

# Student Result Management System

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A project report on

BCA-CC-606

# Student Result Management System

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Submitted to **Smt. K.B. Parekh College of Computer Science-Mahuva**

(Affiliated to Maharaja Krishnakumarsinhji Bhavnagar University)



In partial fulfillment for the award of degree of

# BACHELOR OF COMPUTER APPLICATIONS

Submitted by

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# Student Result Management System

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**MARCH-2023**



**Smt. K. B. Parekh College of Computer Science Mahuva-364290**

(Affiliated to Maharaja Krishnakumarsinhji Bhavnagar University)

**Date: 06/03/2023**

## **TO WHOMSOEVER IT MY CONCERN**

This is to certify that the Student **HIREN D. PARMAR AND AMAN R. BAMBHANIYA** of Smt. K. B. Parekh College of Computer Science Mahuva has satisfactorily completed his/her **Student Result Management System** during the period December 2022 to March 2023 in the partial fulfillment of BCA-CC-606.

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# ABSTRACT

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The main objective of this research is to enhance and automate the management and declaration of students' results using a computerized system.

This document aims to define the overall software requirement for Student Result Management System and, the efforts have defined the conditions to be intensely and accurately.

This specification document describes the capabilities laid out by the software application System Result Management System.

It states the various constraints by which the system will abide. This blueprint gives comprehensive information about student's current and previous semester results. It deals with the complete academic details of the students and comprises the student registered number, grades, total and average.

It can be accessible to admin who can use the portal for result analysis. This portal can also be handy for students to view their current.

## ACKNOWLEDGEMENT

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This is to acknowledge all those without whom this project would not have been reality. I have taken lot of effort in this project. However, it would not have been possible without kind support of faculties.

I am highly intended to the K. B. Parekh College of Computer Science, Mahuva for their guidance and constant supervision as well as for providing necessary information regarding the project.

Firstly, I would like to thank God for blessing me with his grace and helped to complete task successfully. I would also like to thank our guide **Mr. Vinod Makvana** for providing me better guidance and advice throughout the project. I extend my thanks to our respected Head of the College **Mr. Pranav Pathak**, for allowing us to use the facilities available. I would also thank to all sirs, my friends and family for their support in duration of my work.

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# Chapter-1

## Introduction

## **1. Background**

- Student result management system is a simply yet powerful one joint integrated platform that connects all the various modules of an result management systems like administration, streams, subjects, students, results, notices and many more specialized modules.

## **2. Objective**

- To reduce paperwork
- Make computerized system
- Students view results easily
- Increase operational time
- Accurate Login
- Admin /faculty can declare result easily

## **3. Purpose**

- The purpose of this developed system is to reduce the manual work of the administrator by helping in maintenance all the records computerized which is safe and secure.
- This system does several things such as the admission for a student, admin, student register, view result, etc.

## **4. Scope**

- The scope of this Student Result Management System is to provide user comfortable environment of viewing the results, subjects, notices, different streams etc.
- The main difference of our project is

## Student Result Management System

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Login student with username and password to view results, notice, and download results.

First, new students fill sign up form to admin approve then students will login.

- The benefit of SRMS is having students can not login or direct access this system while not be approve admin.
- Gives flexibility to use database effectively.

### **5. Applicability of project**

- For student who want to view and download results and view notices, classes, subjects at time and anywhere.
- For a Admin, to add Students information.
- To do the work digitally.
- Find students around the collage.

## **Chapter-2**

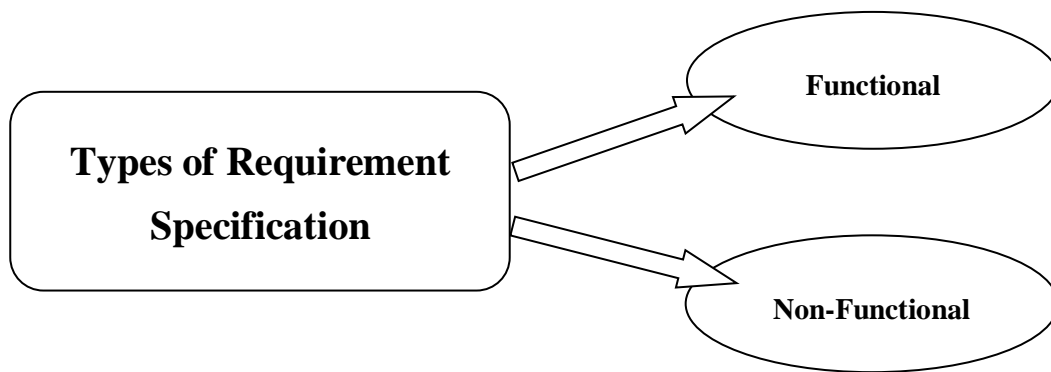
# **Requirements and Analysis**

## **1. Problem Definition**

- In today's world, process of analysis of our system takes a lot of time.
- It is very tedious and time consuming task.
- It needs our lot of effort and there are always chances of going out effort in vain.
- To remove this mess, we can develop a online Student Result Management System that offers facility to manage results from anywhere without giving our much valuable time and also increase student and admin relation.
- It is necessary to build an easy to use and powerful system.
- It reduces all the paperwork and also provides various students at one college that can be accessible around the world.

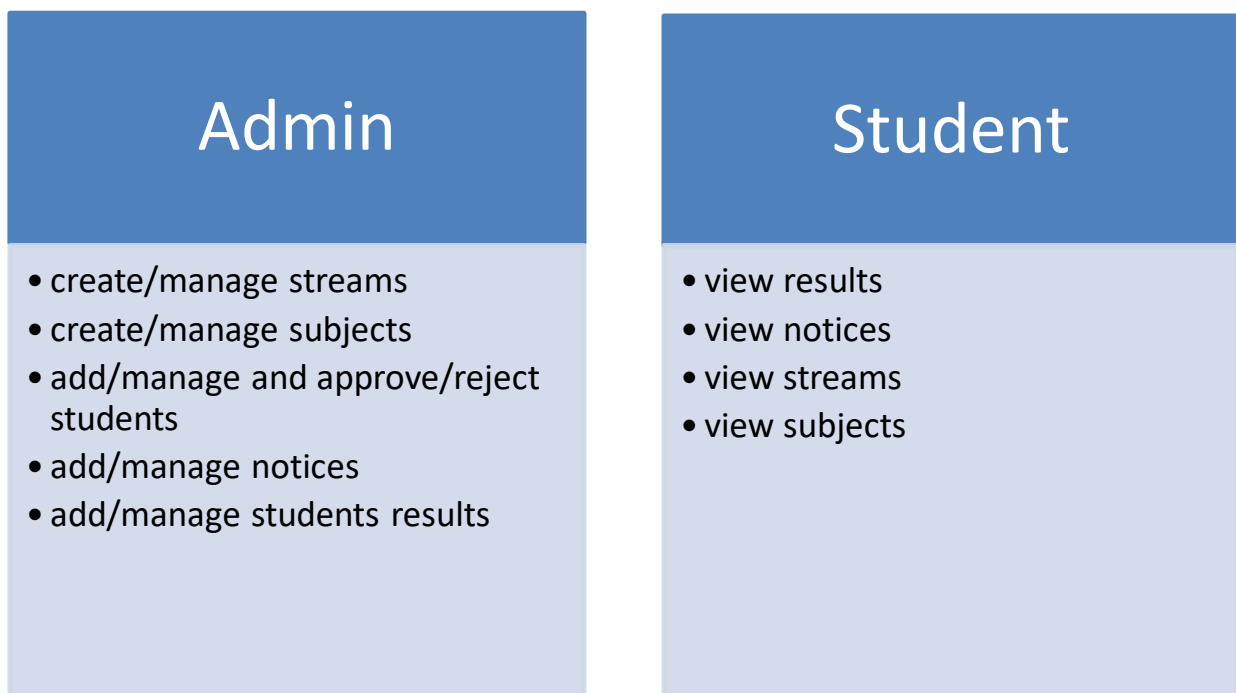
## **2. Requirements Specification**

- Identifying system requirement is an important component of the system development process.
- It is the stage for defining and prioritizing business requirement.
- This perhaps the most important and essential ingredient of the system analysis phase and its proper completion ensures the success of the entire system.
- It establishes what the new system must do, it involves identifying who needs what information, where, when and how.
- It also identifies the data, process and interface requirements for the users of the new system.
- The ultimate goal of the requirement analysis is the creation of the requirement specification for the new system.



### Functional Requirement

- The functional requirements, as collected from users.
- It depends on type of user that is going to interact with system.
- There are main two types of user in this Student Result Management System Project.
- The following diagram shows different types of users and their exceptions from system.



### **Non-Function Requirements**

- These requirements are the how of our website.
- It defines system operational capabilities.
- Some of the non-function requirements are as below:
- **Usability**
  - These requirements focus on the appearance of the user interface and how people interact with it.
- **Reliability**
  - These requirements determine system availability that is able to work 24\*7 for 365 days if needed.
- **Performance**
  - The Student Result Management System provides the best performance as needed.
- **Reusability**
  - In future, the admin's requirements will increase so that they will be able to reuse the code and make changes to fulfill the requirements. So, this system will be reusable in future.



## **3. Hardware Requirements**

<b>Hardware</b>	<b>Minimum Requirement</b>
<b>Processor</b>	Intel core i3 and upper version
<b>RAM</b>	4 GB
<b>Hard-disk</b>	500 GB
<b>Hard-drive</b>	5400 RPM
<b>Screen Resolution</b>	1024*768 (Expected)
<b>Internet Connection Required</b>	YES

## **4. Software Requirements**

<b>Software</b>	<b>Minimum Requirement</b>
<b>Operating System</b>	Windows vista or upper
<b>Browser</b>	Supported in all browser
<b>Tools</b>	Microsoft Visual Studio Code
<b>Technology</b>	PHP and MySQL
<b>Other Languages</b>	HTML, CSS, Bootstrap
<b>Documentation Tool</b>	Microsoft office word 2007 or higher
<b>PowerPoint Presentation Tool</b>	Microsoft office PowerPoint 2007

### **5. Planning and Scheduling**

#### **Gantt Chart :**

- A Gantt chart is a type of bar chart, adapted by Karol Adamiecki in 1896 and independently by Henry Gantt in the 1910s, that illustrates a project schedule.
- Gantt charts illustrate the start and finish dates of the terminal elements and summary elements of a project.
- Terminal elements and summary elements comprise the work breakdown structure of the project.
- Although now regarded as a common charting technique, Gantt charts were considered revolutionary when first introduced.
- Gantt chart provides a graphical illustration of a schedule that helps to plan, coordinate, and track specific tasks in a project.
- Gantt chart is very simple and even can be understood by illiterate or uneducated people.
- So the Gantt chart is the very easier and most suitable way to track progress of project for any kind of project such as school project, office project, group activities, etc.
- The following Gantt chart shows what activities are done and when they are done in this Student Result Management System project.

## Student Result Management System

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	December				January				February			
	WEEK				WEEK				WEEK			
	1	2	3	4	1	2	3	4	1	2	3	4 (Recheck)
<b>Requirement Gathering</b>												
<b>Planning and Scheduling</b>												
<b>Analysis</b>												
<b>Designing</b>												
<b>Coding</b>												
<b>Testing</b>												
<b>Implementation</b>												
<b>Documentation</b>												

## **Chapter-3**

# **Technology Used**

## Student Result Management System

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- In my project Student Result Management System, for development I have to use some tools and technology.
- The below information gives details about used languages and techniques.

### ❖ FRONT-END

#### HTML

- HTML stands for Hyper Text Mark-up Language. It is a Standard language. The HTML is used to develop web pages.
- HTML is a Mark-up Language which means you use HTML to simply “mark-up” a text document with tags that tells a web browser how to structure it to display.
- When you are creating web pages, it provides number of tags that can be used to place and format text, picture on the webpage.

#### CSS

- CSS stands for cascading style sheet.
- CSS is used for describing the presentation of a document written in a markup language.
- You can use CSS to set or format the web pages, live font, border, backgrounds and web page graphics, etc.
- HTML pages are formatted by specifying the relevant CSS in a separate “.css” file that reduces complexity and repetition in the structural content.
- CSS has a simple syntax and uses a number of English keywords to specify the names of various style properties.

### **Bootstrap**

- Bootstrap is a free and open-source, front-end web framework for designing websites and web applications.
- It contains HTML and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions.
- Bootstrap is modular and consists of a series of less stylesheets that implement the various components of the toolkit.

### **JavaScript**

- JavaScript is the Programming Language for the Web.
- JavaScript can update and change both HTML and CSS.
- JavaScript can calculate, manipulate and validate data.

### **jQuery**

- There are lots of other JavaScript libraries out there, but jQuery is probably the most popular, and also the most extendable.

### **Ajax**

- AJAX = Asynchronous JavaScript And XML.
- AJAX is not a programming language.
- AJAX just uses a combination of:
  - A browser built-in XMLHttpRequest object (to request data from a web server)
  - JavaScript and HTML DOM (to display or use the data)
  - AJAX allows web pages to be updated asynchronously by exchanging data with a web server behind the scenes. This means that it is possible to update parts of a web page, without reloading the whole page.

### PHP

- PHP(Hypertext PreProcessor) is a widely-used open source general-purpose scripting that is especially suited for web development and can be embedded into HTML.
- PHP is the most popular scripting language for web development. It is free, open source and server-side (the code is executed on the server).

#### ▪ **Unique Features Of PHP technology**

- 1.Performance
- 2.Portability(Platform Independent)
- 3.Easy to Use
- 4.Open Source

### ❖ BACK-END

#### MySQL

- MySQL is a Relational Database Management System (RDBMS) that uses Structured Query Language (SQL).
- It is also free and open source.

## **Chapter-4**

# **System design**



## **1.Iterative Model**

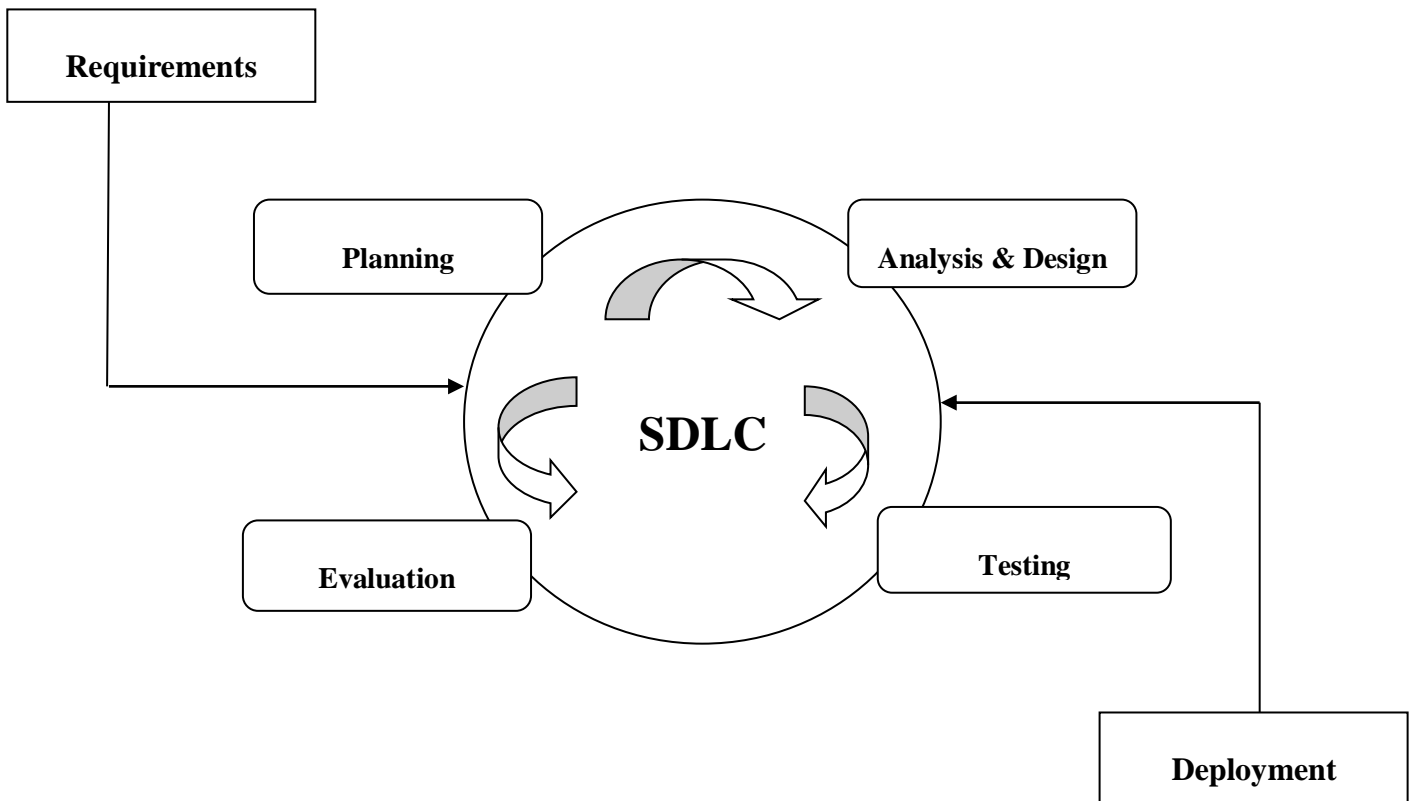
- The popular iterative model gives an exact performance of the development of software as a life cycle. It primarily focuses on preliminary growth and design and then gains momentum slowly with more complexity as well as meet requirements until the final software is built entirely. So, basically, the iterative development model is an approach of segmenting any large software development process into smaller portions.
- This type of SDLC model does not target to establish a complete specification plan. As an alternative, this model is dedicatedly designed to start with minimum requirements specifying as well as implementing only a part of the software. The prototype is then further reviewed for additional requirements. The practice then takes an iterative form to create a new version of the application.

### **Phase of Iterative Model**

- **Requirements Phase:** In the requirements phase of software development, the system related information is gathered and analyzed. The collected requirements are then planned accordingly for developing the system.
- **Design Phase:** In the Design phase, the software solution is prepared to meet the necessities for the design. The system design may be a new one or the extension of a previous build one.
- **Implementation and Test:** In the implementation as well as a test phase, the system is developed by coding and building the user interface and modules which is then incorporated and tested.

- **Review Phase:** The review phase is where the software is estimated and checked as per the current requirement. Then, further requirements are reviewed discussed and reviewed to propose for an update in the next iteration.

### **Graphical Representation of Iterative Model :**



[Figure : Iterative Model]

### **Benefits of using Iterative Model**

Produces working system rapidly and before time throughout the software development life cycle

Provides more and more flexible and enhance based on requirements.

Simple to test as well as repair as small iteration.


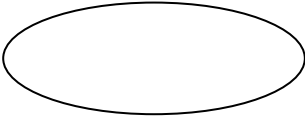
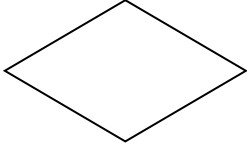
### **2. Over all System design using designing Tools**

- To Effectively complete process of the system design, we can use the different types of diagram.
- The most appropriate diagram to represent Student Result Management Systems are “E-R Diagram” and “DFD”.

#### **E-R Diagram**

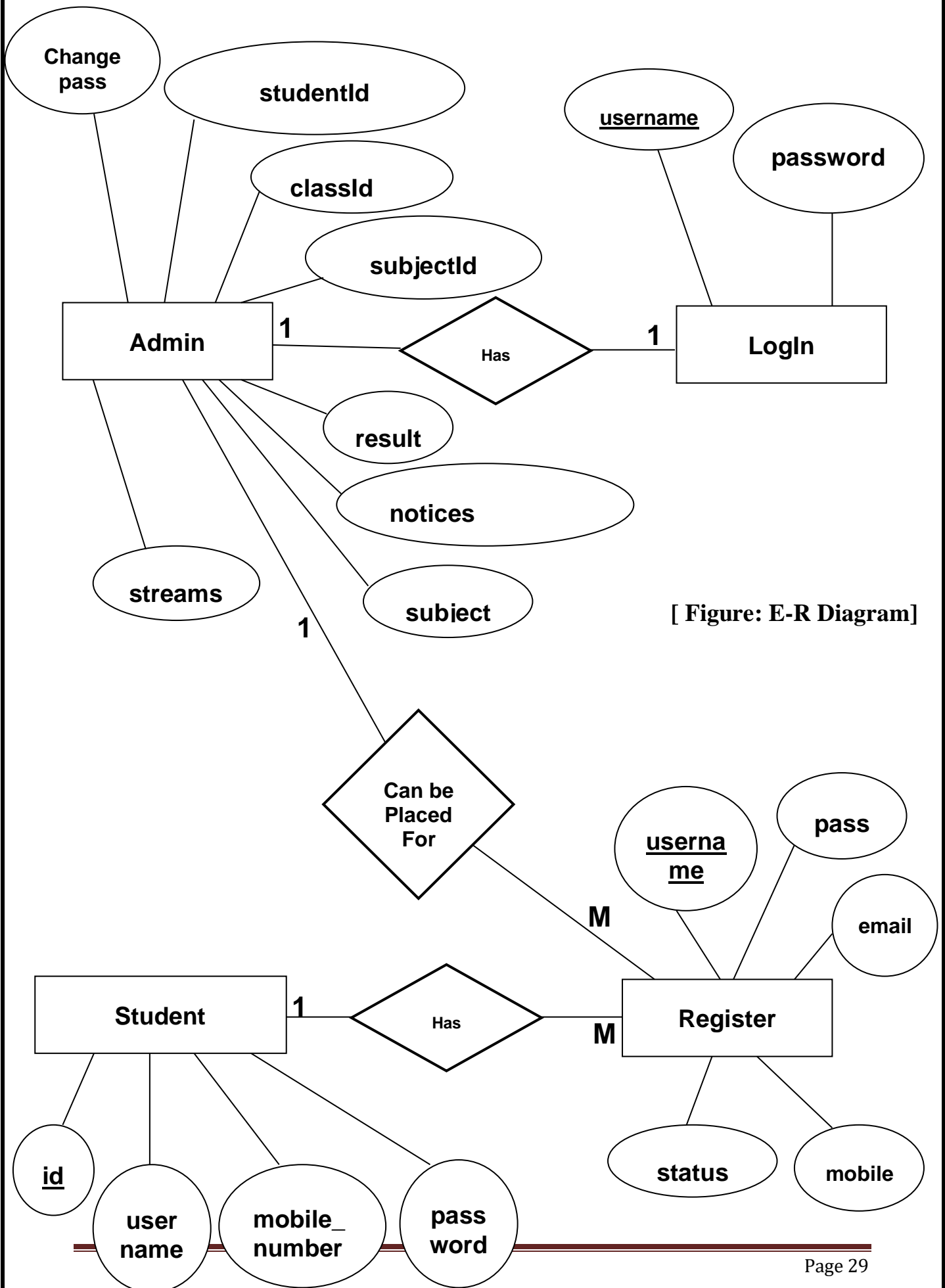
- E-R Diagram stands for Entity-Relation Diagram.
- It is a type of flowchart that illustrates how “entities” such as people, objects or concepts relate to each other within a system.
- So by showing relationship among tables and their attributes, ER diagram shows the complete logical structure of a database.
- The ERD model is very useful in mapping the meaning & interactions of the outside world with our system.
- The following symbols are used in E-R Diagram.

## Student Result Management System

Name of Symbol	Symbol	Description
<b>Entity</b>		Entity may be a live person or anything. It is also known as object. Example: <b>Student, Admin</b> , etc.
<b>Attribute</b>		An attribute is the property or characteristics of any entity in the entity set. It is also known as object property. Example: <b>ROLLNUM</b> is attribute of Student
<b>Relationship</b>		The association among entities is called a relationship. For example: An students <b>study in</b> college.
<b>One to One Relationship</b>	1                      1 _____	It shows connected 2 entities has 1 to 1 relationship between them.
<b>One to Many Relationship</b>	1                      M _____	It shows connected 2 entities has many to many relationship between them.
<b>Many to One Relationship</b>	M                      1 _____	It shows connected 2 entities has many to one relationship between them.
<b>Many to Many Relationship</b>	M                      M _____	It shows connected 2 entities has many to many relationship between them.

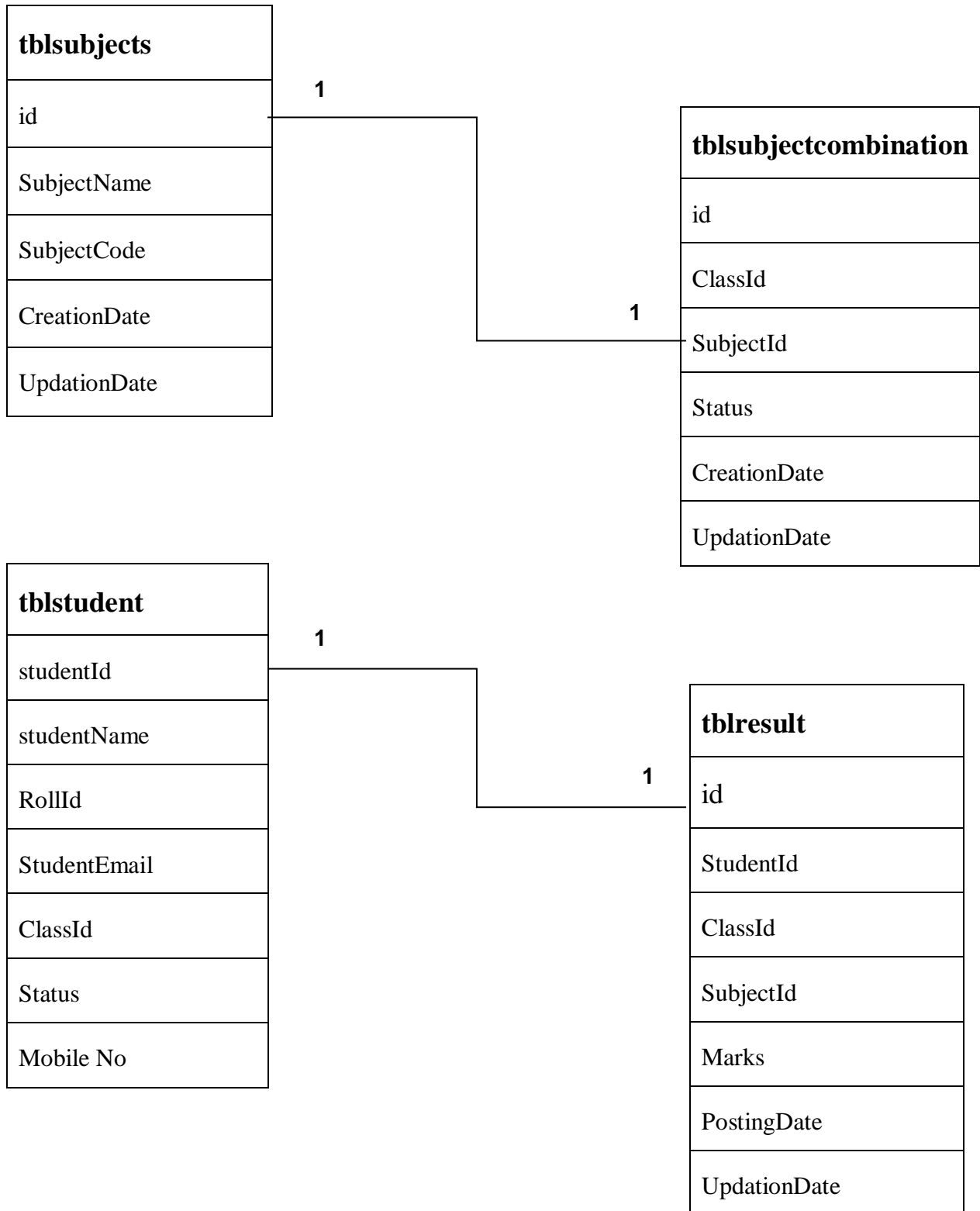
- The following diagram shows the **E-R Diagram** of Student Result Management System.

## Student Result Management System



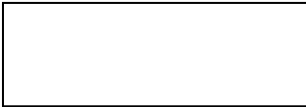


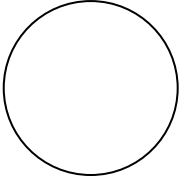
# Student Result Management System

## Relationship of Database Table



### DFD

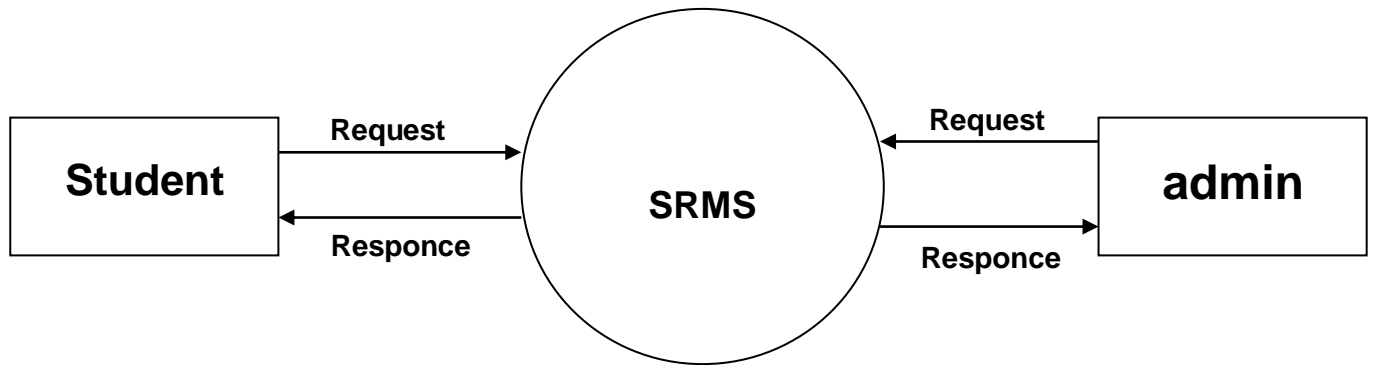
- DFD stands for Data Flow Diagram.
- A DFD describes what data flow (logical) rather than how they are processed.
- It is used to describe and analyze movement of data through a system.
- The development of DFD'S is done in several levels.
- Each process in lower level diagrams can be broken down into a more detailed DFD in the next level.
- As its name indicates its focus is on the flow of information, where data comes from, where it goes and how it gets stored.
- Following are the different symbols that are used in DFD.

Name of Symbol	Symbol
<b>Entity</b>	
<b>Data Flow</b>	
<b>Data Store</b>	
<b>Process</b>	

## Student Result Management System

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- The following diagram shows **0 level DFD** for Students Result Management System.



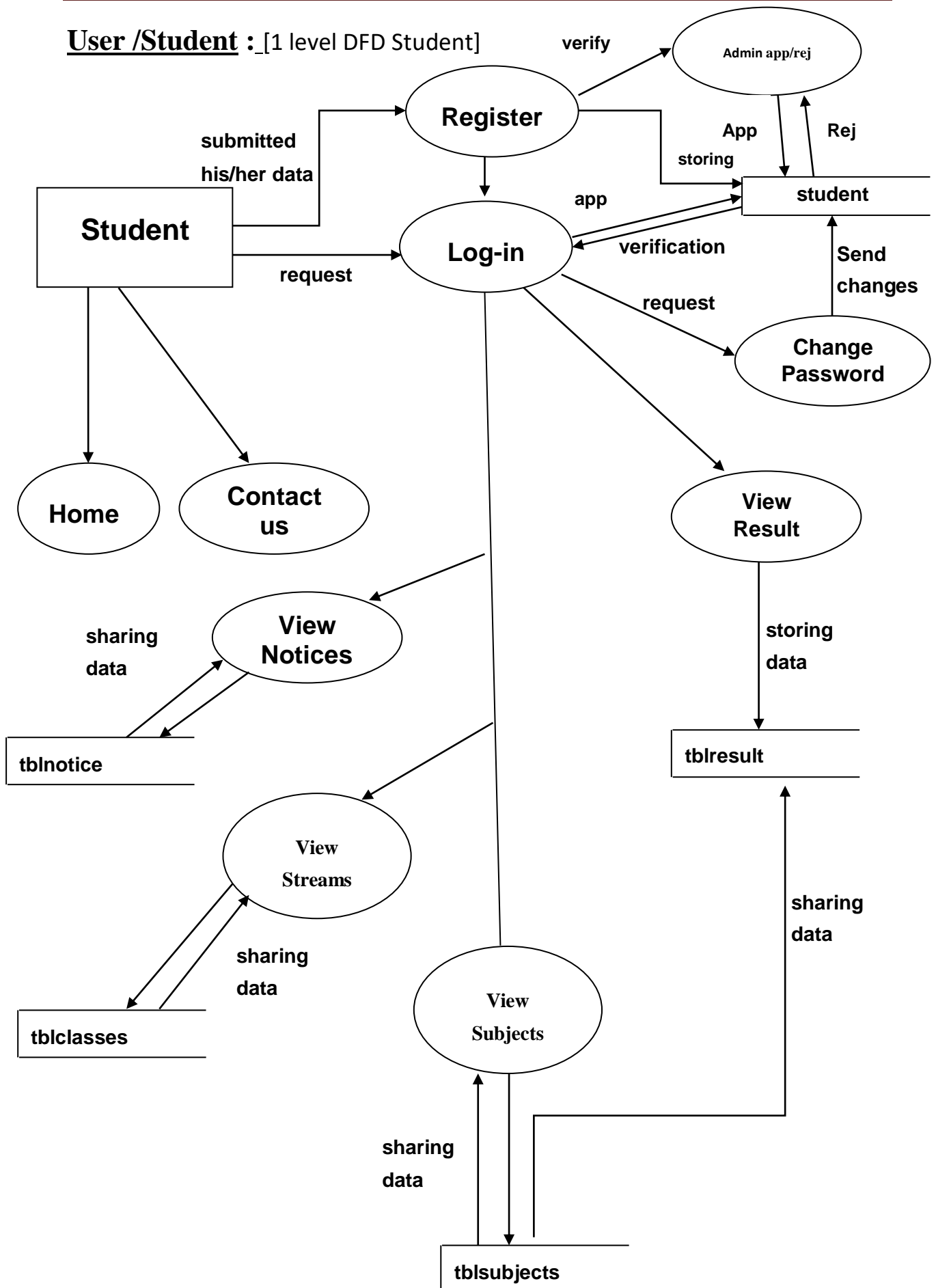
[Figure: 0 Level DFD]

- The upper diagram can be divided into **1 level DFD** as follow:



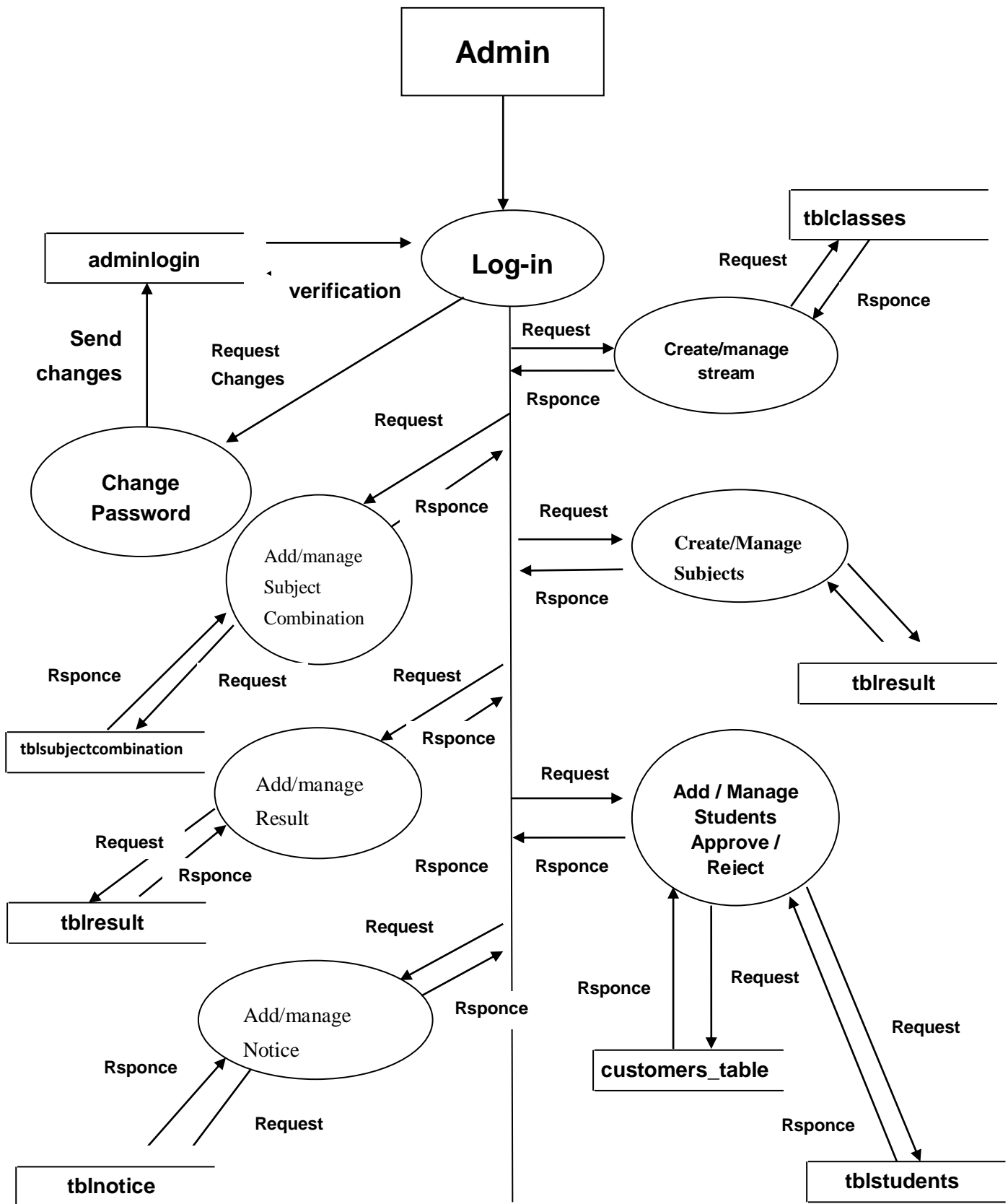
# Student Result Management System

**User /Student** :\_[1 level DFD Student]



# Student Result Management System

## Admin : [1 Level DFD Admin]

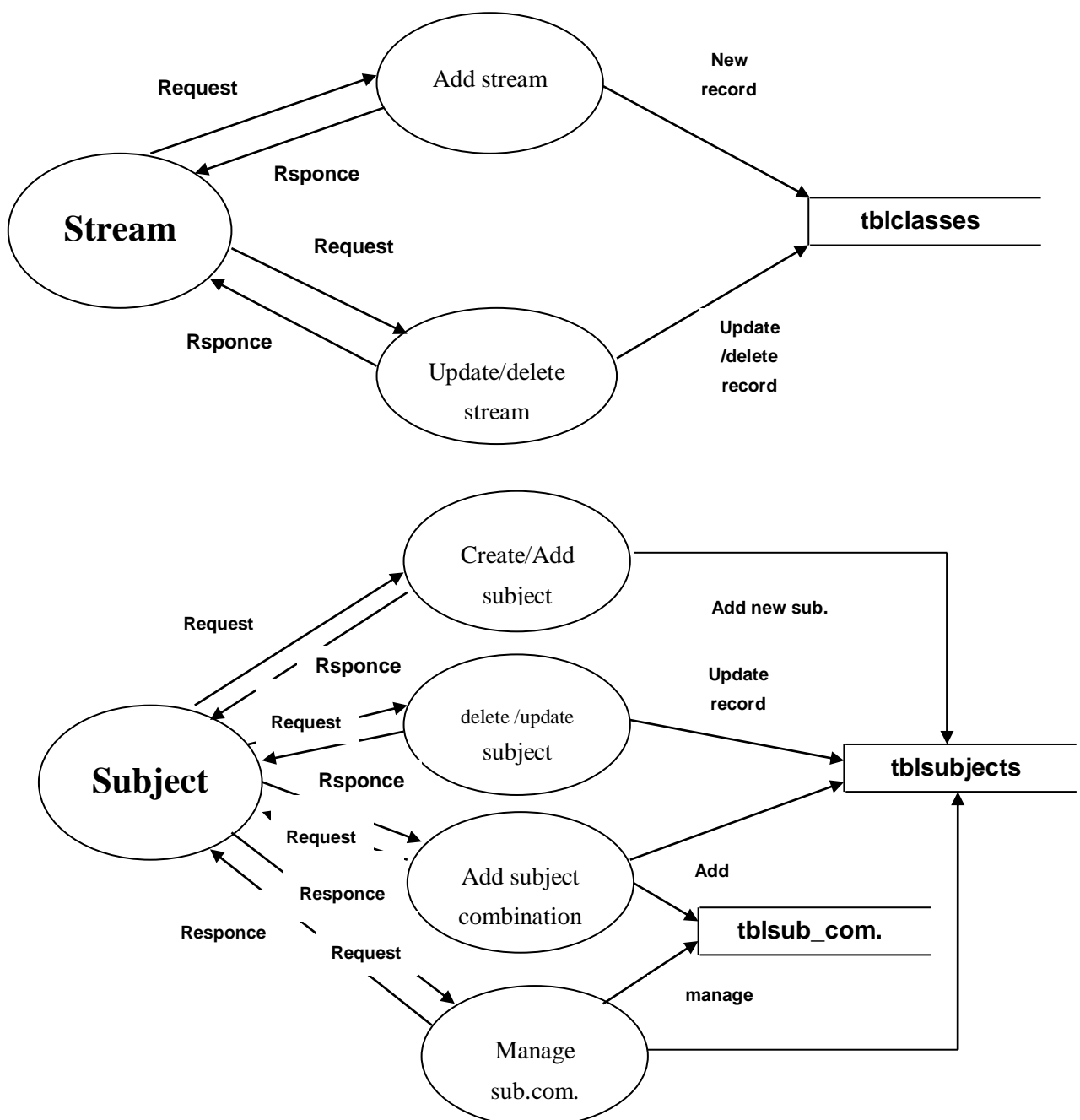


# Student Result Management System

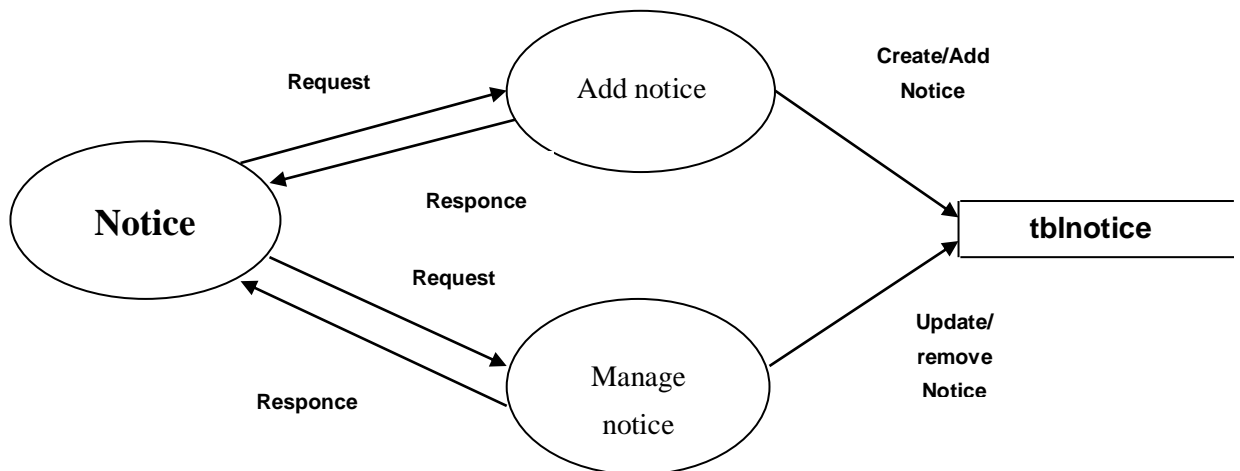
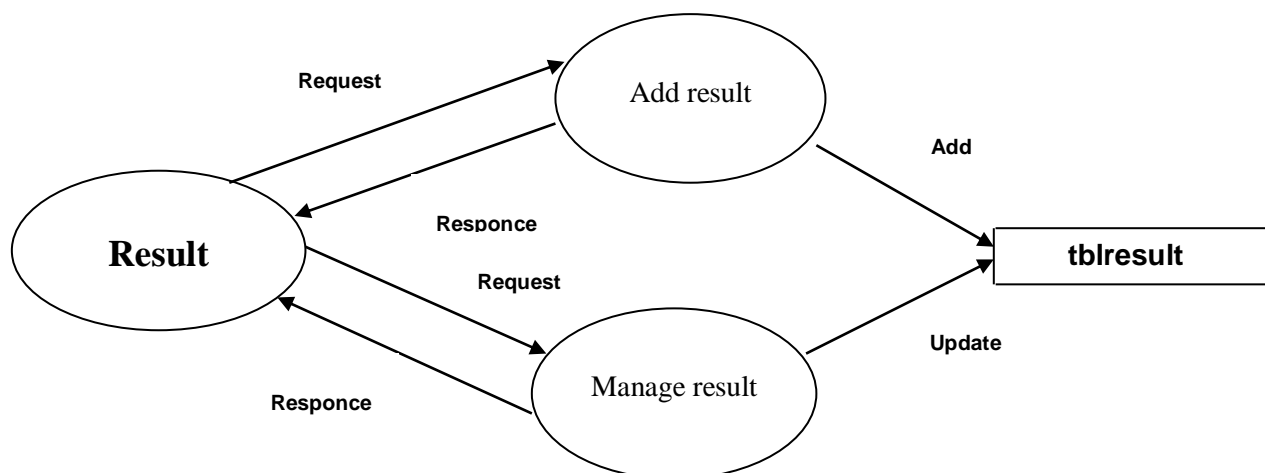
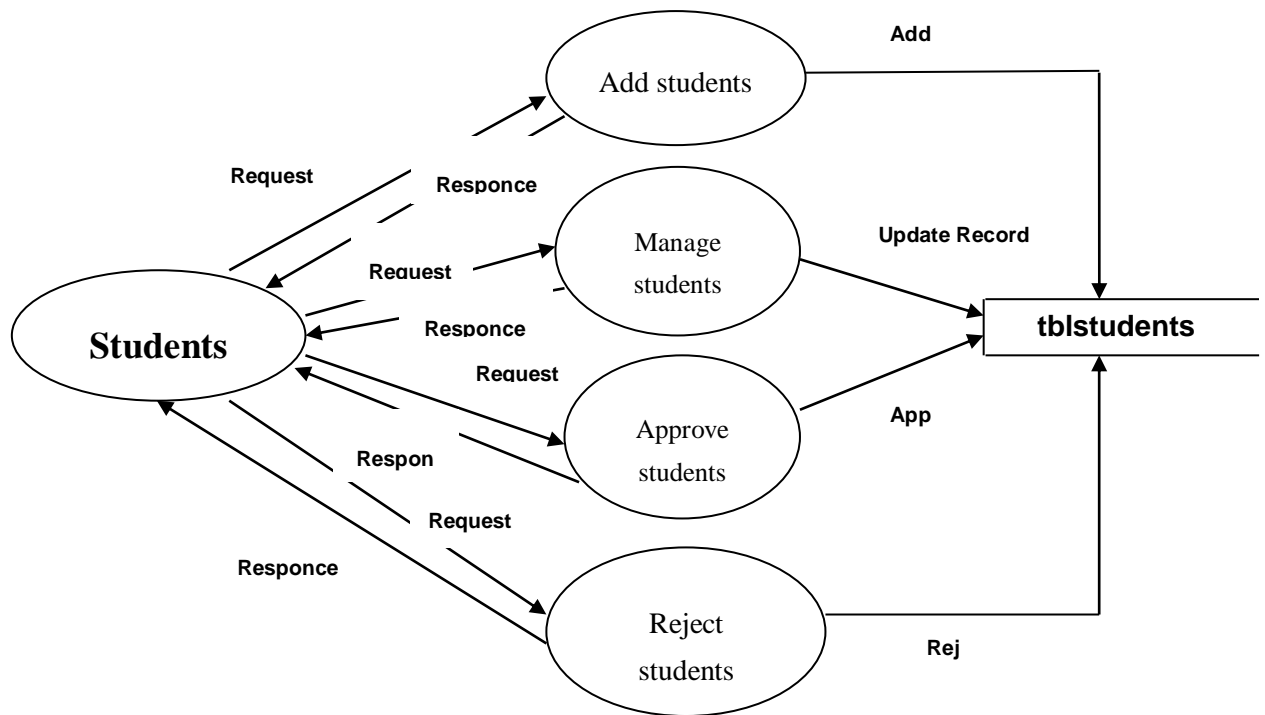
## [ 2 Level DFD ] :

- Level 2 DFDs simply break processes down into more detailed sub processes.
- In theory, DFDs could go beyond level 3, but they rarely do.
- Level 3 data flow diagrams are detailed enough that it doesn't usually make sense to break them down further.

### + Level – 2 admin

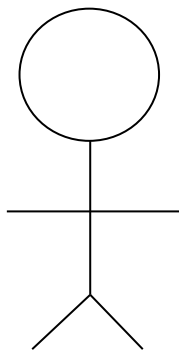


# Student Result Management System

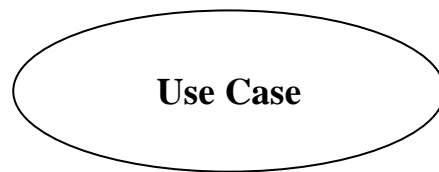


### Use Case Diagram

- Use case diagram is simplest form of representation of user's interaction with the system that shows the relationship between the user and the different use cases in which the user is involved.
- The two main components of use case diagram are use cases and actors.
- An actor can be a human users, some internal applications or may be some external applications .
- A use case is an external view of the system that represents some actions the user might performed to complete the particular task.



**ACTOR**

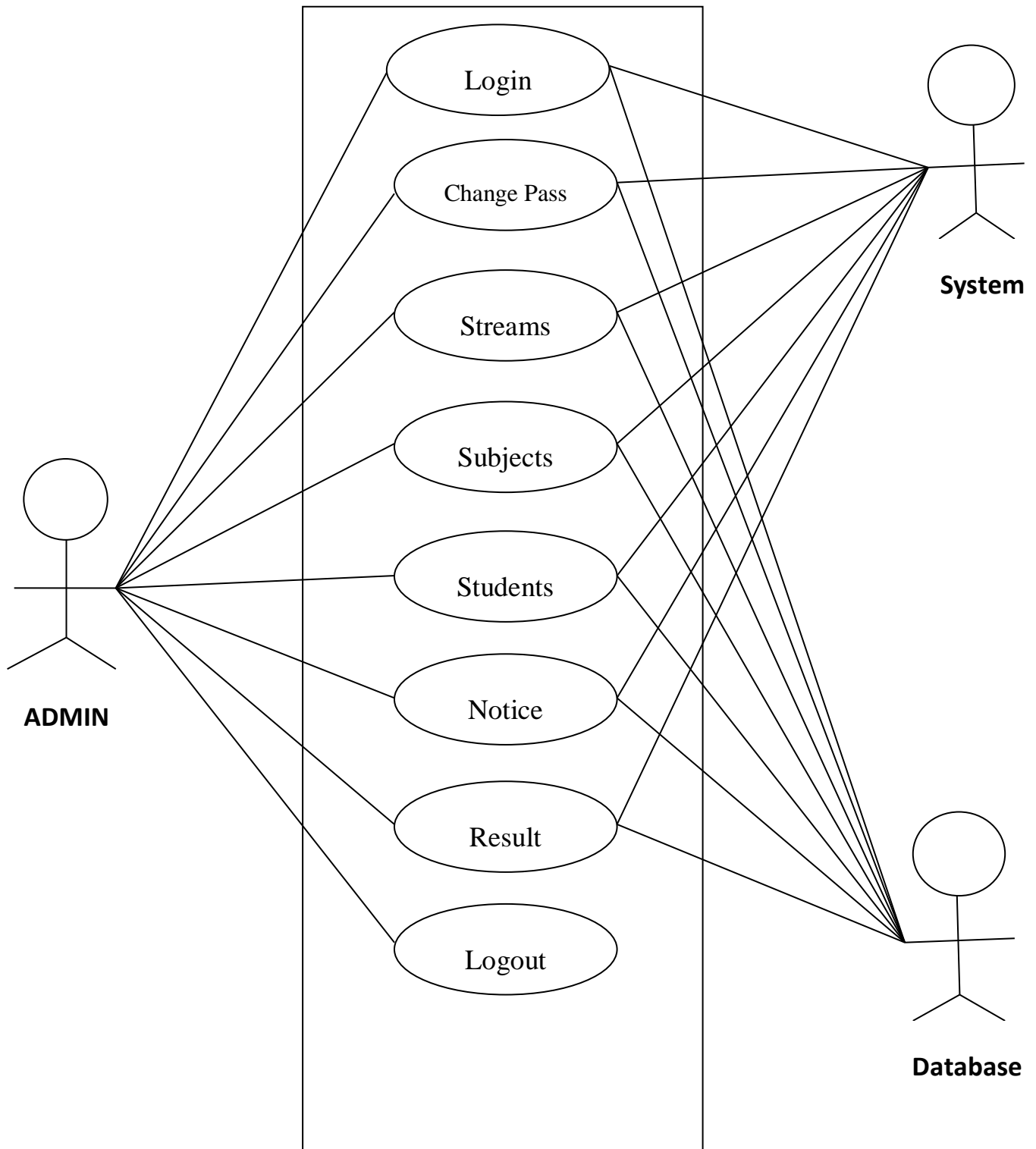


**USE CASE**

[Figure: Use Case Diagram's Symbol]

## Student Result Management System

❖ Student Result Management System's general use case diagram :



[Figure: General Use Case Diagram of SRMS]

### **3. Data Dictionary**

- Data Dictionary is also known as “Meta Data”.
- As the name suggests, these elements are structured around data in a way to meet the organization requirements.
- A Data Dictionary is a list of elements that makes all the Data flow in system.
- It stores detail and descriptions of the data flow, data store and processes.
- Data dictionary contains description & definition consulting the data structure, data elements, their interrelationship & other characteristics of a system.
- The dictionary is very important as it contains information such as what is in the database.
- It is only handled by the database administrator.
- ❖ Let’s see the data dictionary for this SRMS project.

### **Database Design / Data Structure Design**

Various tables used in the system to manage the data are as follows.

**1. student**

**2. adminlogin**

**3. tblclasses**

**4. tblsubjects**

**5. tblsubjectcombination**

**6. tblstudents**

**7. tblresult**

**8. tblnotice**

## Student Result Management System

 **student\_table**

Field	Type	Length	Key	Description
<b>Id</b>	AUTO_INCREMENT	int(10)	Primary Key	Store unique user id
<b>username</b>	Varchar	20	Unique	Store student username
<b>password</b>	Varchar	20	-	Store students password
<b>status</b>	varchar	10	-	Approve/rejected
<b>mobile</b>	Varchar	10	-	Store mobile no of students
<b>Email</b>	Varchar	30	-	Store email id of students

### ❖ Admin Table :

 **adminlogin\_table**

Field	Type	Length	Key	Description
<b>id</b>	int	11	Primary Key	Store unique code
<b>UserName</b>	varchar	100	unique	Store name of admin
<b>Password</b>	varchar	100	-	Store admin password



## Student Result Management System

### **tblclasses**

Field	Type	Length	Key	Description
<b>Id</b>	Int	11	Primary Key	Store unique class id
<b>ClassName</b>	Varchar	80	-	Store class name
<b>ClassNameNumeric</b>	Int	4	-	Store class name
<b>Section</b>	Varchar	5	-	Store student semester
<b>CreatinoDate</b>	Timestamp	-	-	Stream creation date
<b>UpdationDate</b>	Timestamp	-	-	Stream updation date

### **tblsubjects**

Field	Type	Length	Key	Description
<b>Id</b>	Int	11	Primary Key	Store unique subject id
<b>SubjectName</b>	Varchar	100	-	Store subject name
<b>SubjectCode</b>	Varchar	100	-	Store subject code
<b>Creationdate</b>	Timestamp	-	-	Store subject creation date
<b>UpdationDate</b>	Timestamp	-	-	Store updation date

## Student Result Management System

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### tblsubjectcombination

Field	Type	Length	Key	Description
<b>Id</b>	Auto_Increment	Int(11)	Primary Key	Store unique subject id
<b>ClassId</b>	Int	11	-	Store class id
<b>SubjectId</b>	Int	11	-	Store subject id
<b>Status</b>	Int	1	-	Store subject status
<b>CreationDate</b>	Timestamp	-	-	Store creation date
<b>UpdationDate</b>	Timestamp	-	-	Store updation date

## Student Result Management System



Field	Type	Length	Key	Description
StudentId	Auto_Increment	Int(11)	Primary Key	Store unique student id
StudentName	Varchar	100	-	Store student name
RollId	Varchar	100	-	Store student roll no
StudentEmail	Varchar	100	-	Store student email adds
Gender	Varchar	10	-	Store gender
DOB	Varchar	100	-	Store date of birth
ClassId	Int	11	-	Store classid of student
RegDate	Timestamp	-	-	Date of student registration
UpdationDate	Timestamp	-	-	Store updation date
Status	Int	1	-	Store student status
MobileNo	Varchar	10	-	Store mobile number
Image	Varchar	400	-	Student image store

## Student Result Management System

---

### **tblresult**

Field	Type	Length	Key	Description
<b>Id</b>	Auto_increment	Int(11)	Primary Key	Store unique result id
<b>StudentId</b>	Int	11	-	Store student id of student table
<b>ClassId</b>	Int	11	-	Store class id of classes table
<b>SubjectId</b>	Int	11	-	Store subject id of subject table
<b>Marks</b>	Int	11	-	Store student marks
<b>PostingDate</b>	Timestamp	-	-	result creation date
<b>UpdationDate</b>	Timestamp	-	-	result updation date

## Student Result Management System

---

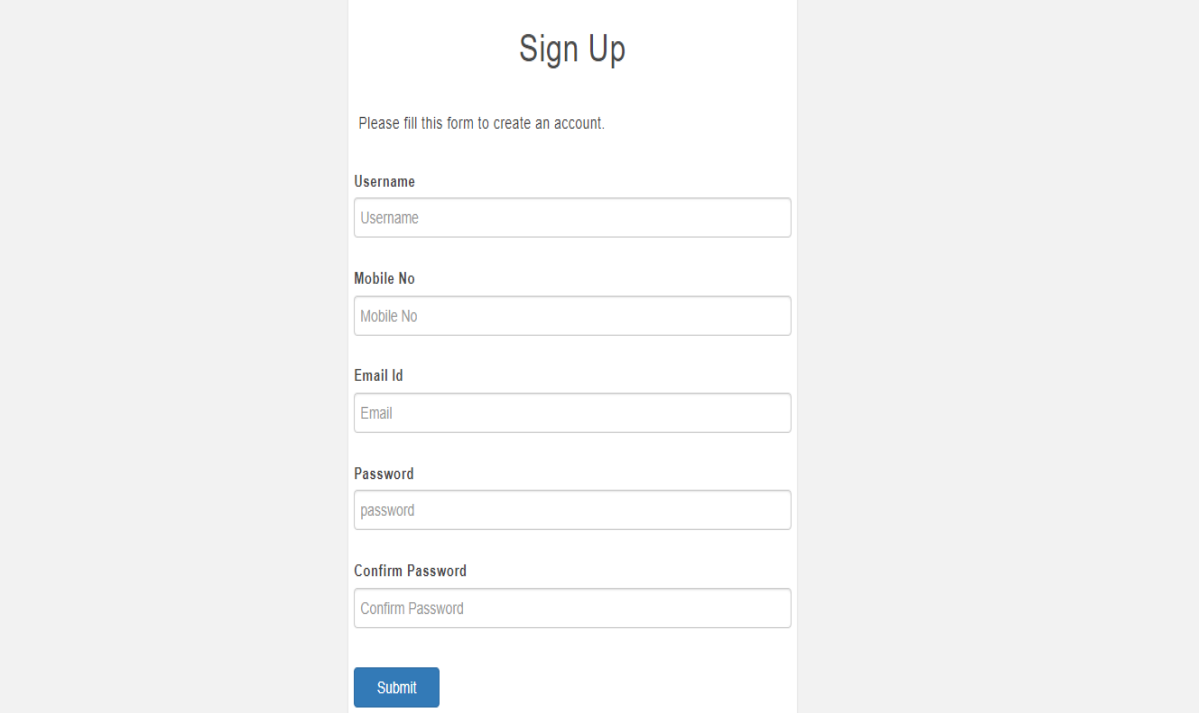
### **tblnotice**

Field	Type	Length	Key	Description
<b>Id</b>	Auto_increment	Int(11)	Primary Key	Store unique notice id
<b>noticeTitle</b>	Varchar	255	-	Store notice title
<b>noticeDetail</b>	Mediumtext	-	-	Store notice detail
<b>PostingDate</b>	Timestamp	-	-	notice creation date

## 4. Input – Output Design

### Student Registration

It will register with the required information from the student.

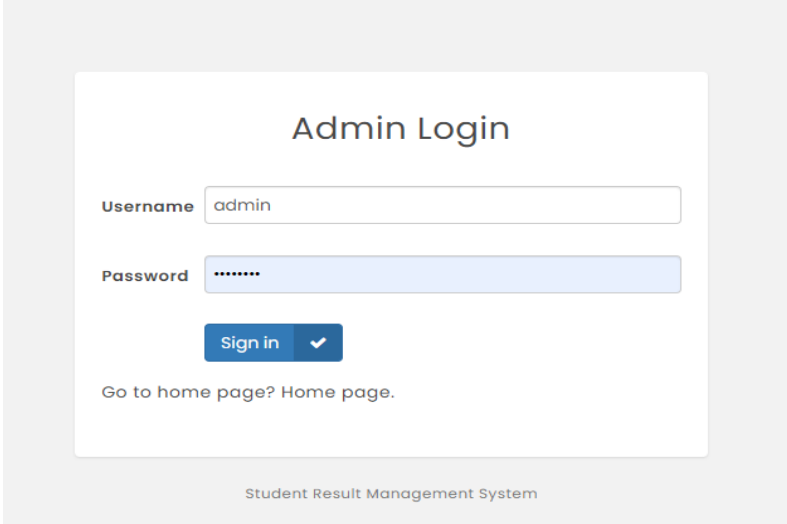


The image shows a 'Sign Up' form with the following fields and elements:

- Sign Up** (Title)
- Please fill this form to create an account.
- Username** (Label) / Username (Text input)
- Mobile No** (Label) / Mobile No (Text input)
- Email Id** (Label) / Email (Text input)
- Password** (Label) / password (Text input)
- Confirm Password** (Label) / Confirm Password (Text input)
- Submit** (Button)

- as per fill this sign up form students and set username and password but not login students. Admin will approve this students login otherwise admin rejected.

### Admin Login

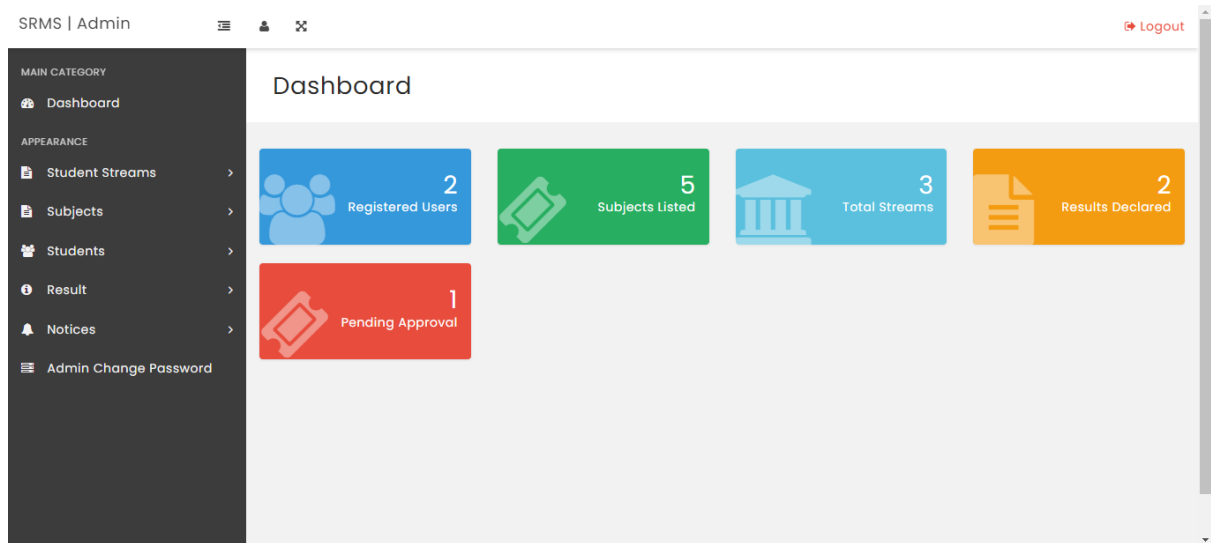


The image shows an 'Admin Login' form with the following fields and elements:

- Admin Login** (Title)
- Username** (Label) / admin (Text input)
- Password** (Label) / ..... (Text input)
- Sign in** (Button) with a checkmark icon
- Go to home page? [Home page.](#)
- Student Result Management System (Footer)

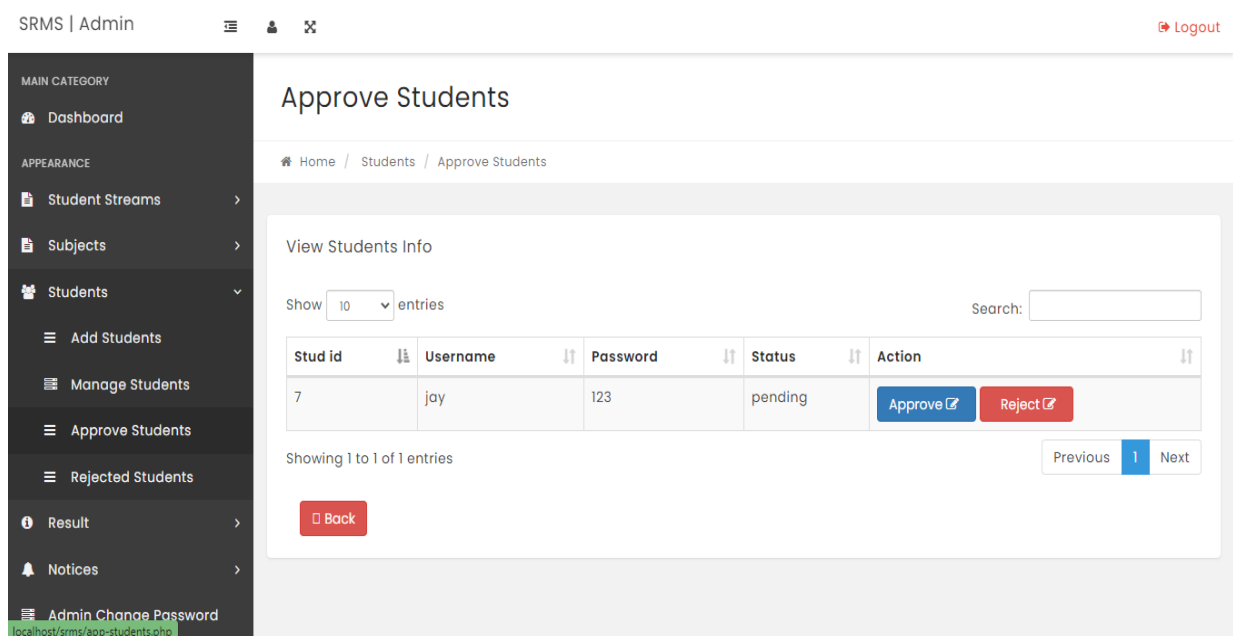
# Student Result Management System

## Admin Dashboard



- Admin are handles all the information of students.

## Admin Approve Student



- Admin are approve new students to allow use this system.

# Student Result Management System

## Rejected Students

SRMS | Admin Logout

MAIN CATEGORY

- Dashboard

APPEARANCE

- Student Streams
- Subjects
- Students
- Result
- Notices
- Admin Change Password

### Reject Students

Home / Students / Reject Students

View Students Info

Show 10 entries Search:

Stud id	Username	Password	Status	Action
9	yug	123	rejected	<a href="#">Approve</a> <a href="#">Remove</a>

Showing 1 to 1 of 1 entries

[Previous](#) [1](#) [Next](#)

[Back](#)

- Rejected Student are not login to this system.

## Create / Add Stream

SRMS | Admin Logout

MAIN CATEGORY

- Dashboard

APPEARANCE

- Student Streams
- Subjects
- Students
- Result
- Notices
- Admin Change Password

### Create Student Stream

Home / Student Streams / Create Stream

Create Student Stream

Stream

Select

Eg- BCA, BBA, MSC-IT etc

Semester

Select

Eg- 1,2,5 etc

Section

Select

Eg- A,B,C etc

[Submit](#) [Back](#)

- Add student streams admin.



# Student Result Management System

## Manage Stream

SRMS | Admin Logout

MAIN CATEGORY

- Dashboard

APPEARANCE

- Student Streams
- Subjects
- Students
- Result
- Notices
- Admin Change Password

### Manage Streams

Home / Student Stream / Manage Stream

View Streams Info

[Add](#)

Show 10 entries Search:

Id	StreamName	Semester	Section	Creation Date	Action
1	BCA	1	A	2023-02-27 17:13:59	<a href="#">Edit</a> <a href="#">Del</a>
2	BBA	5	A	2023-02-27 17:14:45	<a href="#">Edit</a> <a href="#">Del</a>
3	MSC-IT	4	A	2023-02-27 17:15:10	<a href="#">Edit</a> <a href="#">Del</a>

Showing 1 to 3 of 3 entries

[Previous](#) [1](#) [Next](#)

- Admin are manage students different streams update and deletes.

## Add Subjects

SRMS | Admin Logout

MAIN CATEGORY

- Dashboard

APPEARANCE

- Student Streams
- Subjects
- Students
- Result
- Notices
- Admin Change Password

### Subject Creation

Home / Subjects / Create Subject

Create Subject

Subject Name

Subject Code

[Submit](#) [Back](#)

- Add New Subjects Admin.

# Student Result Management System

## Manage Subjects

The screenshot shows the 'Manage Subjects' page in the SRMS Admin interface. The left sidebar contains a 'MAIN CATEGORY' section with 'Dashboard' and an 'APPEARANCE' section with 'Student Streams', 'Subjects', 'Students', 'Result', 'Notices', and 'Admin Change Password'. The main content area has a breadcrumb trail 'Home / Subjects / Manage Subjects' and a title 'Manage Subjects'. Below the title is a 'View Subjects Info' section with an 'Add' button. A table displays a list of subjects with columns for 'Id', 'Subject Name', 'Subject Code', 'Creation Date', 'Updation Date', and 'Action'. The table contains four rows of data. Below the table is a search bar and a 'Show 10 entries' indicator.

Id	Subject Name	Subject Code	Creation Date	Updation Date	Action
1	JAVA	1	2023-02-27 17:16:34		<a href="#">Edit</a> <a href="#">Del</a>
2	Oracle-II	2	2023-02-27 17:16:45		<a href="#">Edit</a> <a href="#">Del</a>
3	Network Security	3	2023-02-27 17:17:00		<a href="#">Edit</a> <a href="#">Del</a>
4	Project	4	2023-02-27 17:17:09		<a href="#">Edit</a> <a href="#">Del</a>

- Update/delete Subjects admin.

## Add Subject Combination

The screenshot shows the 'Add Subject Combination' page in the SRMS Admin interface. The left sidebar is identical to the previous screenshot. The main content area has a breadcrumb trail 'Home / Subjects / Add Subject Combination' and a title 'Add Subject Combination'. Below the title is a form with two dropdown menus: 'Streams' (labeled 'Select Streams') and 'Subject' (labeled 'Select Subject'). Below the dropdowns are 'Add' and 'Back' buttons.

- Select Streams, and add stream related subjects by admin.

# Student Result Management System

## Manage Subject Combination

SRMS | Admin

Logout

MAIN CATEGORY

Dashboard

APPEARANCE

Student Streams

Subjects

Students

Result

Notices

Admin Change Password

### Manage Subjects Combination

Home / Subjects / Manage Subjects Combination

View Subjects Combination Info

Add

Show 10 entries

Search:

id	Stream and Section	Subject	Status	Action
1	BCA Section-A	JAVA	Active	<a href="#">✕</a>
2	BCA Section-A	Oracle-II	Active	<a href="#">✕</a>
3	BCA Section-A	Network Security	Active	<a href="#">✕</a>
4	BCA Section-A	Project	Active	<a href="#">✕</a>

Showing 1 to 4 of 4 entries

Previous 1 Next

## Add Student

SRMS | Admin

Logout

MAIN CATEGORY

Dashboard

APPEARANCE

Student Streams

Subjects

Students

Result

Notices

Admin Change Password

### Student Admission

Home / Student Admission

Fill the Student info

Student Name

Roll No

Email id

Mobile No

Gender

Stream

DOB

Male

Female

Other

Select Stream

dd-mm-yyyy

Add Cancel

- Add new students admin fill this admission form.

# Student Result Management System

## Manage Student

SRMS | Admin Logout

**MAIN CATEGORY**

- Dashboard

**APPEARANCE**

- Student Streams
- Subjects
- Students
- Result
- Notices
- Admin Change Password



### Manage Students

Home / Students / Manage Students

View Students Info

[Add](#)

Show  entries Search:

Stud Id	Stud Image	Stud Name	Roll No	Stream	Stud Email	Mobile No	Reg Date	Status	Action
1		Hiren Parmar	3	BCA(A)	hirenparmar5105@gmail.com	9313688860	2003-08-28 00:00:00	Active	<a href="#">Update</a> <a href="#">Delete</a>
2		aman	10	BCA(A)	aman@gmail.com	7898494435	2002-10-12 00:00:00	Active	<a href="#">Update</a> <a href="#">Delete</a>

- Edit/delete students info admin rights.

## Add/Create Result

SRMS | Admin Logout

**MAIN CATEGORY**

- Dashboard

**APPEARANCE**

- Student Streams
- Subjects
- Students
- Result
- Notices
- Admin Change Password

### Declare Result

Home / Student Result

Stream

Student Name

Subjects

[Declare](#) [Cancel](#)

- Create student result admin.

# Student Result Management System

## Manage Result

SRMS | Admin

Logout

MAIN CATEGORY

Dashboard

APPEARANCE

Student Streams

Subjects

Students

Result

Notices

Admin Change Password

Manage Results

Home / Results / Manage Results

View Students Result Info

Add

Show 10 entries

Search:

id	Student Name	Roll No	Stream	Reg Date	Status	Action
1	Hiren Parmar	1	BCA(A)	2023-02-27 17:24:51	Active	<a href="#">Edit</a> <a href="#">Del</a>
2	Aman	2	BCA(A)	2023-02-27 17:26:01	Active	<a href="#">Edit</a> <a href="#">Del</a>
3	Ajay	3	MCOM(A)	2023-03-02 19:58:42	Active	<a href="#">Edit</a> <a href="#">Del</a>

Showing 1 to 3 of 3 entries

Previous 1 Next

Manage students results easily by admin.

## Add Notice

SRMS | Admin

Logout

MAIN CATEGORY

Dashboard

APPEARANCE

Student Streams

Subjects

Students

Result

Notices

Admin Change Password

Add Notice

Home / Notices / Add Notice

Add Notice

Notice Title

BCA SEM-6 EXAM FORM

Notice Details

All the students are fill Exam form during 1-3-23 to 13-3-23.

Add

Cancel

- Add new notice admin.

# Student Result Management System

## Update/Delete Notice

SRMS | Admin Logout

**MAIN CATEGORY**

- Dashboard

**APPEARANCE**

- Student Streams
- Subjects
- Students
- Result
- Notices
- Admin Change Password

### Manage Notices

Home / Notices / Manage Notices

View Notices Info

[Add](#)

Show  entries Search:

id	Notice Title	Notice Details	Creation Date	Action
1	Exam Notice	BCA SEM-6 exam starting date is 23/03/2023	2023-02-27 17:28:35	<a href="#">Delete</a>
2	Test Notice	From bca sem-6 class follows Network Security Test date is 28/2/23.	2023-02-27 17:29:49	<a href="#">Delete</a>
3	BCA SEM-6 EXAM FORM	All the students are fill Exam form during 1-3-23 to 13-3-23.	2023-03-02 20:02:41	<a href="#">Delete</a>

Showing 1 to 3 of 3 entries

[Previous](#) [1](#) [Next](#)

Updates or deletes notices by admin easily.

## Admin Change Password

SRMS | Admin Logout

**MAIN CATEGORY**

- Dashboard

**APPEARANCE**

- Student Streams
- Subjects
- Students
- Result
- Notices
- Admin Change Password

### Admin Change Password

Home / Admin change password

Admin Change Password

Current Password

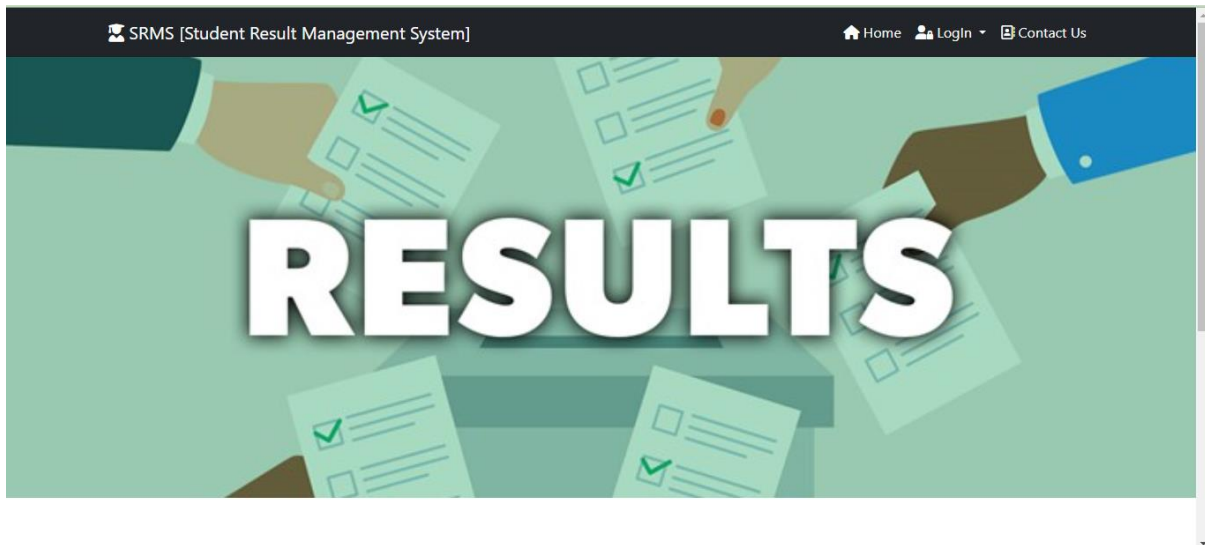
New Password

Confirm Password

[Change](#) [Cancel](#)

- Admin change password using current password and new password.

## Logout admin



- Admin while logout to redirect this home page.

## Student Login

Student Login

Username

Password

Don't have an account? Sign up now.

Student Result Management System

- Student login to your username and password.
- Then, show student dashboard.

# Student Result Management System

## Student Dashboard

The screenshot shows the 'Student Dashboard' of the SRMS system. The top navigation bar includes 'SRMS | Student', a menu icon, a user icon, and a 'Logout' button. A dark sidebar on the left contains a 'MAIN CATEGORY' section with 'Dashboard' and an 'APPEARANCE' section with links for 'View Streams', 'View Subjects', 'View Notices', 'View Results', and 'Students Change Password'. The main content area is titled 'Dashboard' and features four colored cards: 'Total Streams' (3), 'Subjects List View' (5), 'Registered Stud' (2), and 'Results Declared' (2). Each card has a corresponding icon (building, book, group of people, and document respectively).

- Students show different types of streams, subjects, notices, and results etc. facilities to our system.

## View Streams

The screenshot shows the 'View Streams' page. The top navigation bar is identical to the dashboard. The sidebar is also identical. The main content area is titled 'View Streams' and includes a breadcrumb 'Home / View Streams'. Below this is a 'View Streams Info' section with a 'Show 10 entries' dropdown and a 'Search:' input field. A table displays the following data:

Id	StreamName	Semester	Section	Creation Date
1	BCA	1	A	2023-02-27 17:13:59
2	BBA	5	A	2023-02-27 17:14:45
3	MSC-IT	4	A	2023-02-27 17:15:10

Below the table, it says 'Showing 1 to 3 of 3 entries'. At the bottom right of the table area are 'Previous', '1' (active), and 'Next' buttons.

- Students view all streams.



# Student Result Management System

## View Subjects

SRMS | Student Logout

MAIN CATEGORY

- Dashboard

APPEARANCE

- View Streams
- View Subjects
- View Notices
- View Results
- Students Change Password

### View Subjects

Home / View Subjects

View Subjects Info

Show  entries Search:

id	Subject Name	Subject Code	Creation Date	Updation Date
1	JAVA	1	2023-02-27 17:16:34	
2	Oracle-II	2	2023-02-27 17:16:45	
3	Network Security	3	2023-02-27 17:17:00	
4	Project	4	2023-02-27 17:17:09	
5	OS	5	2023-02-28 10:40:37	

Showing 1 to 5 of 5 entries Previous **1** Next

➤ Students view all subjects.

## + View/Download Result :

### Step-1(Search result Students)

Student Result Management System

Enter Seat No

1

Stream

BCA Section-A

Search ✓


LogOut

Student Result Management System

➤ Student enter your roll number and select stream to find result.

# Student Result Management System

## Step-2(view result)



**MAHARAJA KRISHNAKUMARSINHJI BHAVNAGAR UNIVERSITY**  
sept-oct-2022  
**PROVISIONAL MARKSHEET**

STUDENT DETAILS

**STUDENT NAME :** Hiren Parmar  
**COLLEGE:** SMT. K. B. PAREKH B.C.A. COLLEGE,MAHUVA  
**STUDENT SEAT NO :** 1  
**STUDENT STREAM:** BCA( A)

RESULT DETAILS

#	SUBJECT	MARKS
1	JAVA	60
2	Network Security	55
3	Oracle-II	52


➤ View reslt students.

## Step-3(click to print result)

**COLLEGE:** SMT. K. B. PAREKH B.C.A. COLLEGE,MAHUVA  
**STUDENT SEAT NO :** 1  
**STUDENT STREAM:** BCA( A)

RESULT DETAILS

#	SUBJECT	MARKS
1	JAVA	60
2	Network Security	55
3	Oracle-II	52
4	Project	53
<b>GRAND TOTAL</b>		<b>220 out of 400</b>
<b>Percentage</b>		<b>55 %</b>
<b>Grade</b>		<b>C</b>

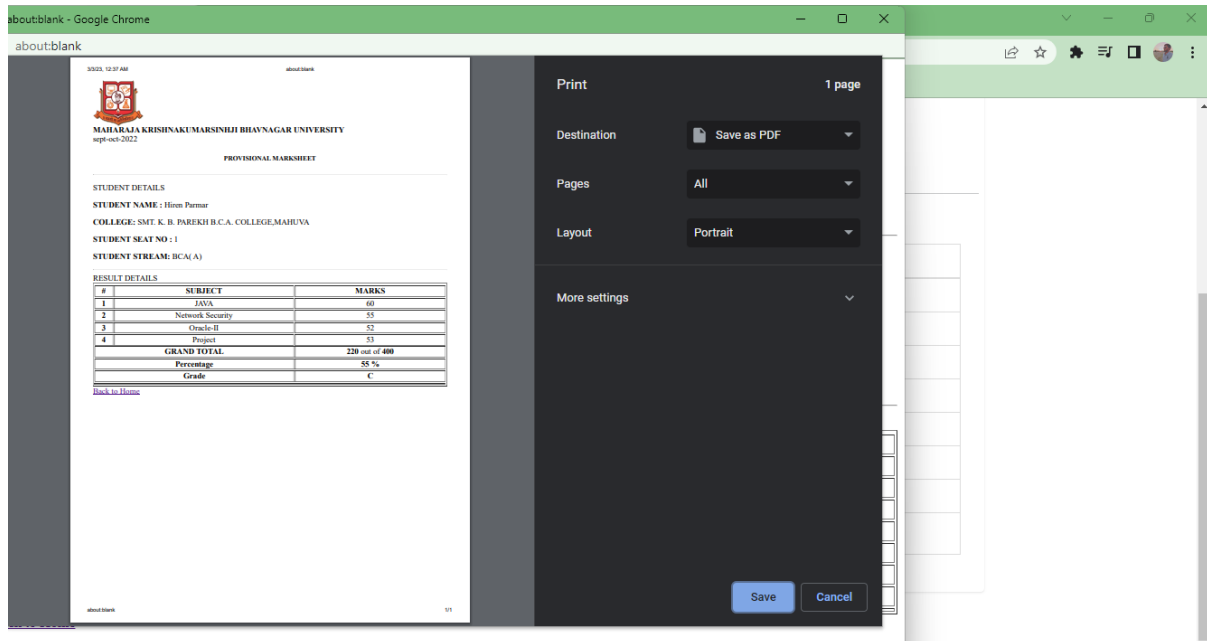


[Back to Home](#)

➤ Students click print button to download results.

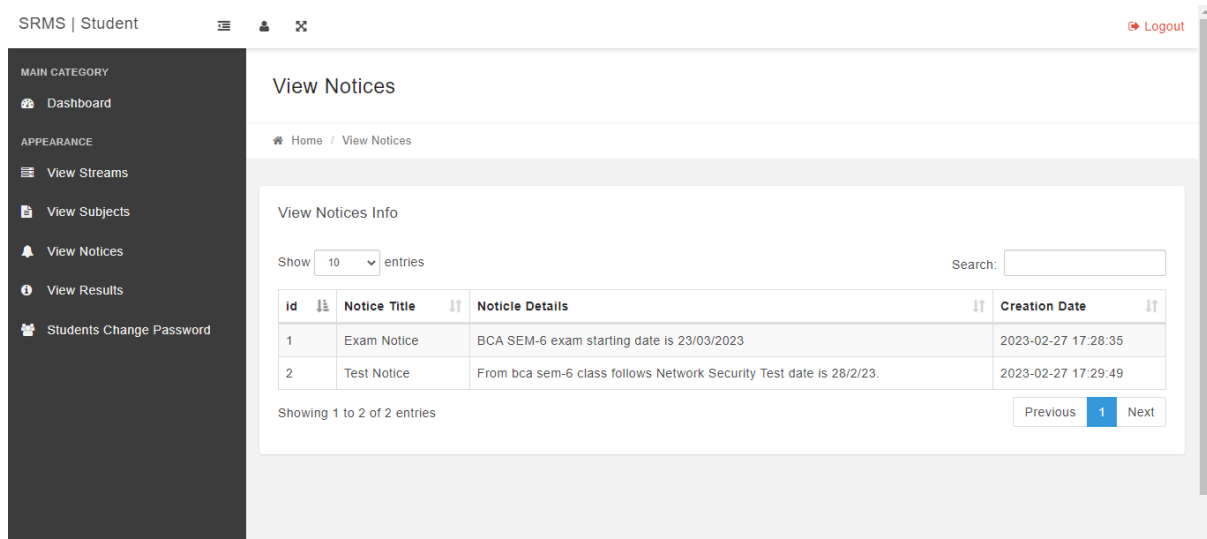
# Student Result Management System

## Step-4(download/save result)



- Students are download result easily in .pdf format.

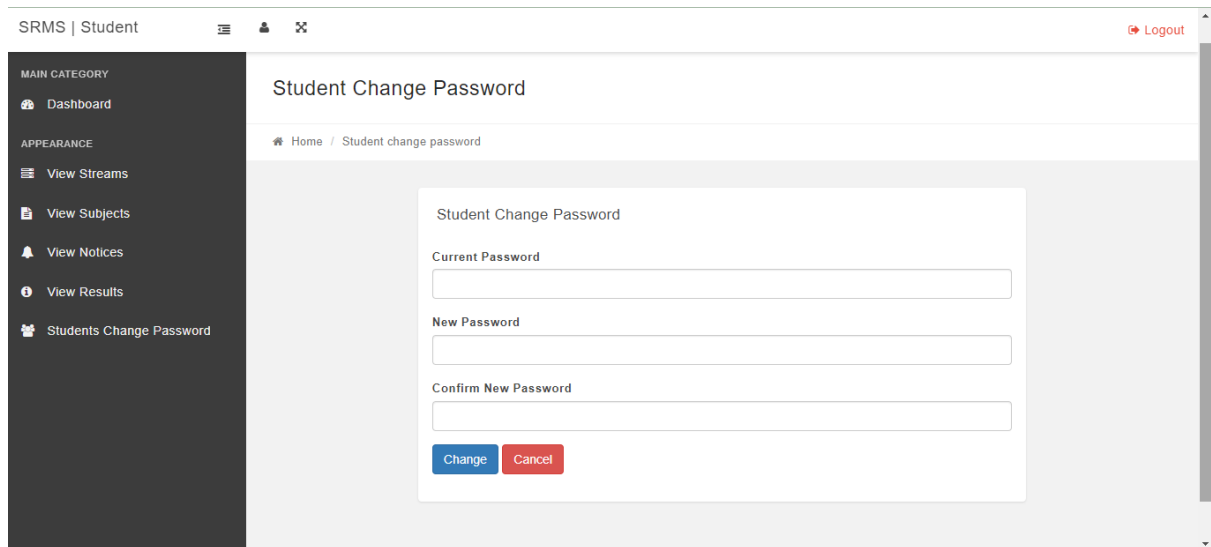
## View Notices student



- Students are view notices easily.

# Student Result Management System

## Change Password Students

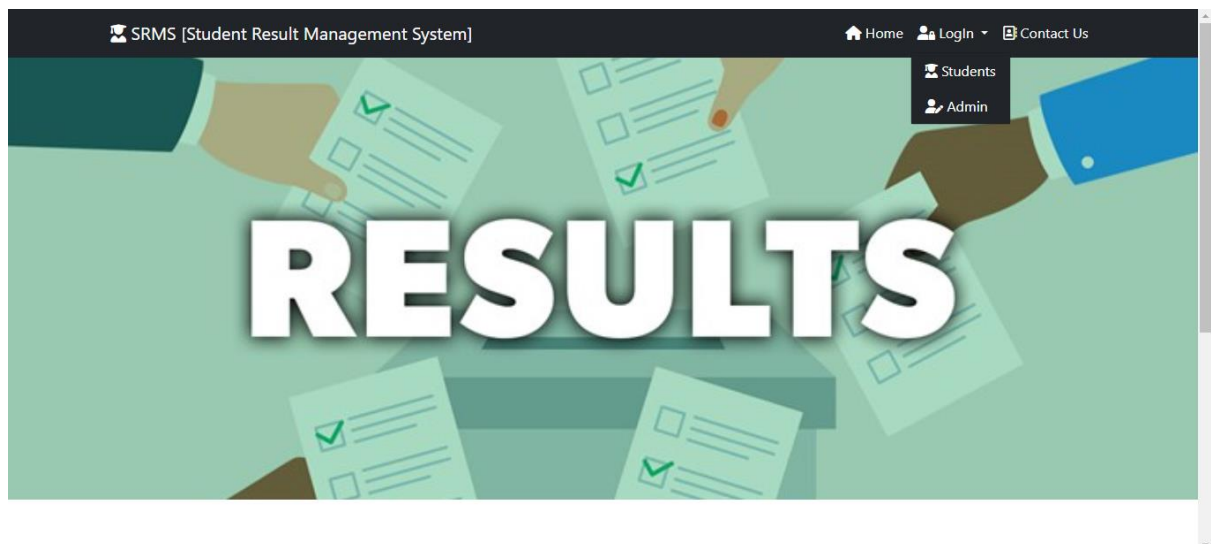


The screenshot shows the 'Student Change Password' page in the SRMS system. The page has a dark sidebar on the left with a menu containing 'Dashboard', 'View Streams', 'View Subjects', 'View Notices', 'View Results', and 'Students Change Password'. The main content area is titled 'Student Change Password' and contains a form with three input fields: 'Current Password', 'New Password', and 'Confirm New Password'. Below the fields are two buttons: 'Change' (blue) and 'Cancel' (red). The top navigation bar includes 'SRMS | Student' and a 'Logout' link.

- Students are fill this form to change password.

## Student Logout

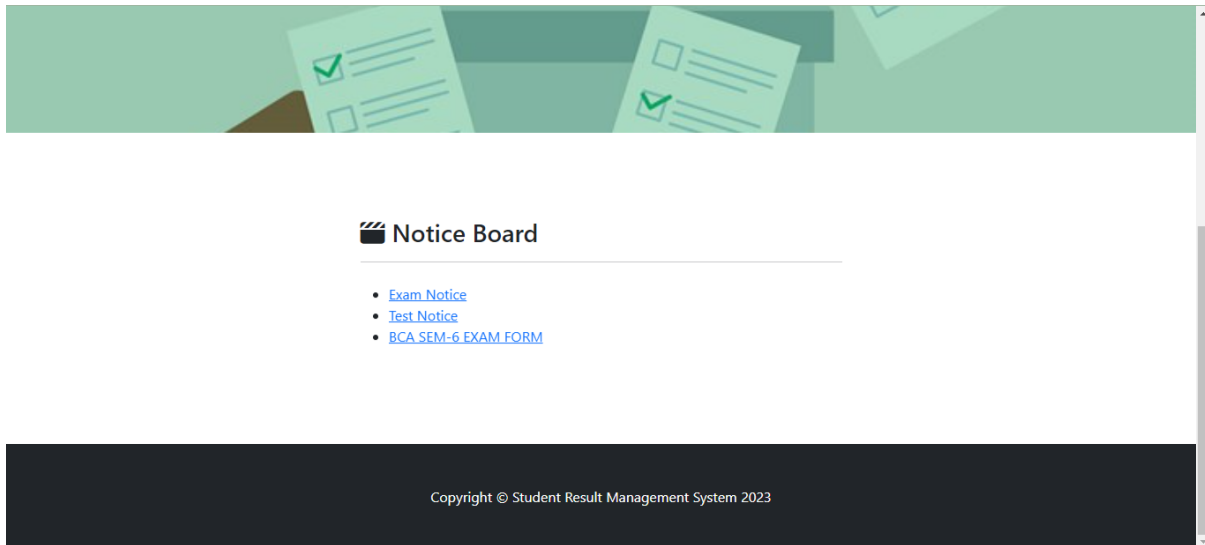
### Home Page :



- This is home page our student result management system.

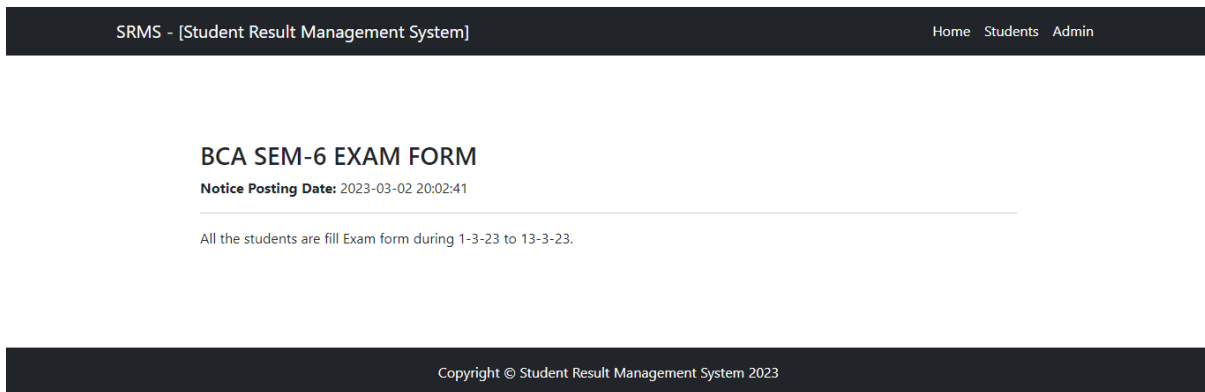
# Student Result Management System

## Notice Board :



- In our home page show noticeboard to read notice any students easily.

## View Notice :



Students View Notice in detailed.

## ➤ Contact Page :

The screenshot shows a web page titled "Contact Form". It features a blue header with the text "Write us" and "Your message was sent, thank you!". Below this, there are input fields for "Name", "Email", "Subject", and "Message". A red "Send Message" button is positioned below the "Message" field. To the right of the form, under the heading "Contact information", there is a message: "We're open for any suggestion or just to have a chat". Below this, there is a location pin icon followed by the address: "Address: Near Bus Stop, Dudhala No-2, Ta-Mahuva, Di-Bhavnagar-364280 . vasilalav,suvidha valo khancho, vala traller near, mahuva-364290". There is also a phone icon followed by the phone number: "Phone: + 9313 6888 60 + 9773 0276 28". Below the phone number, there is an email icon followed by the email address: "Email: hirenparmar5105@gmail.com amanbambhaniya9924@gmail.com". At the bottom of the contact information section, there is a website icon followed by the website URL: "Website https://". The page has a "Home" link at the bottom left.

This page is contact page to our system related queries or issues.

## **Chapter-5**

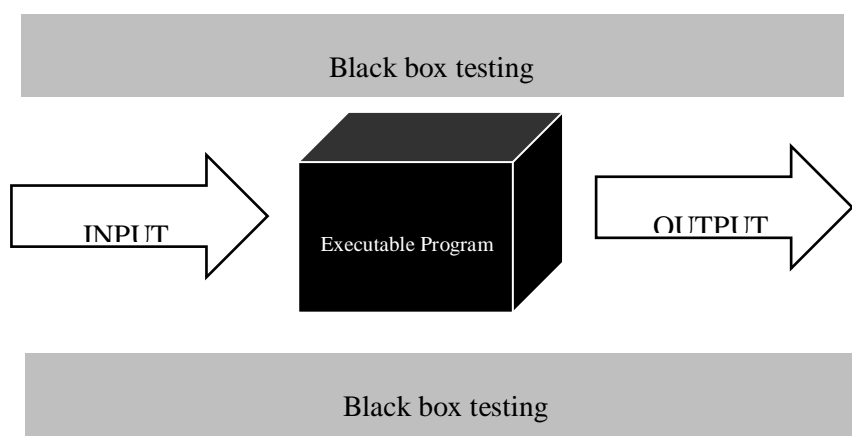
# **Testing And Implementation**

## **1. Testing Approaches Used**

- The engineer creates a series of test cases that are intended to “demolish” the software that has been built.
- In fact, testing is the one step in the software process that could be viewed as destructive rather than constructive.
- There are different three approaches are used for testing are as follow:
  - A. Black box testing
  - B. White box testing
  - C. Gray box testing

### **Black Box Testing**

- Black Box Testing, also known as Behavioral Testing.
- It is a software testing method in which the internal structure/design/implementation of the item being tested is not known to the tester.
- These tests can be functional or non-functional, though usually functional.





- **Levels Applicable To:**

- Black Box Testing method is applicable to the following levels of software testing:

- I. Integration Testing
- II. System Testing
- III. Acceptance Testing

- **Advantages:**

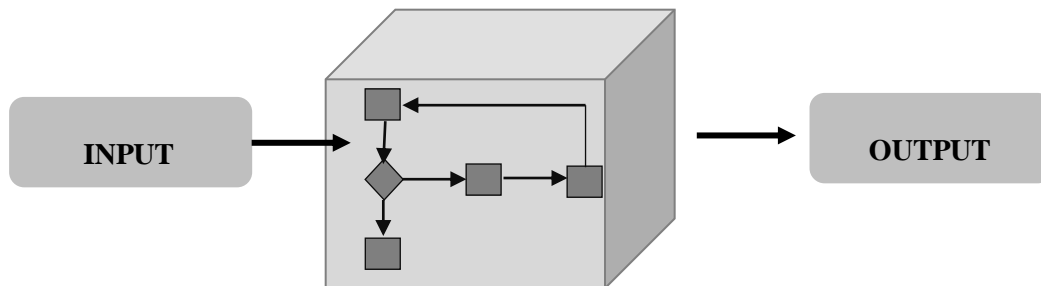
- Tests are done from a user's point of view and will help in identifying drawbacks of system.
- Tester need not know programming languages or how the software has been implemented.
- Tests can be conducted by a body independent from the developers.
- Test cases can be designed as soon as the specifications are complete.

- **Disadvantages:**

- Only a small number of possible inputs can be tested and many program paths will be left untested.
- Test cases will be difficult to design.

### **White Box Testing**

- White Box Testing also known as Clear Box Testing, Open Box Testing, Glass Box Testing, Transparent Box Testing, Code-Based Testing or Structural Testing.
- It is a software testing method in which the internal structure/design/implementation of the item being tested is known to the tester.
- The tester chooses inputs to exercise paths through the code and determines the appropriate outputs.
- Programming know-how and the implementation knowledge is essential.
- This method is named so because the system (in the eyes of the tester) is like a white/transparent box; inside which one clearly sees.



- **Levels Applicable To:**

- White Box Testing method is applicable to the following levels of software testing:
  - I. Unit Testing
  - II. Integration Testing
  - III. System Testing

- **Advantages:**

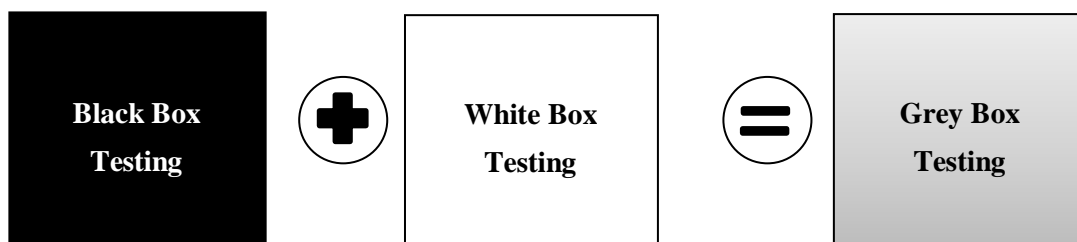
- Testing can be commenced at an earlier stage.
- One need not wait for the GUI to be available.

- **Disadvantages:**

- Since tests can be very complex, highly skilled resources are required.
- Test script maintenance can be a burden if the implementation changes too frequently.

### **Gray Box Testing**

- Grey Box Testing is a software testing method which is a combination of Black Box Testing method and White Box Testing method.
- In Black Box Testing, the internal structure of the item being tested is unknown to the tester and in White Box Testing the internal structure is known. In Gray Box Testing, the internal structure is partially known.
- This involves having access to internal data structures and algorithms for purposes of designing the test cases.
- Gray Box Testing is named so because the software program (in the eyes of the tester) is like a gray/semi-transparent box; inside which one can partially see.



- **Levels Applicable to:**

- Though Gray Box Testing method may be used in other levels of testing, it is primarily used in Integration Testing.

- **Advantages:**

- It offers benefits of black box and white box testing whenever required.
- Based on limited information available a gray box tester can design excellent test scenario especially around communication protocol and data type handling.
- The test is done from the point of view of the user; not the designer.

- **Disadvantages:**

- If the access to the source code is not possible then testing coverage is limited.
- It is difficult to associate defects when we perform Grey-box testing for a distributed system.

## 2. Test Cases

# Student Result Management System

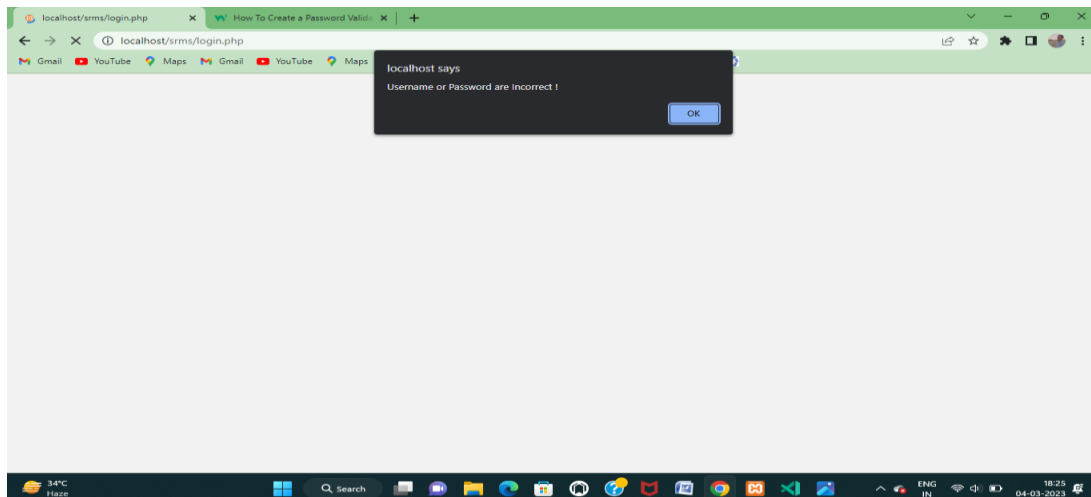
## Test Case – 1

- Test Case Student Registration.

The screenshot shows a registration form titled "Please fill this form to create an account." with the following fields: Username (filled with "hiren"), Mobile No (filled with "9313688860"), Email Id (filled with "hiren@gmail.com"), Password (filled with "..."), and Confirm Password (filled with "Confirm Password"). A blue "Submit" button is at the bottom left. A yellow tooltip with an exclamation mark icon and the text "Please fill out this field." points to the Confirm Password field. Below the form, there is a link: "Already have an account? Login here."

## Test Case – 2 (Login)

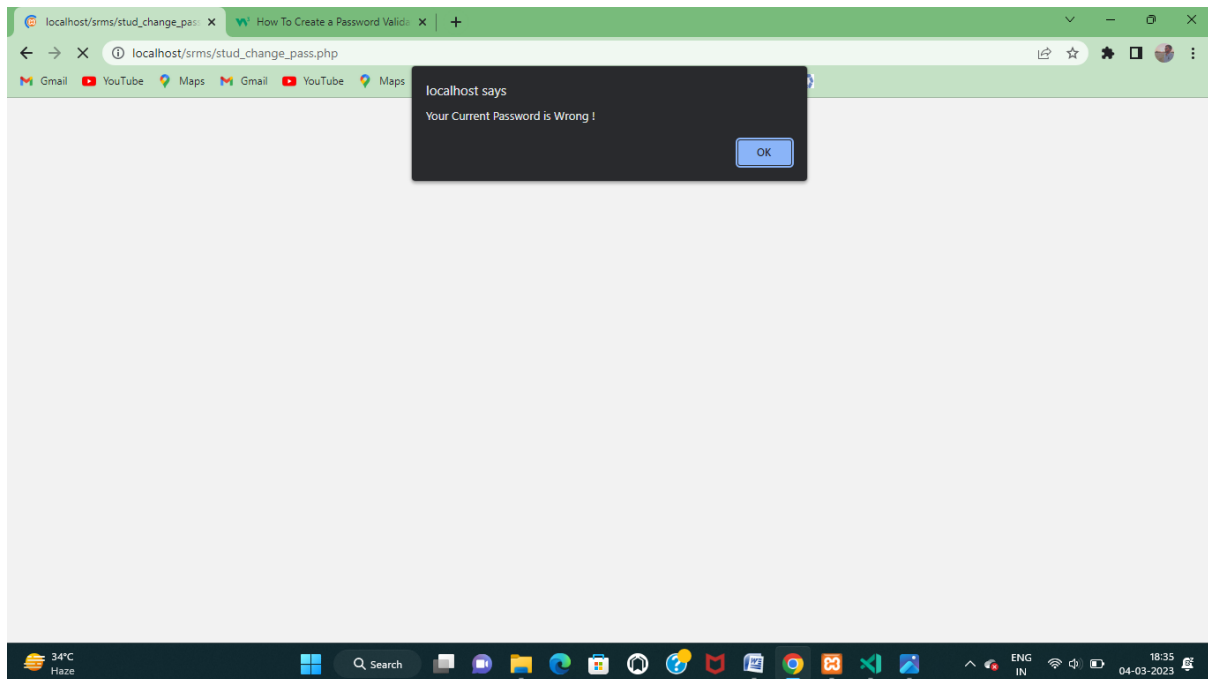
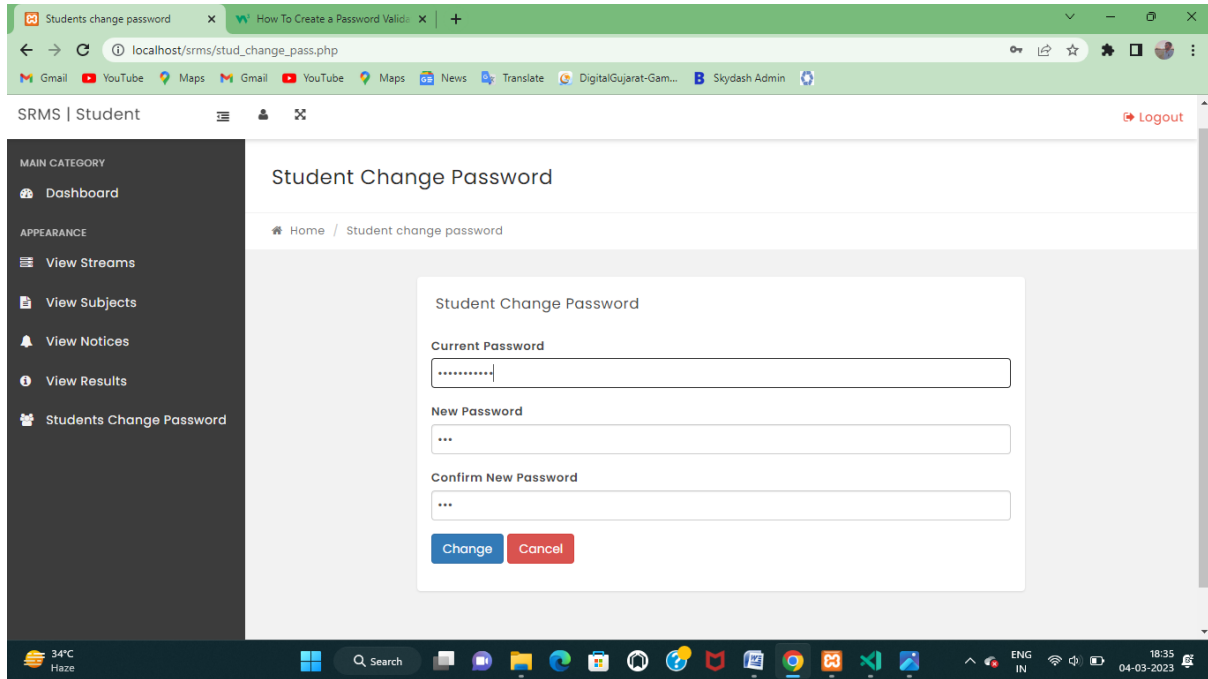
The screenshot shows a login form titled "Student Login" with the following fields: Username (filled with "gsdktvck") and Password (filled with "\*\*\*\*\*"). A blue "Log in" button is at the bottom left. Below the form, there is a link: "Don't have an account? Sign up now." The footer of the form says "Student Result Management System".



# Student Result Management System

## Test Case – 3

### Change Password Validation .



# Student Result Management System

## Test Case – 4

The screenshot displays the SRMS Admin interface in a web browser. The browser's address bar shows the URL `localhost/srms/add-result.php`. The page title is "SRMS | Admin". On the left, a sidebar menu lists "MAIN CATEGORY" (Dashboard) and "APPEARANCE" (Student Streams, Subjects, Students, Result, Notices, Admin Change Password). The main content area is titled "Declare Result" and shows a breadcrumb "Home / Student Result". The form contains the following fields:

- Stream:** A dropdown menu with "BCA Section-A" selected.
- Student Name:** A dropdown menu with "Hiren Parmar" selected.
- Result Already Declare .** A red error message.
- Subjects:** A section with three input fields:
  - JAVA:** "Enter marks out of 100"
  - Network Security:** "Enter marks out of 100"
  - Oracle-II:** "Enter marks out of 100"
- Project:** An input field (partially visible).

The Windows taskbar at the bottom shows the date and time as 04-03-2023, 18:42, and the weather as 34°C Haze.

### **3. Implementation Approaches**

- There are a variety of options that a project manager could consider when implementing a solution.
- There are advantages and disadvantages to each type and the choice usually depends on the faculty organizational setup and the complexity of the solution to be implemented.
- These implementation choices available to a project manager are:
  - A. Parallel Implementation
  - B. Phased Implementation

#### **Parallel Implementation**

- A parallel implementation or approach implies that a new solution is implemented parallel to the current operating system in use.
- Those who are using the system will not see major downtime once it is implemented. The trick here is to implement the system.
- Once the new solution is tested and up and running, it is “switched” on and the older version is “switched” off.
- The advantages with a parallel implementation include:
  - Less disruption to the business
  - No loss of business if the new system suddenly fails.

#### **Phased Implementation:**

- Sometimes trying to implement a solution all at once is not feasible because many clients have essential operations that run during normal working hours and cannot afford the luxury of having their entire operation close down for a lengthy period of time.



## Student Result Management System

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- Often, clients have front office staffs that attend to these operations (such as Call centers, Help Desks, etc.), and they work in 24-hour shifts. This is why many clients approve of a phased implementation approach, and the project team must ensure that the phased implementation is possible.
- This approach involves implementing the solution to a certain number of users and then rolling them onto the new solution, while the rest of the users are rolled out in a similar fashion until the entire solution is rolled out within the client environment.
- The phase approach works well because:
  - There is minimum disruption to the client's operation.
  - Problems are resolved quickly.
- The phased approach could also be used if there is more than one department.
- The project manager could decide that implementing the solution in one department at a time could be more reliable than trying to roll out all departments at the same time.

## **Chapter-6**

# **Conclusion**

## **1. Conclusion**

- With the rapid growth of Students, easy to find with use of internet, admin will declare exam and test results.
- However, the availability of online result has produced more educated students that can college around with relative ease without having large amount of time and this facility for Find our result.
- The main goal of student result management system is to offer facility to get result from anywhere and anytime.
- While developing the Student Result Management System a conscious effort has been made to create and develop website by making use of available tools, techniques and resources that would generate a proper website.
- While making the system, an eye has been kept on making it as user-friendly, as cost-effective and as flexible as possible. As such one may hope that the system will be acceptable to any user and will adequately meet his/her needs.
- It also provides ability to maintain day-to-day operations as well as manage students all the informations.
- Every system always have some defects in it and it can be also said this website, so we can say that it is still under modification.

## **2. Limitation**

- Well educated people can visit or understand the content of this site, but non educated person may not visit this site easily. So, this is the common limitation of this system.

## Student Result Management System

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- As of now this system does not have the facility of making fees payments for their college, which will be applied in future.
- Yet there are limited numbers of students for now, but it will be more in the coming future.
- It also does not offer OTP (One Time Password) or email verification scheme for authentication or to reset student password that will be added in future as future development plan.
- It also doesn't generate bill for user order.

### **3. Future Scope of system**

- Multi-language support can be added, so it can be understood by person of any language.
- More graphics can be added to make it more user-friendly and understandable.
- Manage & backup versions of documents online.
- This system will be able to add new more awesome features.

### **4. Bibliography**

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