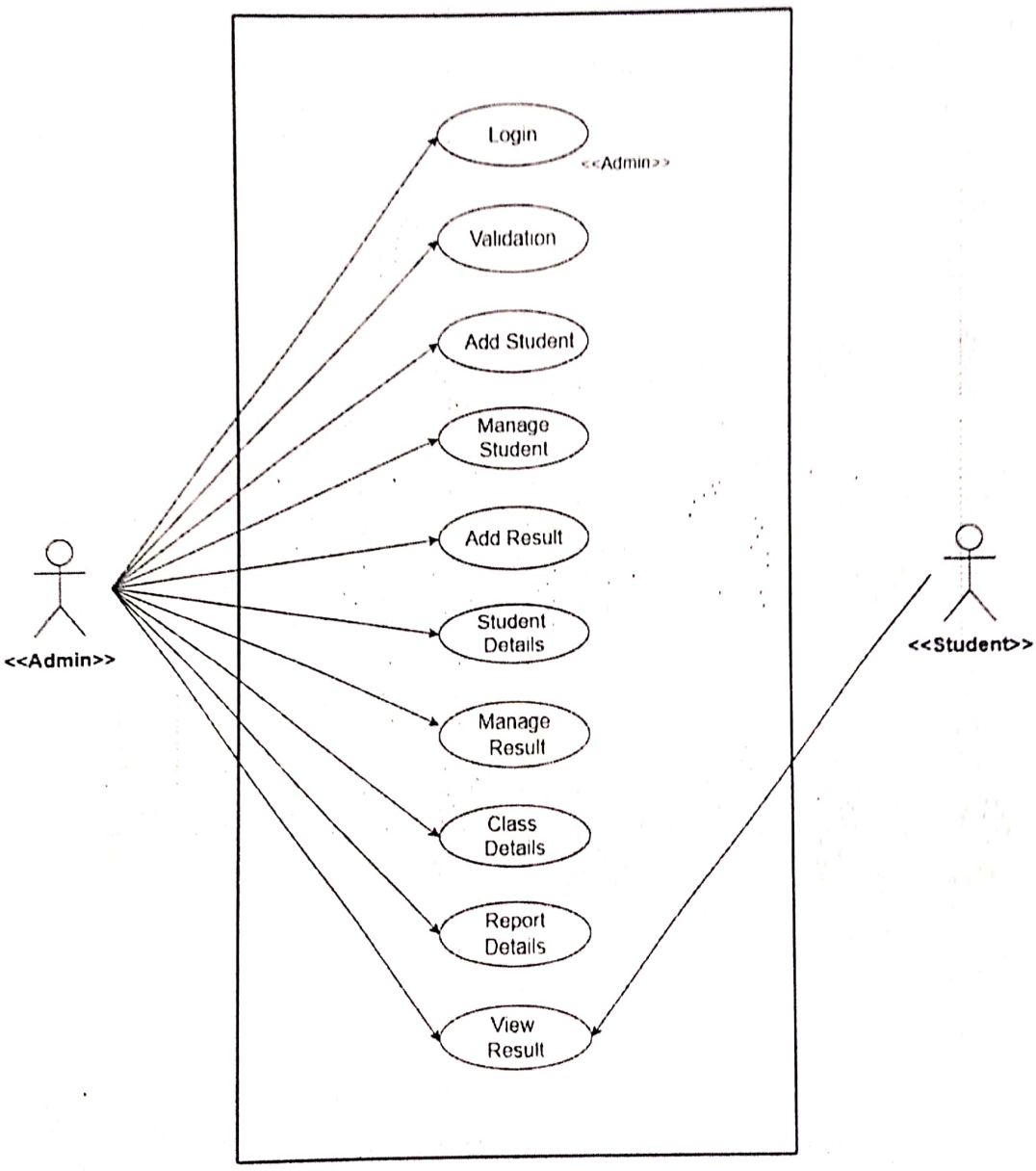
➢ Class Diagram -



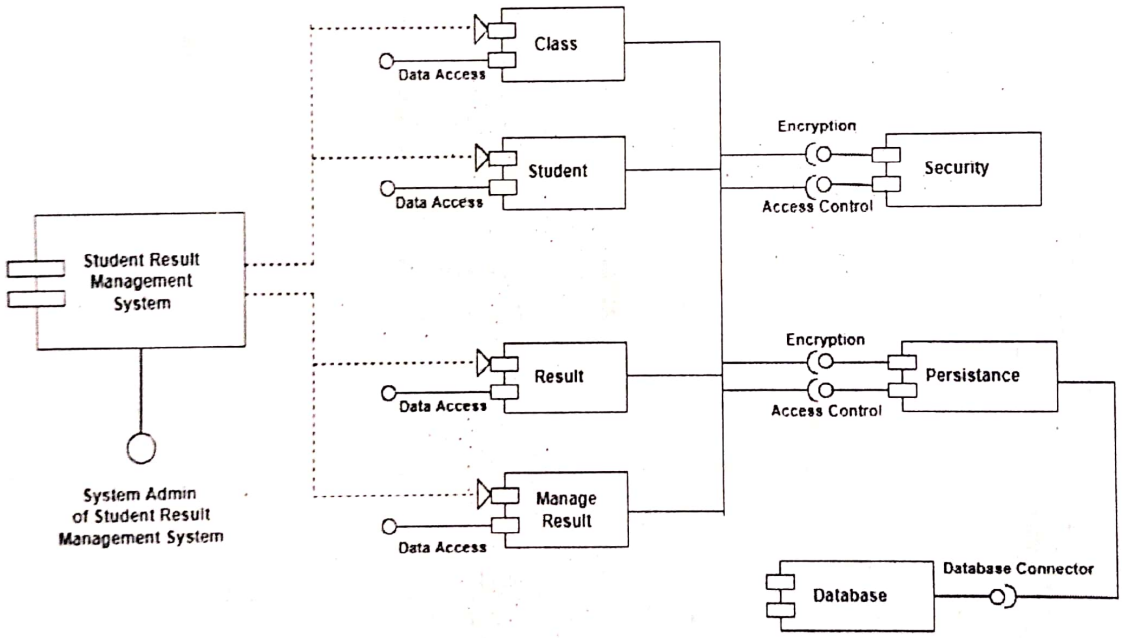
➢ Activity Diagram -



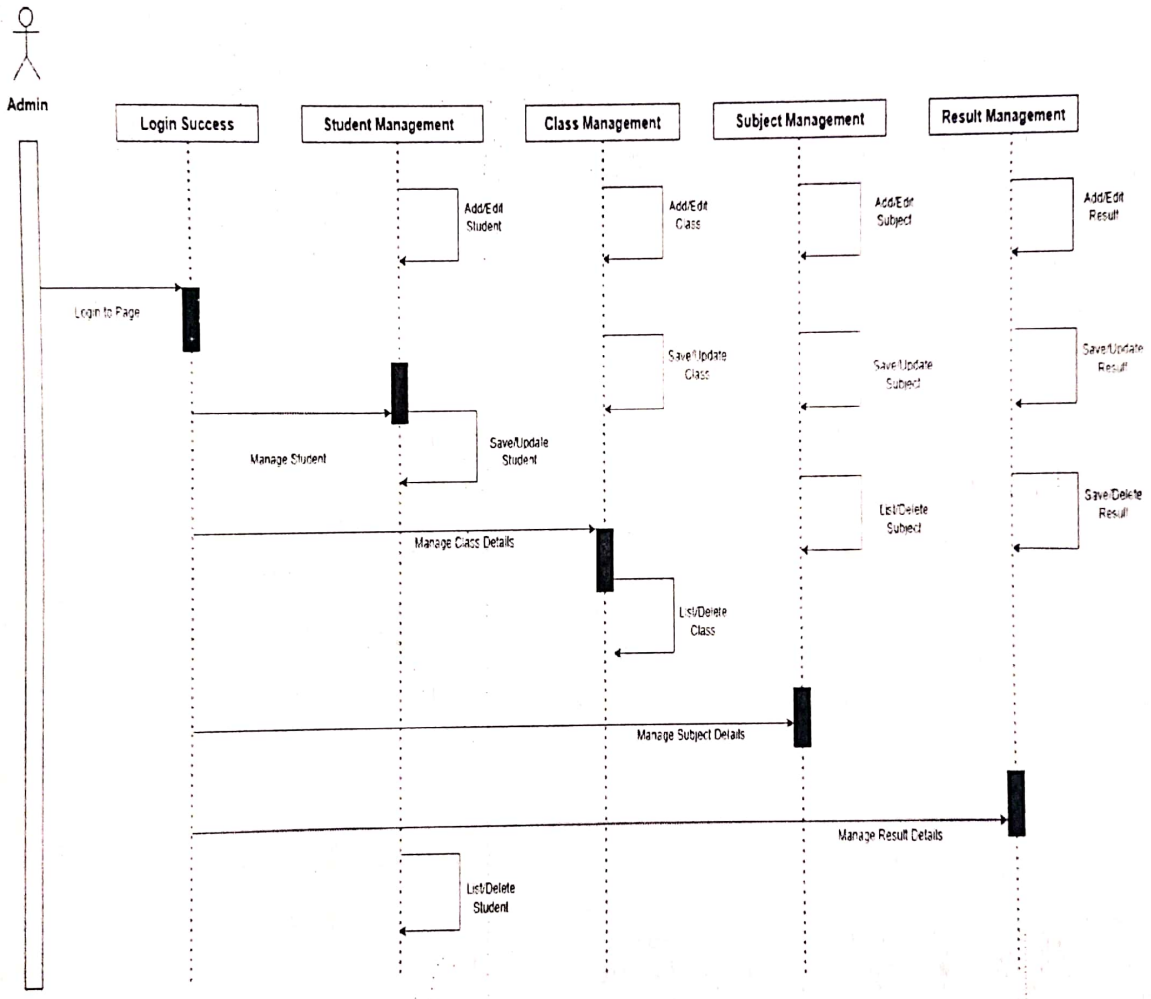
➢ Case Diagram -



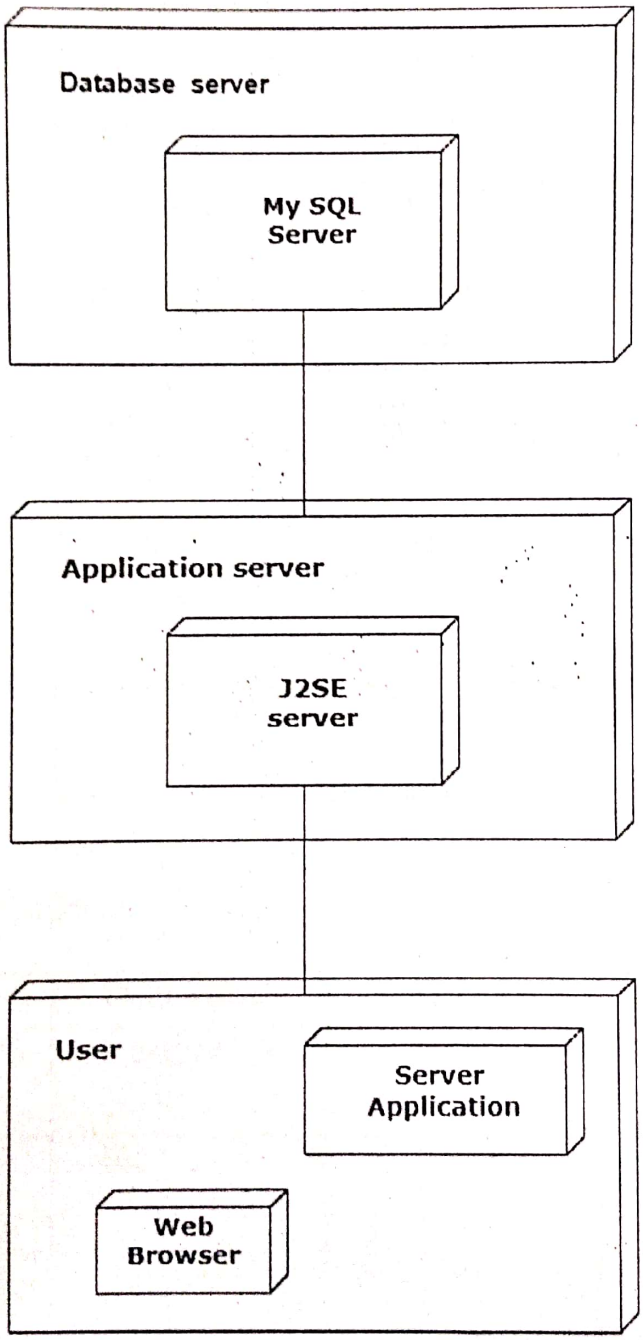
➢ Component Diagram -



➢ Sequence Diagram -



➢ Deployment Diagram -



4.3 Data Model:

1) Table 1 – Admin:

Field	Data Type	Size	Key
Id	Varchar	30	Primary Key
Password	Varchar	30	Not Null

2) Table 2 – Class:

Field	Data Type	Size	Key
Name	Varchar	30	Primary Key
Id	Int	3	Primary Key

3) Table 2 – Student:

Field	Data Type	Size	Key
Name	Varchar	30	Primary Key
Roll. No.	Int	3	Primary Key
Class Name	Varchar	30	Not Null

4) Table 2 – Result:

Field	Data Type	Size	Key
Name	Varchar	30	Not Null
Roll. No.	Int	3	Not Null
Class	Varchar	30	Not Null
Paper - 1	Int	3	Not Null
Paper – 2	Int	3	Not Null
Paper – 3	Int	3	Not Null
Paper – 4	Int	3	Not Null
Paper - 5	Int	3	Not Null
Marks	Int	3	Not Null
Percentage	Float	-	Not Null

4.4 User Interface:

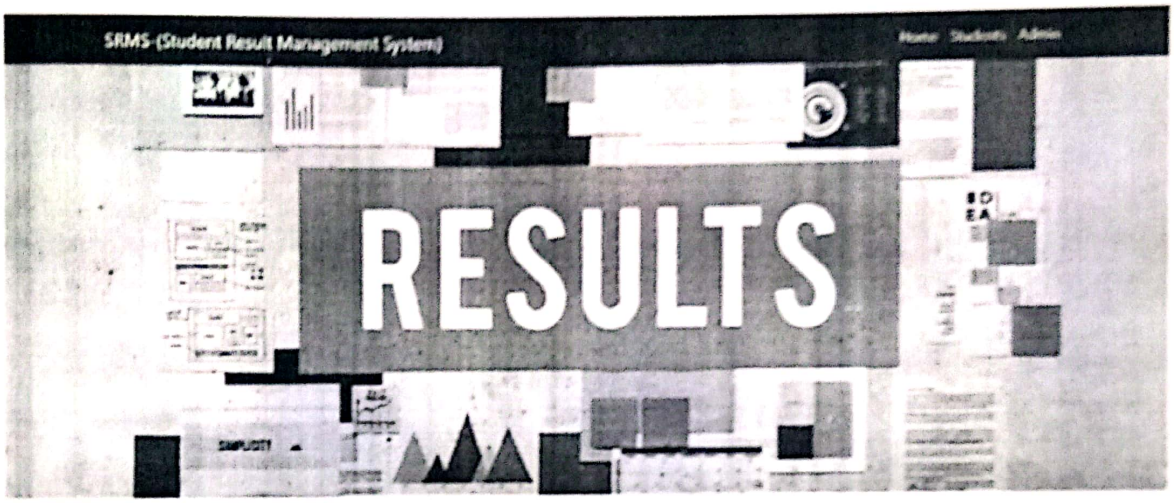
There are following User Interface:

• Client User Interface:

A User Interface, which is also called as "UT" or simply an "interface". Is the means in which a person controls a software application or hardware device. A good User Interface provides a "User friendly" experience, allowing the user to interact with the software or hardware in a natural and intuitive way.

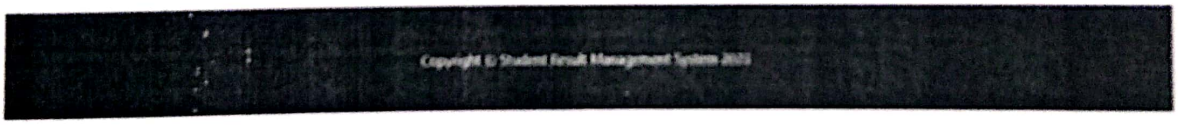
Output Screen :

- HOME

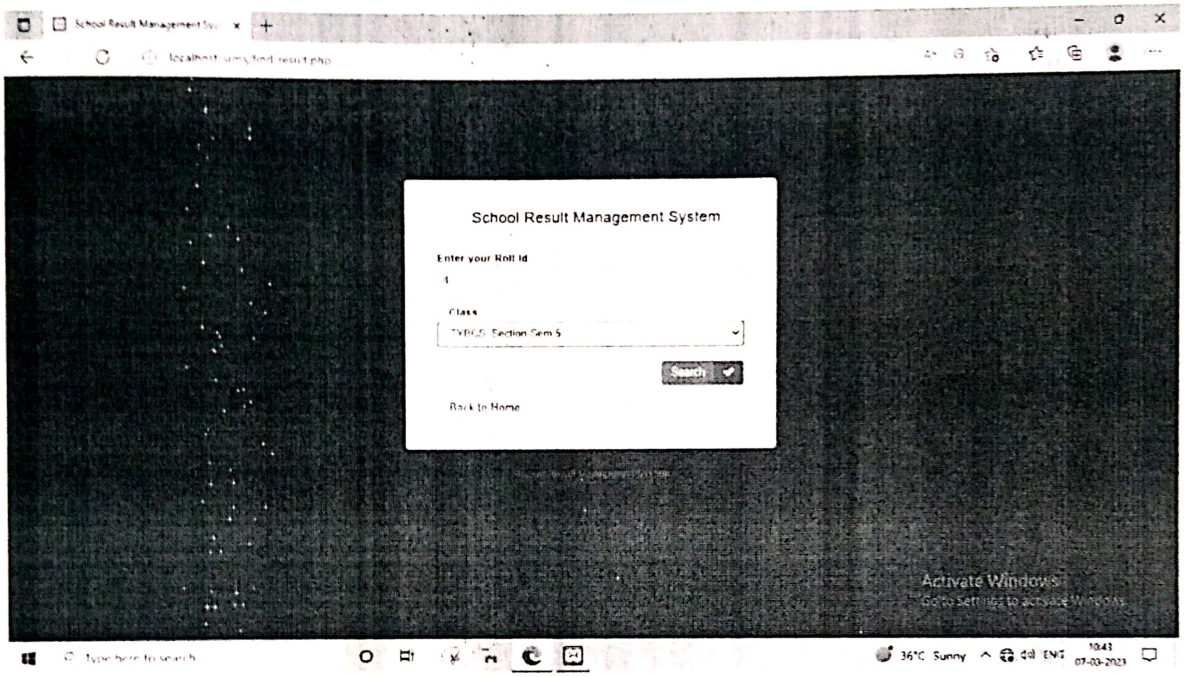


Notice Board

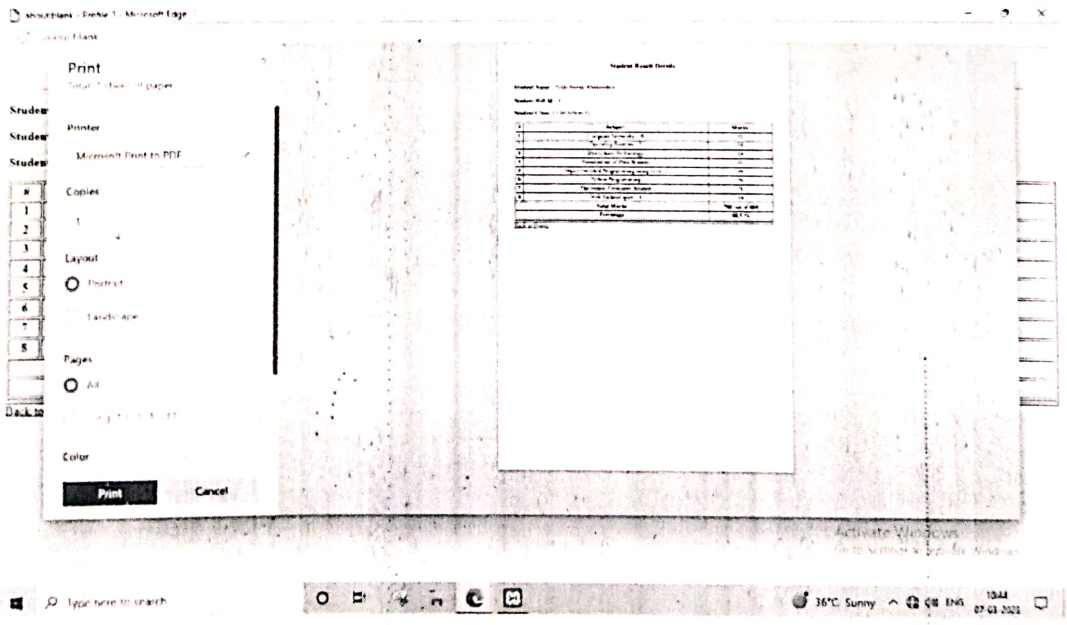
- Notice regarding result Declaration
- Test Notice



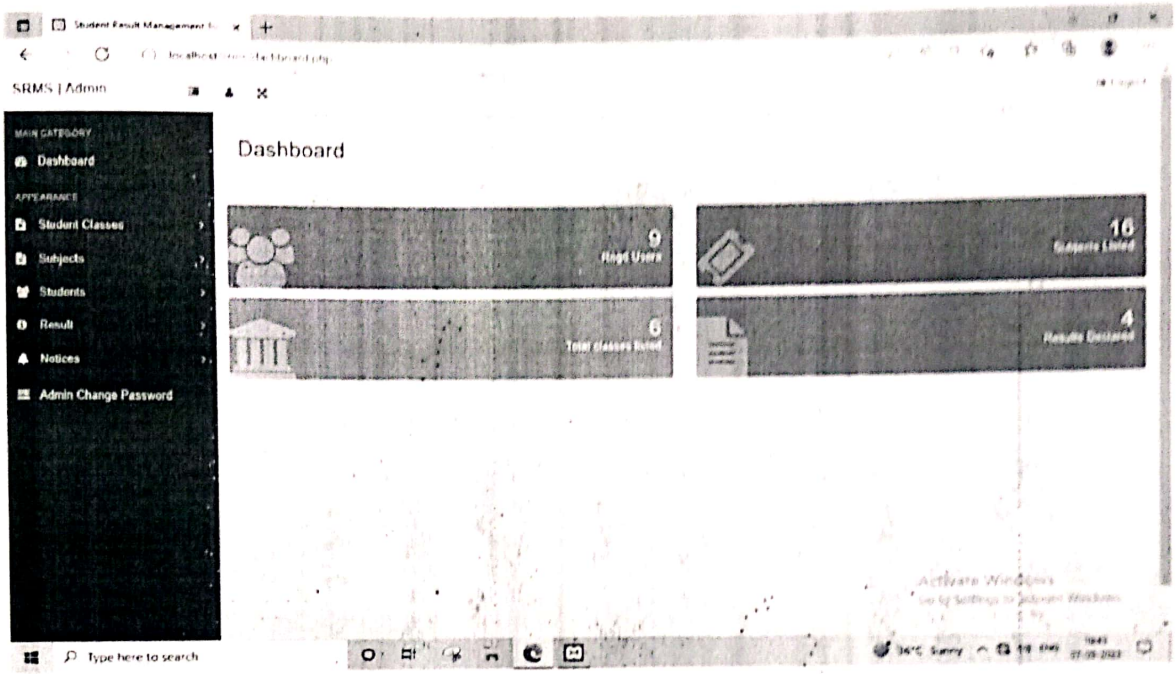
➢ Find result



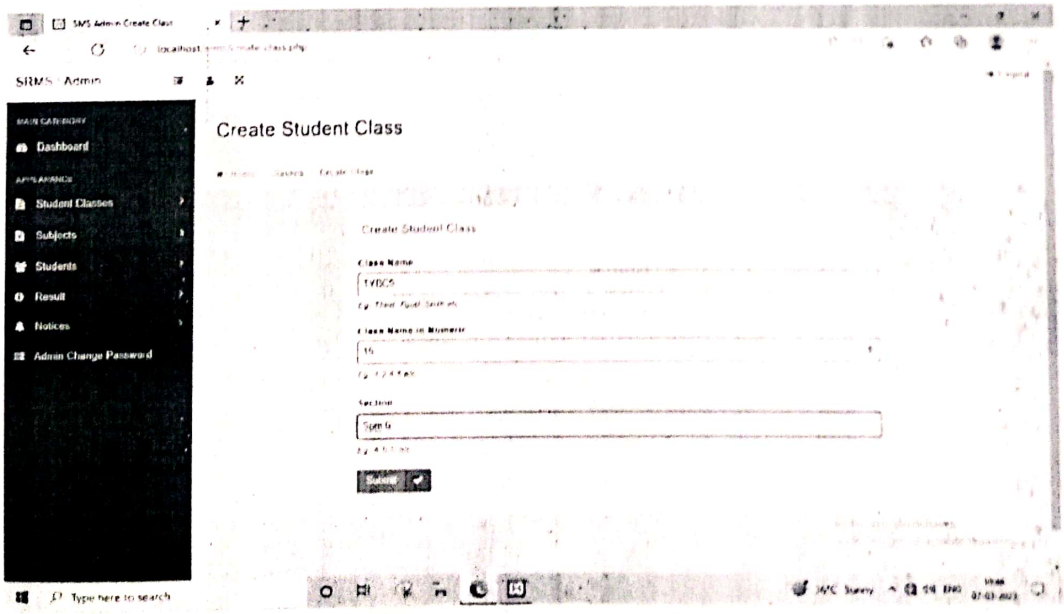
➢ Admin Change Password



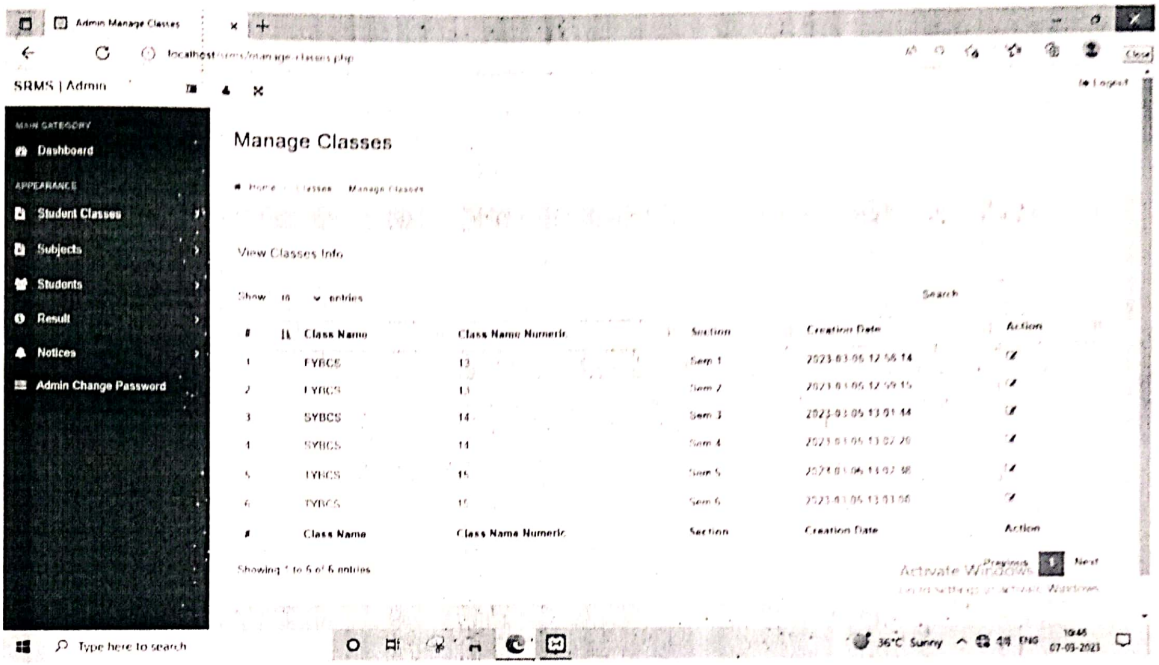
➢ Admin Dashbaord



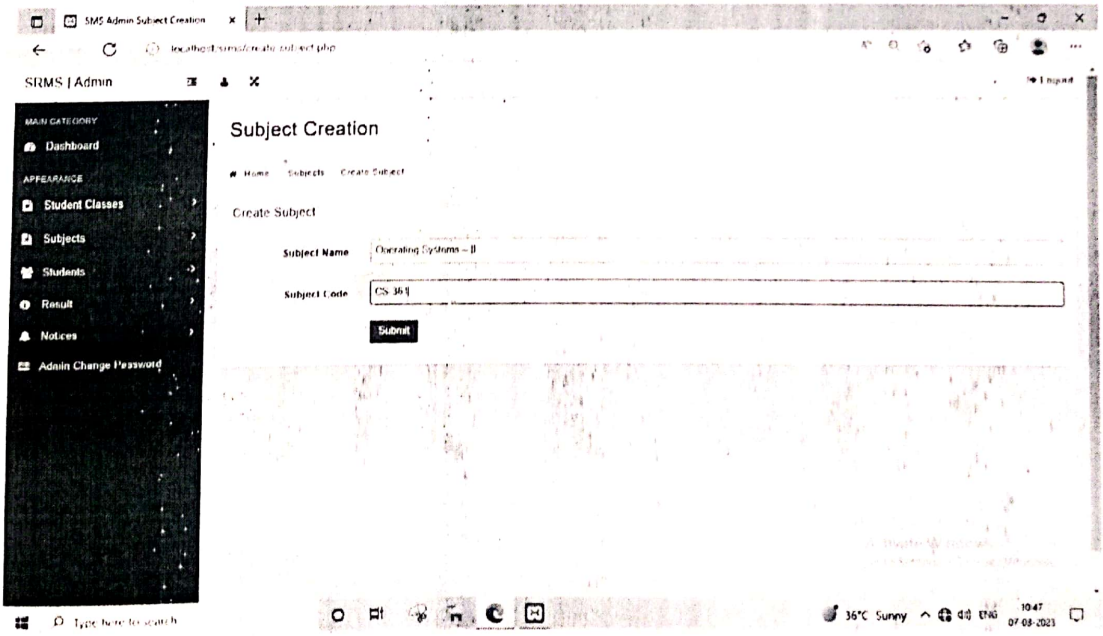
➢ Create Student Class



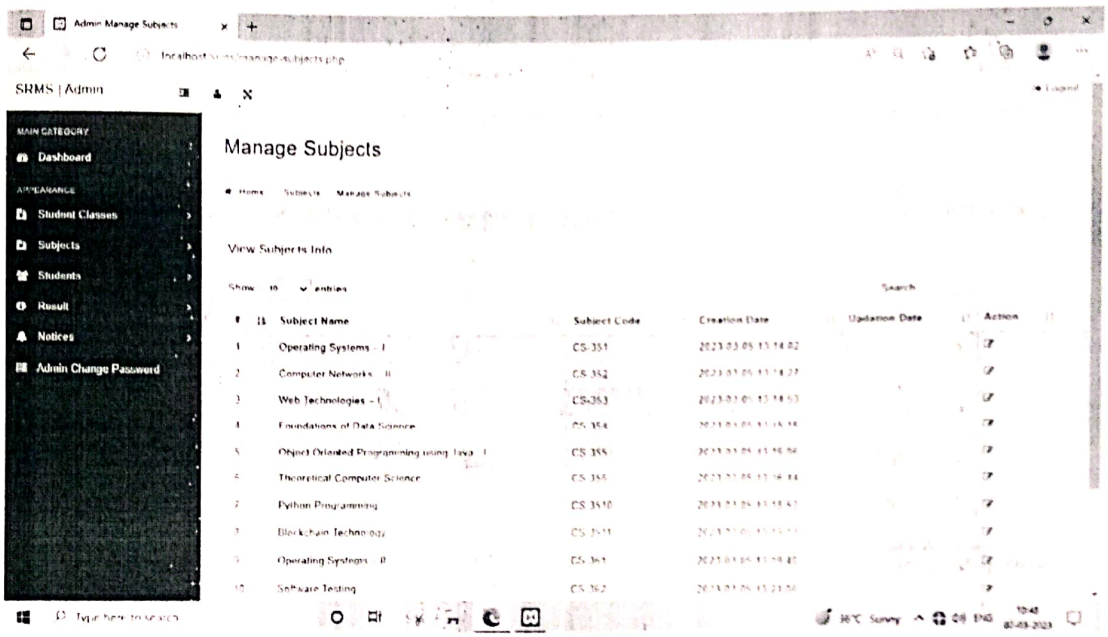
➢ Manage Classes



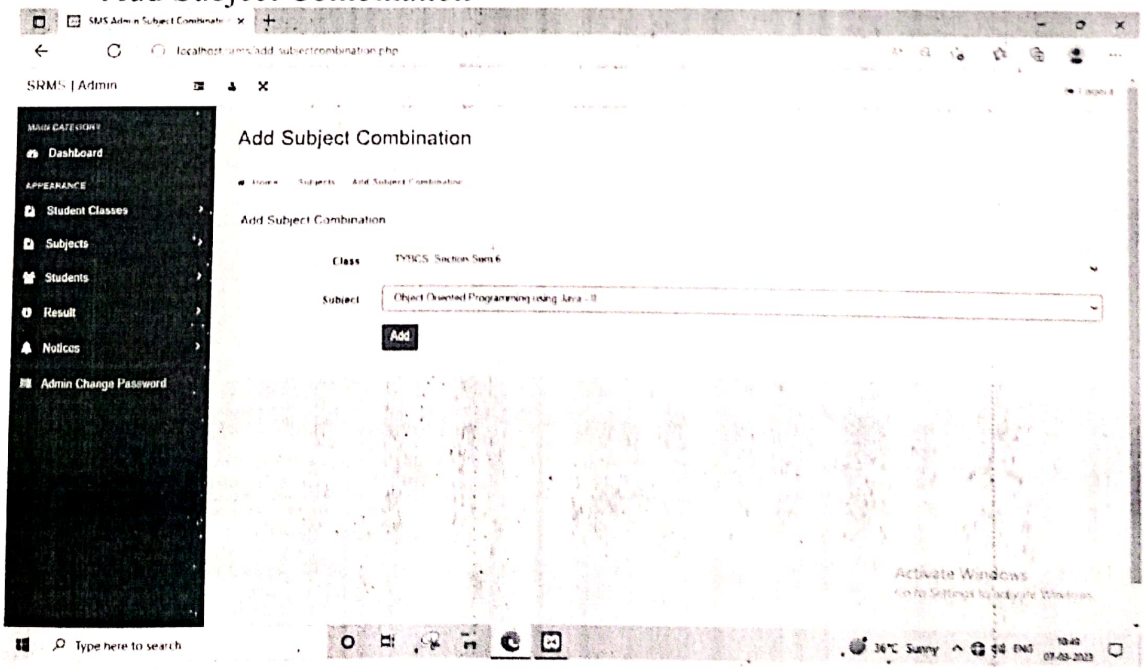
➢ Create Subject



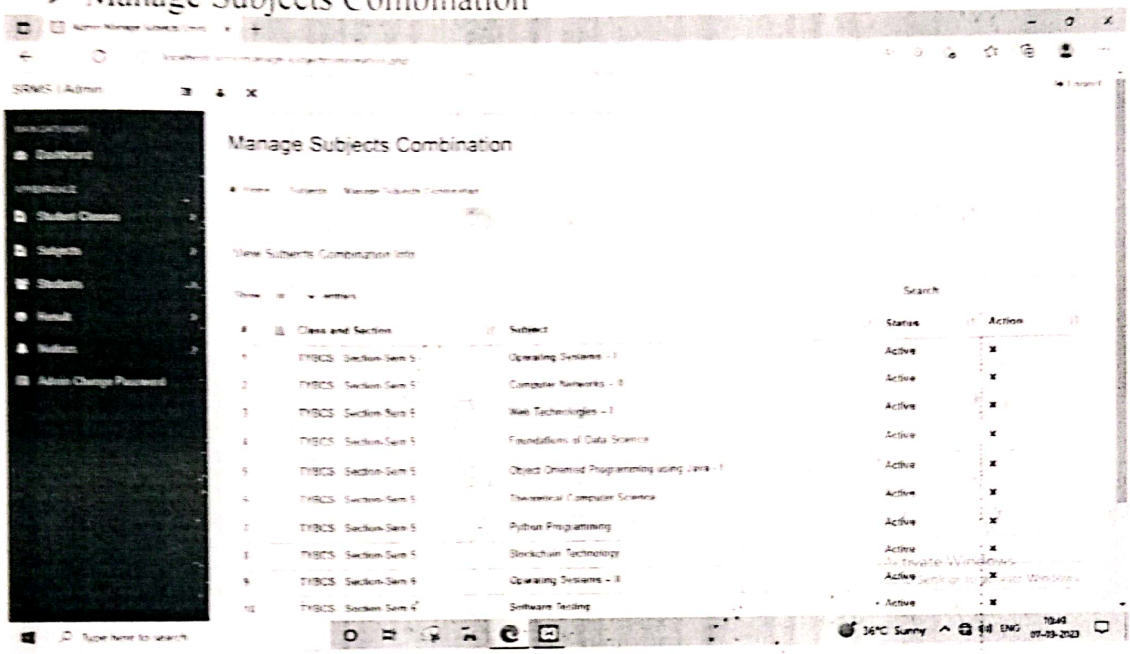
➢ Manage Subjects



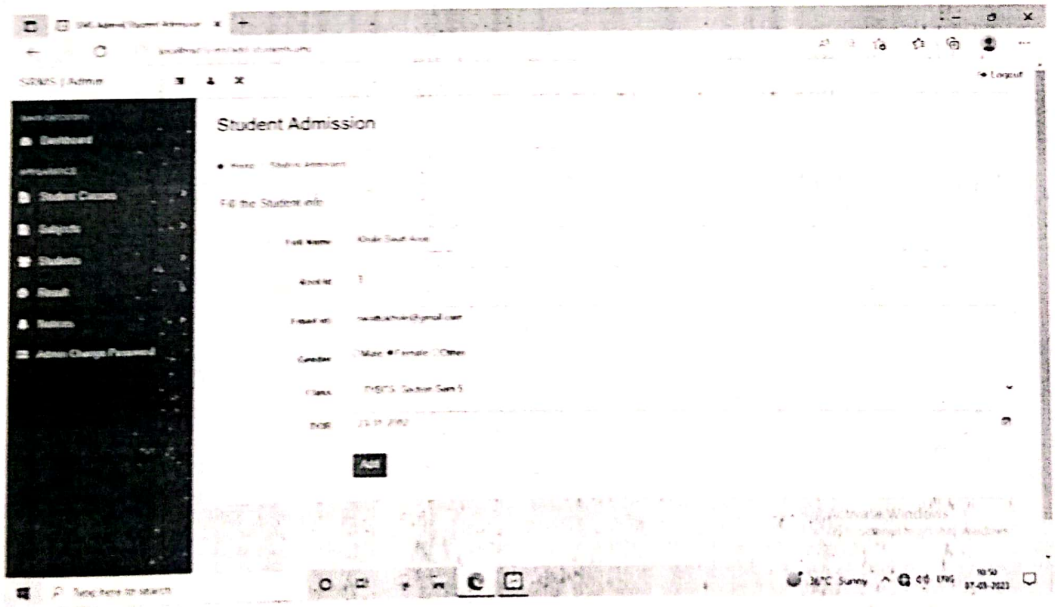
➢ Add Subject Combination



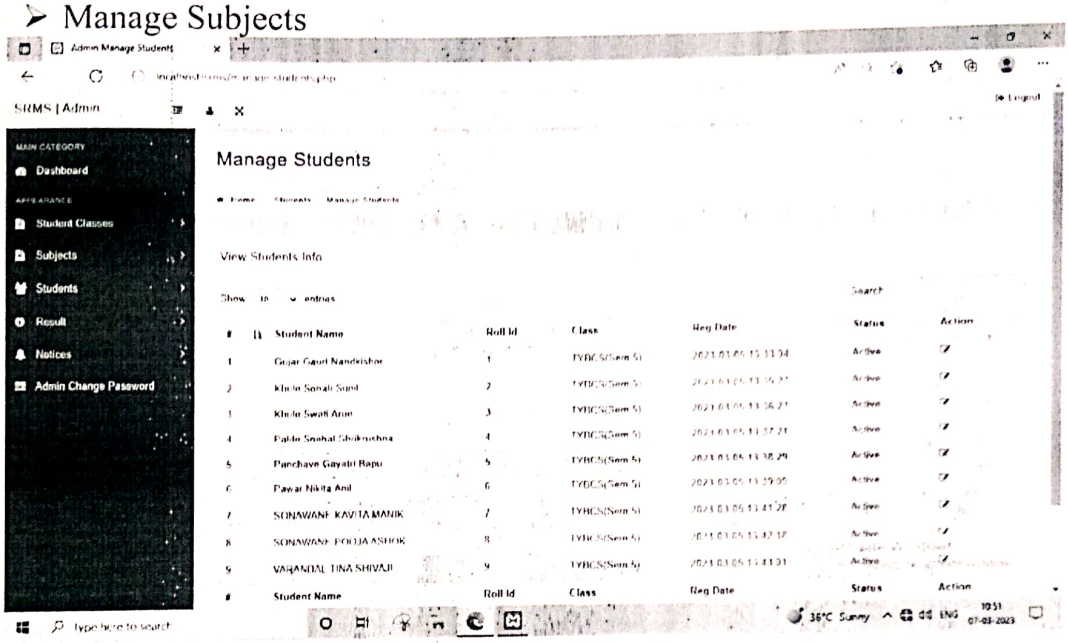
➢ Manage Subjects Combination



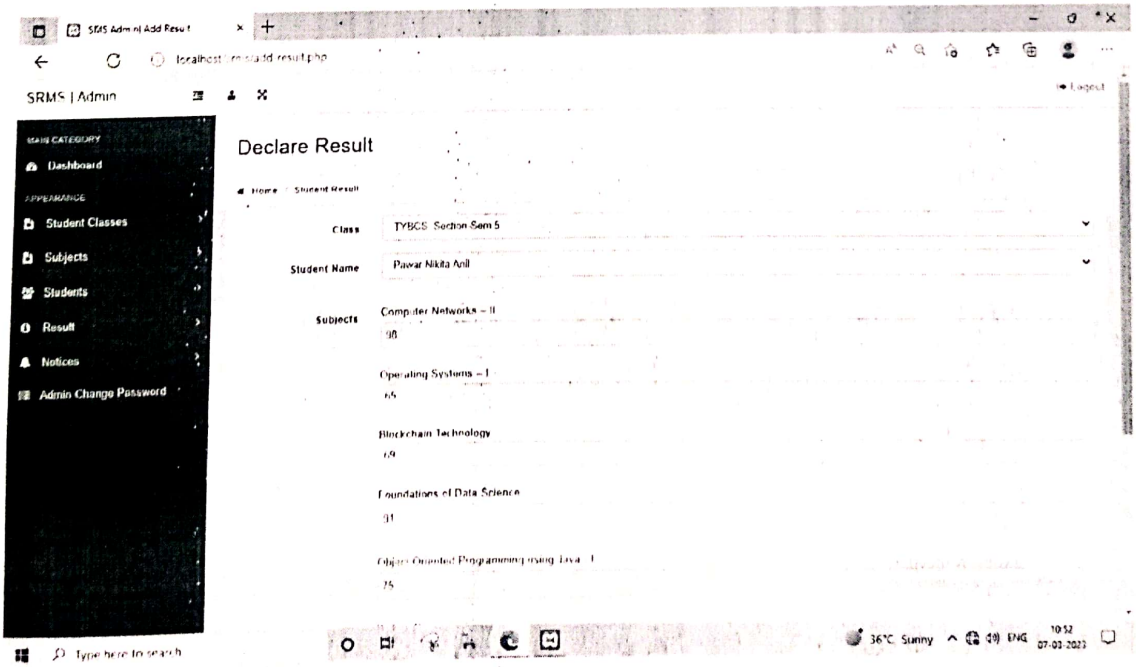
➢ Subject Admission



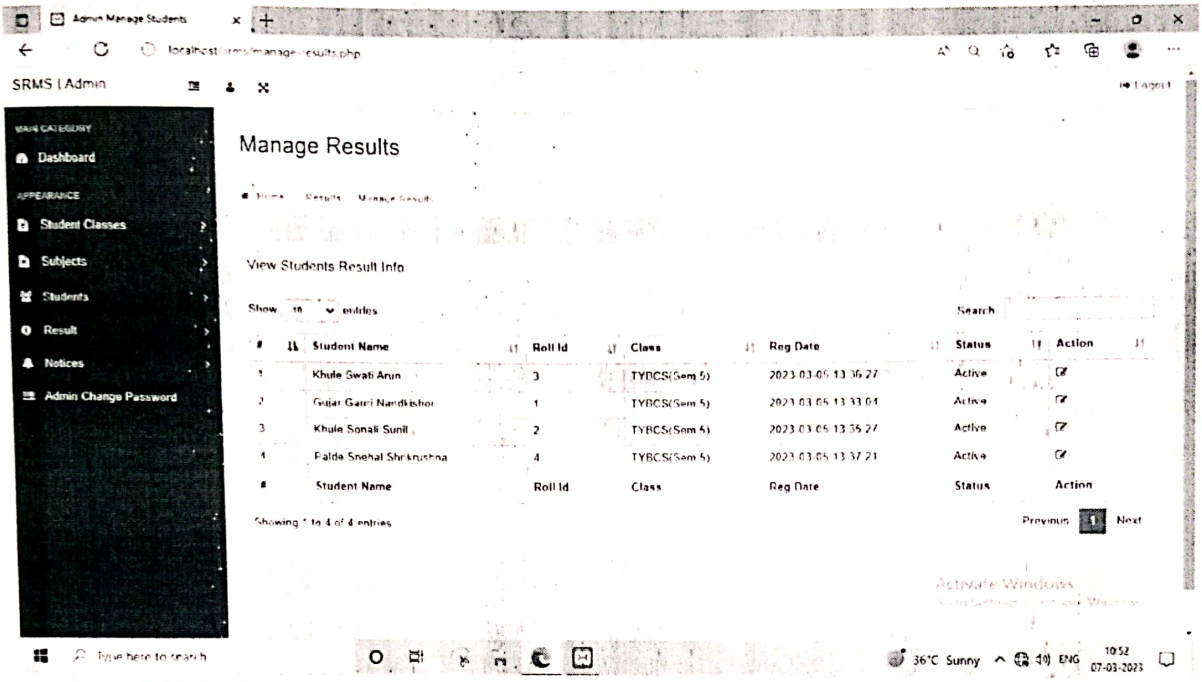
➢ Manage Subjects



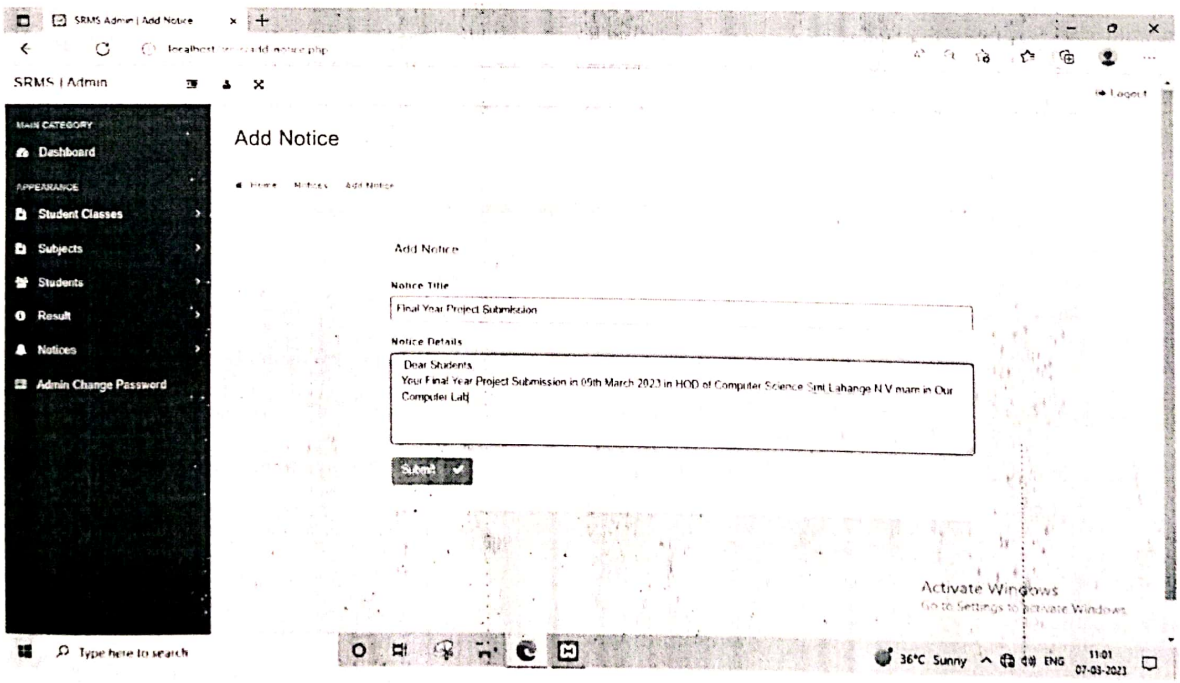
➢ Declare Results



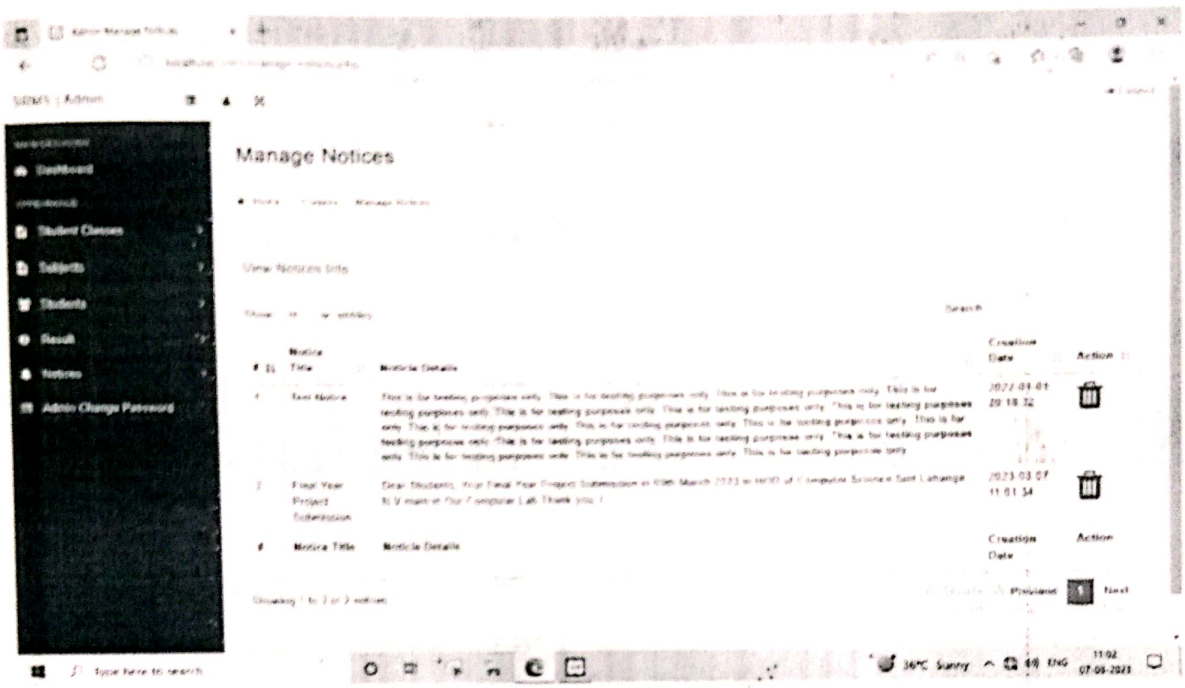
➢ Manage Results



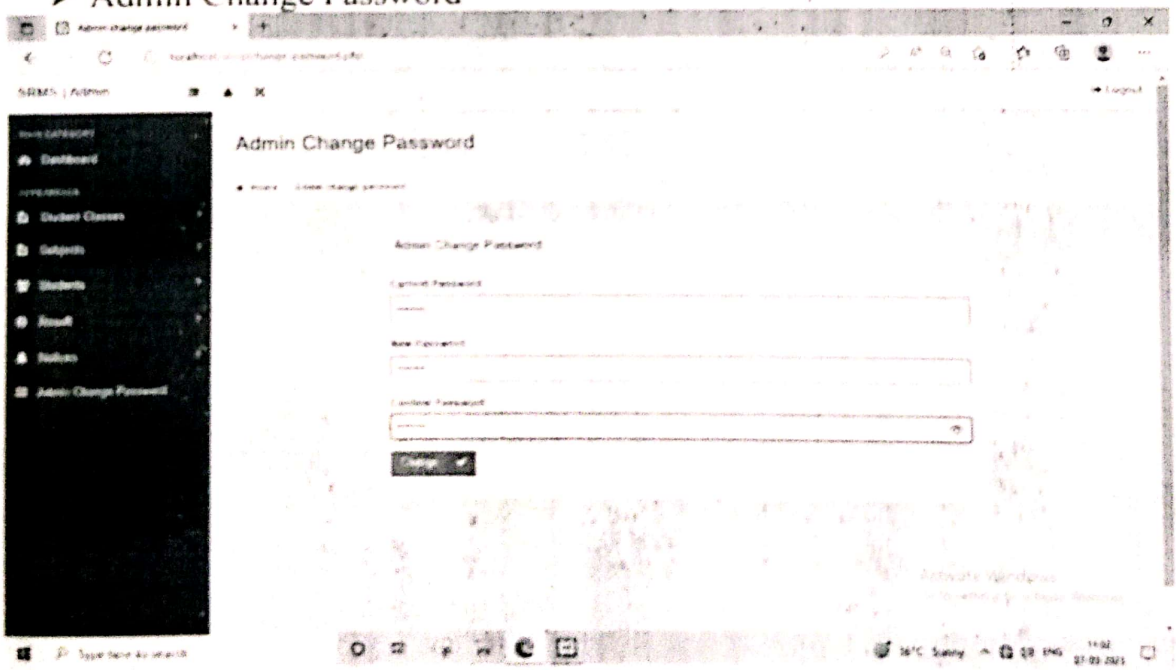
➢ Add Notice



➢ Mange Notices



➢ Admin Change Password



5.Implementation details

5.1 Software and hardware specification: -

Software: -

(1) Google chrome (using runtime the project).

(2) Notepad (used as editor).

(3) Internet explorer (using runtime).

(4) MsWord.

(5) 64-bit Windows Operating System.

Hardware: -

(1) HP Pavilion laptop (used as server).

(2) DESKTOP-8M8NEI

(3) Ram.

(4) mouse.

(5) keyboard

6.Outputs and Report Testing

Test plan: -

The project test plan is a document that outlines for project stakeholders the product functions to be tested, what specific tests will be performed, the approach to be taken for those tests, what to test and what not to test, how the tests will be performed, who will be responsible for performing each test, what results are expected. Testing is vital to the success of the system. Testing is the process of executing a program with the explicit intention of finding errors that is making the program fail. The tester maybe an analyst, programmer or a specialist trained for software testing.

Black box testing: -

The black box is a powerful technique to check the application under test from the user's perspective. Black box testing is used to test the system against external factors responsible for software failures. This testing approach focuses on the input that goes into the software, and the output that is produced. The testing team does not cover the inside details such as code, server logic, and development method.
Black box testing is based on the requirements and checks the system to validate against predefined requirements.

White box testing:

White box testing refers to a scenario where (as opposed to black box testing), the tester deeply understands the inner workings of the system or system component being tested. White box testing is a type of testing where the tester can see the code. The main purposes of this type of testing are to test the inner workings of the software, as well as strengthen its security, and improve its usability and design.
This is also known as structural testing as the tester chooses which inputs to test and follows their paths through the software to reach their expected outputs. White box testing is used in the unit, integration and

7.Conclusion and Recommendation

This project is designed to meet the requirements of Student Result Management. It has been developed in PHP keeping in mind the specification of the system. For designing the system. we have used simple data flow diagrams. Overall the project teaches us the essential skill like using the system analysis and design techniques like data flow diagram in designing the system.

8.Future Scope

Different people, place, from different departments can view the same information about student Result, Information. To enable the head and technical supporting group to access the system from anywhere. To enable the student evolution with giving online exam and get the result spot.
on the

9.Bibliography and References:

(1) www.google.com

(2) www.wikipedia.com

(3) www.w3school.com