

A Mini Project Synopsis on

Student Result Processing Management System

S.E. – Computer Science and Engineering-Data Science

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CERTIFICATE

This to certify that the Mini Project report on **Student Result Processing Management System** has been submitted by **21107036(Aman Dhumal),21107053 (Om D Jondhale)** and **21107021 (Rahul Gangurde)** and **21107058 (Prathamesh Babar)** who are a Bonafede students of A. P. Shah Institute of Technology, Thane, Mumbai, as a partial fulfillment of the requirement for the degree in **Computer Science and Engineering(Data Science)**, during the academic year **2022-2023** in the satisfactory manner as per the curriculum laid down by University of Mumbai.

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CHAPTER 1

INTRODUCTION:

An individual report card of each student has to be displayed at a keystroke according to any selected format. An important aid for teachers and students to judge their performance. Merit list printing by totals for a class by individual subject marks for a class. Student performance in a particular subject or all the subjects must be expressed. Performance of teachers of various classes can be easily compared.

1.1 Purpose

The system displays the list of all issues that are open, closed, in progress. If the user can get registered by clicking on the login button and provide the required information as specified. Each time the registered customer come on to the site he can makes use of the user name and the password that is allocated to him

1.2.Objectives

- User configurable grading system.
- User configurable student information.
- Examinations-marks handling.
- Calculated all marks handling.
- Passing or failing will be shown .
- All Information will be displayed on one page .
- Different subject mark entry handling.

1.3.Scope

The application will manage the information about various students enrolled in this course in different years, the subjects offered during different semesters of the course, the marks obtained by the various students in various subjects in different semesters. The application will greatly simplify and speed up the result preparation and management process.

1.3.1. Existing System with Limitations

- It is a time consuming process as the user has to type the dbase commands. He has to remember all the commands which are difficult.
- It is limited to a single system.
- A user who wants only to have some information has to contact the administrator every time

1.3.2. Proposed System Features

- User friendliness is provided in the application with various controls.
- The system makes the overall project management much easier and flexible.
- Vast amount of data can be stored.
- There is no risk of data mismanagement at any level while the project development is under process
- Relationships between the administrator, owner/developer and subcontractor can be maintained very easily.
- It provides a high level of security using a secure login screen.

CHAPTER 2

PROBLEM DEFINITION

Viewing and managing the results of students is sometimes complicated and messy so to make the process simple and user friendly Student Result Management System Comes (SRMS) in . Sometimes it's not easy for students to check the result so the student result management system displays the results in an easier way ,that is in a tabular format or in text boxes etc , which makes viewing results a lot simpler and easily accessible in just one or two clicks .

Adding information of the student in the databases through command line is a complicated task not everyone can do it so to simplify the process student result management system contains admin module which make adding student information and their marks simple , adding student and their marks can be done by entering their information through textboxes and comboxes and then pressing create button to add the information in database.

CHAPTER 3

PROPOSED SYSTEM

We have developed a new system which is based on a Java in which the students will be able to view their result and their basic details just by entering their roll number .Basic details such as their name their gender their birth date and for result they will be able view their marks in a tabular format different column for every subject In the end a pass and fail counter will be shown to make the student clear that he is passing or failing the semester, total marks of the student will also be shown in the end (addition of all the marks). It is the most reliable and time saving system while maintaining some basic level security (one one except admin will be able to edit the system and students are only allowed to view the result they cant make changes to the data displayed).

Student Module

The functionalities of Student are

- The Student should login into the system with unique her/his username and password
- If the roll number is valid then he can gain access to the system
- Student views his/her own Personal details.
- Student views Results.

The Student can do the following actions

1. Login
 - a. logging in by using their given roll number to see the information of the student for which the roll number belongs.
2. Student Actions
 - a. views basic details
 - i. Basic details of the students such as their roll number, their id and gender will be displayed.
 - b. views results
 - i. Marks in all the subjects will be displayed here.
3. Log out

The Admin can do the following actions

1. Login
 - a. Admin can login using their username and password .
2. Admin Actions
 - a. views all information.
 - i. admin will be able to view all the information of all the added students .
 - b. add students
 - i. admin can add students inside the database.
 - c. add student data like their basic information
 - i. admin can also add basic information of students like their name,gender, father name,etc.
 - d. add student marks for various subject
 - i. Admin can add students' marks for different subjects .
 - e. update student data
 - i. Admin can update student data if there are any changes to make in the students information already present.
 - f. view all student data at once
 - i. Admin module contains a table which will display all the students basic information in one page.
 - g. view all results at once
 - i. Admin module contains a table which will display all the marks of the students in one place.
3. Log out

3.1.Features and Functionality

3.1.1 Features

- User friendliness is provided in the application with various controls
- The system makes the overall project management much easier and flexible.
- Vast amount of data can be stored
- There is no risk of data mismanagement at any level while the project development is under process.
- Relationships between the administrator, owner/developer and subcontractor can be maintained very easily.
- It provides a high level of security using login methods.

3.1.2 Functionality

- The admin should login into the system with a unique her/his username and password.
- If the user name and password are valid then the admin can gain access to the system.
- Admin can Add New Students.
- Admin can enter Marks of the registered Students.
- Admin can see all registered students.
- Admin can see all registered students' results at the same time.
- Students view Results by entering their Roll number.

CHAPTER 4

Project Outcomes

Users will get a complete interface for viewing students' data (the data will consist of their name, id , gender, fathers name, and their marks in various subjects). Admin will be getting the full access of the software i.e he/she can add or remove students add their marks in various subjects and edit their marks . These all thing added will be displayed to the students after they enter their roll number in the student login page

Output Screen .

HOME PAGE:

Home Page is the main screen which will be displayed to user after opening the program , the homepage contains two buttons one is student and other is admin , student button will take you to student login page and admin button will take you to admin login page from where you will be logging in . . .

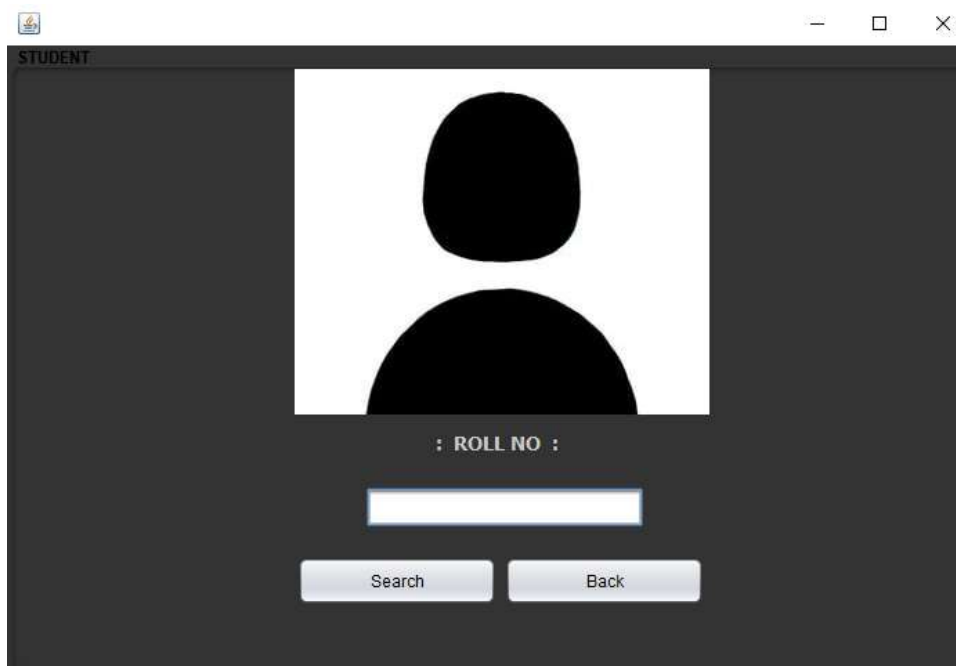
IMAGE:



STUDENT LOGIN:

Student Login page consist of field to enter roll number for user and a search button and back button the search button will search the inputted roll number in the database and if the roll number is present you will be taken to the result display page but if not a error will be popped displaying roll number not present ,back button is self explanatory it will take you back to Home page .

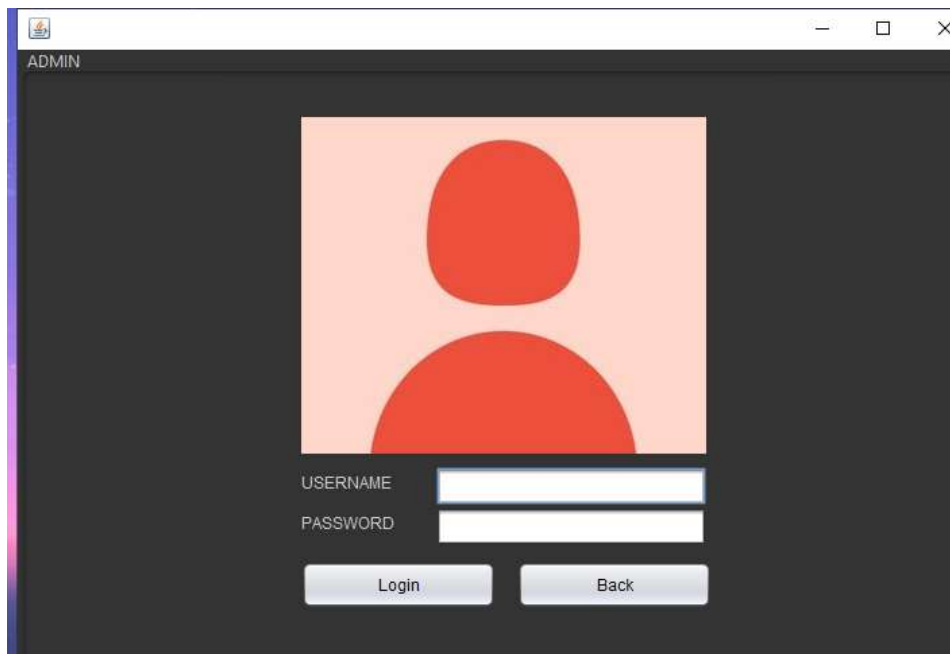
IMAGE:



ADMIN LOGIN:

In admin login page admin will need to input their given username and password only if the name and password is correct then only the admin will able to login or else an error will be displayed the username or password is incorrect , the admin login page consists of login button and back button , login button will log you into the admin module and the back button will take you back to home page .

IMAGE:



STUDENT HOMEPAGE:

Student homepage is the place where all data will be displayed after the student login using the roll number provided student homepage will be displayed ,the homepage consists of all the data that is present about the student like their roll number, their marks in various subjects etc.student homepage doesn't allow editing values in it so no student logged in will be able to alter their values (Student homepage is a view only page no altering values is allowed).

IMAGE:

The screenshot shows a web application window titled "RESULT". It contains a form for student details and a table of marks.

Form Fields:

- Course Name:
- Branch Name:
- Name:
- Roll Number:
- Gender:
- Fathers Name:

Marks Table:

	Total Marks	Passing Marks	Marks Obtained
Physics -1	100	30	<input type="text"/>
Chemistry	100	30	<input type="text"/>
Mathematics	100	30	<input type="text"/>
Electrical Engg.	100	30	<input type="text"/>
Electronic Engg.			<input type="text"/>
Total Marks	500	150	

A "Back" button is located at the bottom right of the table.

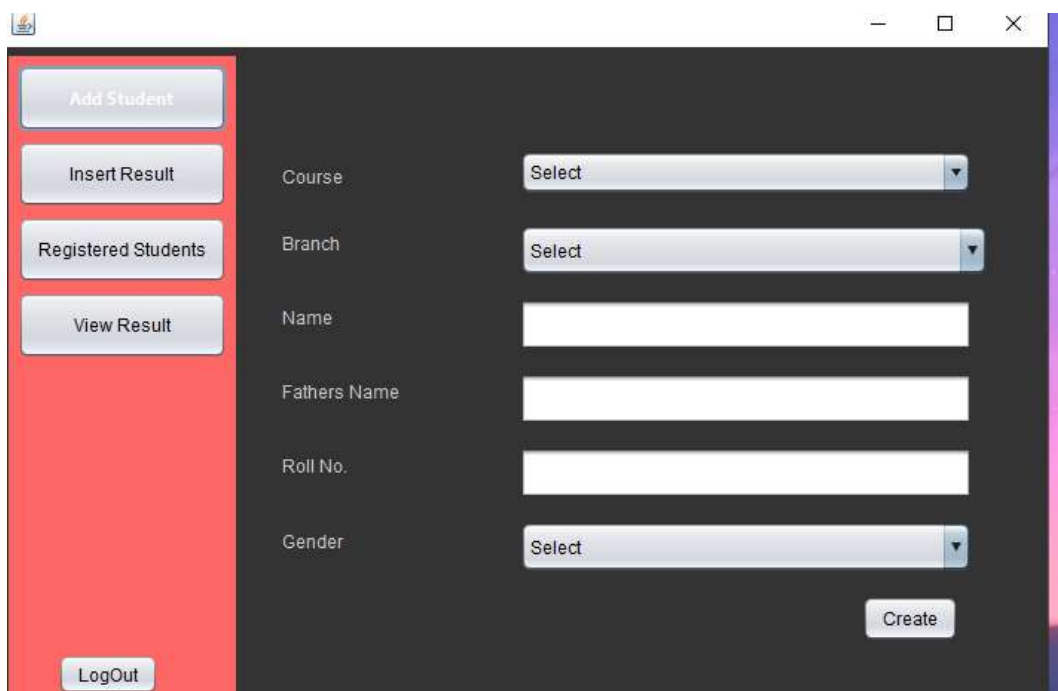
ADMIN PAGE:

Admin Page consists of many different pages which allows admin to add new students, insert the result of the student, view all the registered students at once and also view their result at once. On the left side of the page buttons like add student, insert result, view registered student and view result are shown which allow the admin to switch pages according to the needs.

ADD STUDENT:

Add Student is a feature given to admin which allows admin to add a new student and add basic information about the student. The page consists of Combo boxes and Text Fields which makes adding new students very simple. The create button on the bottom right corner will add the student and their information in the database.

IMAGE:



The image shows a web application window titled "Add Student". On the left side, there is a red sidebar containing four buttons: "Add Student", "Insert Result", "Registered Students", and "View Result". At the bottom of this sidebar is a "LogOut" button. The main area of the window has a dark background and contains the following form fields:

- Course:** A dropdown menu with "Select" as the current value.
- Branch:** A dropdown menu with "Select" as the current value.
- Name:** A text input field.
- Fathers Name:** A text input field.
- Roll No.:** A text input field.
- Gender:** A dropdown menu with "Select" as the current value.

A "Create" button is located at the bottom right of the form area.

INSERT RESULT:

The Insert result page allows admin to add the marks obtained by students in various subjects, to insert marks admin needs to add the marks inside the text field for the desired subject and then click the save button to save the marks.

Note: You can only add marks for student already present in the database , if you try to add a student whose basic information is not already filled an error will be displayed

IMAGE:

The image shows a web application interface for inserting student results. On the left is a red sidebar with five buttons: 'Add Student', 'Insert Result', 'Registered Students', 'View Result', and 'LogOut'. The 'Insert Result' button is highlighted. The main content area is light gray and contains a form with the following fields and labels:

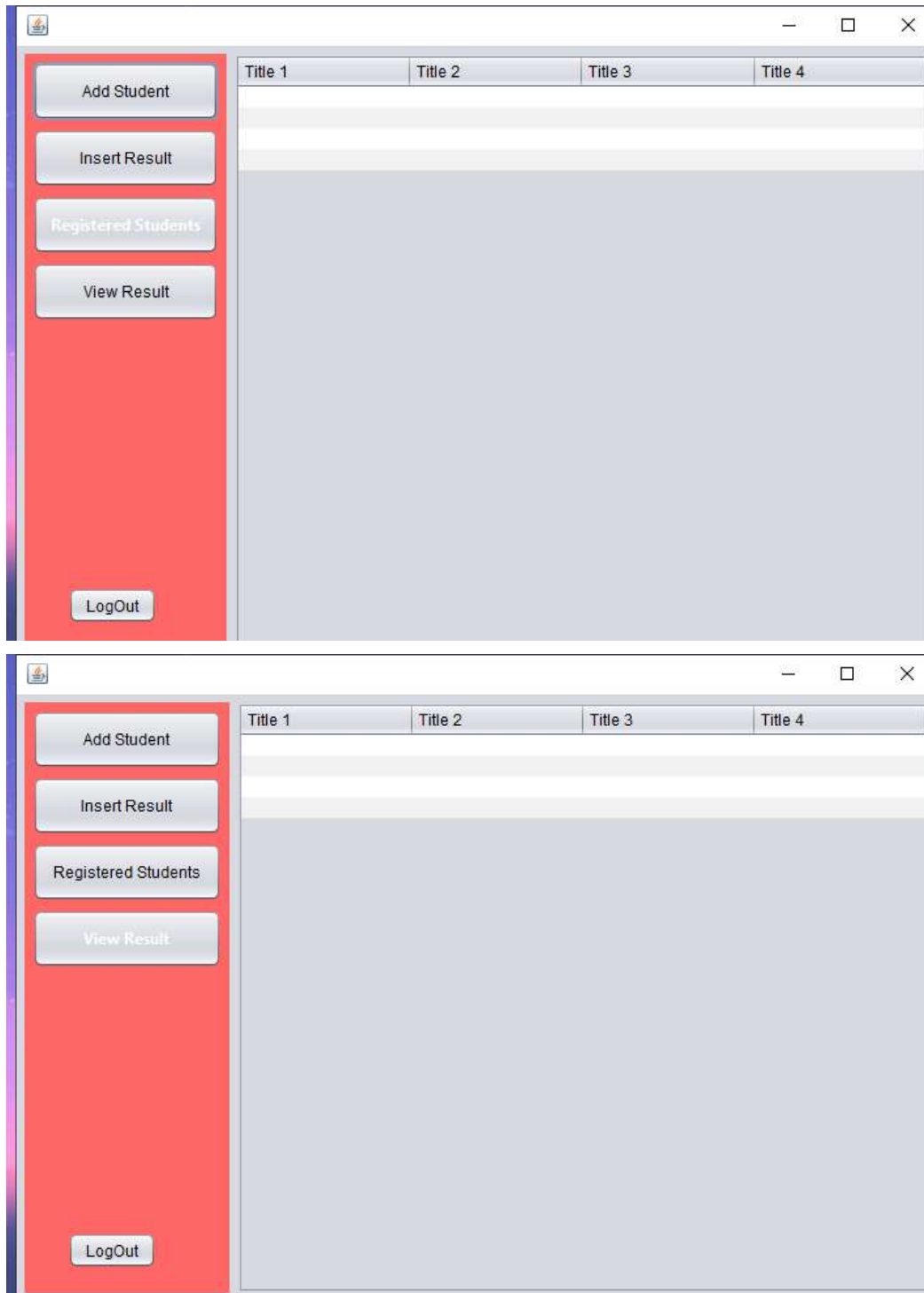
- RollNo. (text input field)
- Physics -1 (text input field)
- Chemistry (text input field)
- Mathematics -1 (text input field)
- Electrical Engg. (text input field)
- Electronic Engg. (text input field)

A 'Save' button is located at the bottom right of the form area.

VIEW STUDENT AND RESULT:

View student and view result page allows admin to view all the added students and their result data at once which make it easier to see how much data is added in the database .All the data will be displayed in table format .

IMAGE.



CHAPTER 5

Software Requirements

1) Minimum Operating system required-

Windows 2000,XP operating systems higher than Windows 2000 and Windows XP will be able to run the SRMS software with ease without facing any issues.

2) User interface-

Java. Since the software is based on java, installing a java runtime environment is necessary without that you won't be able to run the SRMS . If you try to run the program without installing java you will get the following error “ Java Runtime Environment not found ” .To overcome the error you have to install Java RTI .

3) Database- My SQL 8

All the information added inside the software will be stored in the database which is created with the help of My SQL 8

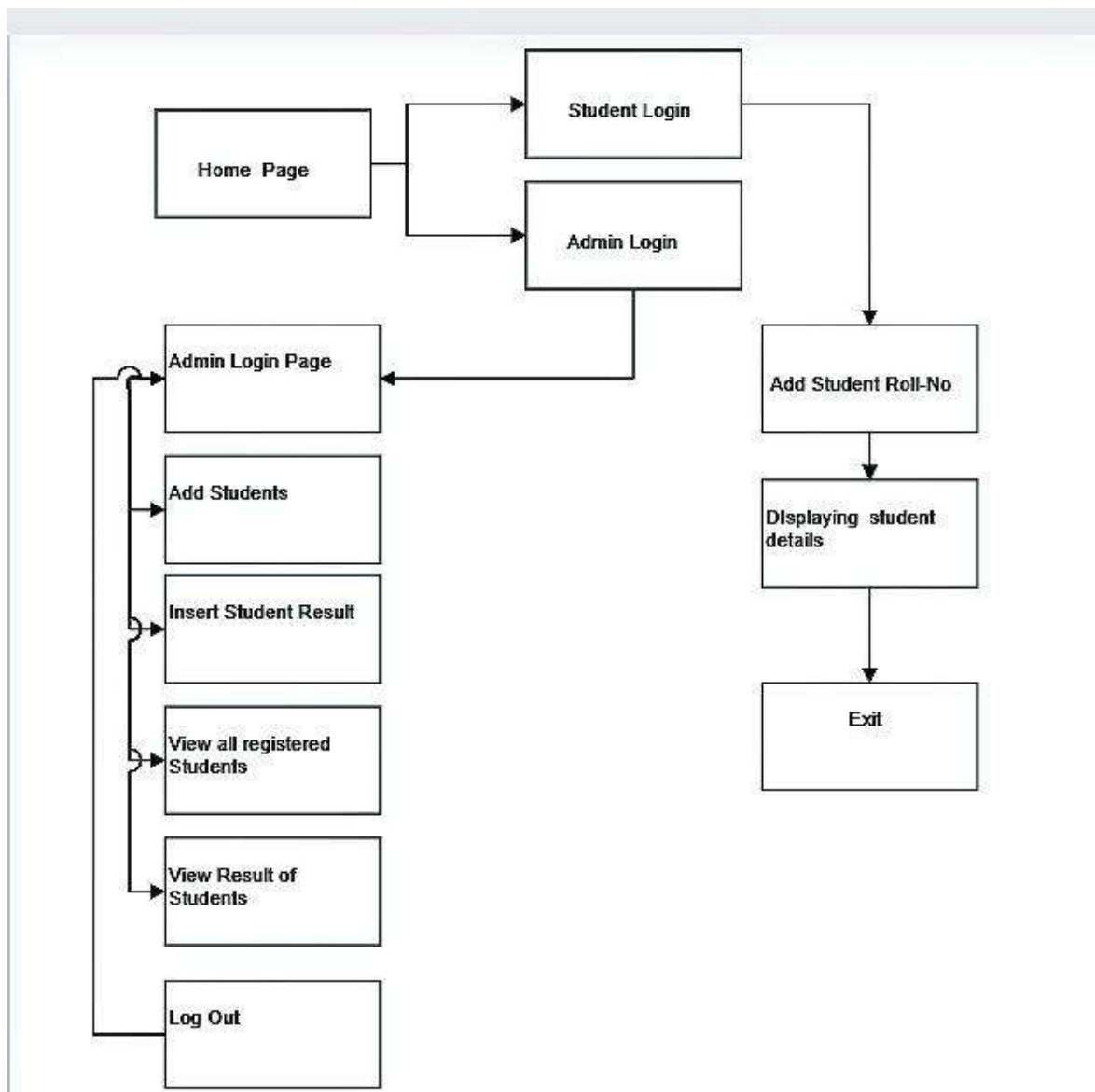
5.1 Hardware requirements

- Processor : Standard processor with a speed of 1.6 GHz or more
- RAM : 256 MB RAM or more
- Hard Disk : 20 GB or more
- Monitor : Standard color monitor
- Keyboard : Standard keyboard
- Mouse : Standard mouse

CHAPTER 6

PROJECT DESIGN

Design of the Project is simple and user friendly It provides access to most of the features required to manage student data in an easily navigating way for admin all the necessary tabs are aligned on the left side of the screen so admin will be able to use all features in just one click editing and adding student is also simple , i.e admin will only need to fill the details in the fields displayed and click on add button . students can view their result in just one click with the help of their roll number , Students need to enter their given roll number in the field on the student login page and if the roll number is correct all the info stored about that roll number will be displayed on the screen in a way anyone can easily understand (inside tables and text fields). Design of the project is done in Netbeans IDE by using JFrame .



CHAPTER 8


CONCLUSION

From a proper analysis of positive points and constraints on the component, it can be safely concluded that the product is a highly efficient GUI based component. This application is working properly and meeting all user requirements. This component can be easily plugged in many other systems.




Now you can use the Student result management system to manage and store the result of all student data .In which students will be able to view their data by entering the result display page by entering the roll number . Admin will be the one adding student data i.e student marks for all subjects and status of student passing or failing, student name , fathers name, gender , Id , roll number . Admin can also remove any student data soo it will be deleted and won't be displayed to students anymore even if he/she entered the roll number , The system will display roll no doesn't exist .

References

To learn MySQL

- Link 1:
 - [SQL Tutorial \(w3schools.com\)](https://www.w3schools.com/sql/)
- Link 2:
 -  [SQL Basics for Beginners | Learn SQL | SQL Tutorial for Beginners | Edureka](#)
- Link 3:
 - [Java Database Connectivity with MySQL - javatpoint](https://www.javatpoint.com/java-database-connectivity-with-mysql)
- Link 4:
 - [SQL Commands: The Complete List \(w/ Examples\) – Dataquest](#)

FOR LEARNING NETBEANS

- Link 1:
 -  [how to create simple login form in java using netbeans with explation, login...](#)
- Link 2:
 -  [How to Connect to MySQL Database in NetBeans IDE](#)
- Link 3:
 -  [how to populate jtable from database in netbeans || jtable tutorial || rs2xml.jar](#)
- Link 4:
 - [Adding MySQL Connector to the Java Project in Apache NetBeans - GeeksforGeeks](#)
- Link 5:
 - [NetBeans IDE Basics \(The Java™ Tutorials > Creating a GUI With Swing > Learning Swing with the NetBeans IDE\) \(oracle.com\)](#)

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