SOFTWARE ENGINERRING

PROJECT REPORT ON

STUDENT RESULT MANAGEMENT SYSTEM

Submitted by

GROUP 13

AP19110010087 Sellamuthu Abishek

AP19110010074 Bobba Nikhila

AP19110010053 Ede Dhanush Kamal

AP19110010136 Sighakolli Chinmaya Datta

for the course

CSE 305 – Software Engineering

Guided by

Dr. Arnab Mitra

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Abstract

The goal of the Student Result Management System is to automate the present manual system using computerised equipment and full-featured computer software to meet their needs, so that their vital data/information may be saved for a longer period of time with simple access and manipulation. The necessary software and hardware are readily available and simple to use.

As previously said, Student Result Management System may lead to an error-free, secure, dependable, and efficient management system. It might let the user focus on their other tasks rather than maintaining track of their records. As a result, the company will be able to make better use of its resources. The company can keep digital records without having to make duplicate entries. That implies you won't be distracted by irrelevant information while still being able to get to the information you need.

The goal is to automate its current manual method using computerised equipment and full-fledged computer software to meet their needs, so that their important data/information may be saved for a longer period of time with simple access and manipulation. Essentially, the project explains how to manage for high performance and improved customer services.

The "Student Result Management System" was created to address the flaws in the traditional practicing manual system. This software is designed to remove or, in some circumstances, mitigate the difficulties that this system now faces.

Furthermore, this system is designed to the company's specific requirements for smooth and efficient operations.

To eliminate data entry mistakes, the software is kept as simple as possible.

When inputting incorrect data, it also displays an error notice. The user does not require any formal expertise to utilise this system. As a result, it proves that it is user-friendly.

As previously said, a Student Result Management System may lead to an error-free, secure, dependable, and rapid management system.

Introduction

The "Student Result Management System" was created to address the flaws in the traditional practicing manual system. This software is designed to remove or, in some circumstances, mitigate the difficulties that this system now faces.

Furthermore, this system is designed to the company's specific requirements for smooth and efficient operations. To eliminate data entry mistakes, the software is kept as simple as possible. When inputting incorrect data, it also displays an error notice. The user does not require any formal expertise to utilise this system. As a result, it proves that it is user-friendly. As previously said, a Student Result Management System may lead to an error-free, secure, dependable, and rapid management system. It might let the user focus on their other tasks rather than maintaining track of their records. As a result, the organisation will be able to make better use of its resources.

Every organisation, big or little, faces difficulties in maintaining information about results, students, classes, subjects, and semesters. Because each Student Result Management System has unique student requirements, we create custom employee management systems that are adapted to your managerial demands. This is intended to aid strategic planning and guarantee that your organisation has the correct degree of knowledge and specifics for your long-term goals. Our systems also provide remote access options for those busy executives who are always on the road, allowing you to manage your staff at any time. These systems will ultimately allow you to better manage resources.

Literature Review

The key objective of the Student Result Management System project is to manage the details of Student, Result, Subject, Class, Semester. It manages all the information about Student, Subject, Semester, Student. Because the project is entirely constructed at the administrative level, only the administrator has access. The goal of the project is to create an application software that will decrease the amount of time spent manually maintaining Student, Result, Subject. It keeps track of all the information about the Subject, Class, and Semester.

Functionalities provided by Student Result Management System are as follows:

- Provides search capabilities based on a variety of criteria.
- Provides searching facilities based on a variety of criteria.
- Student Result Management System also manages Subject details online for Class details, Semester details, and Student.
- It keeps track of all the information about the result, subject, and class etc.
- Displays the information and description of the Student.
- Displays the information and description of the Student.
- To improve the efficiency of student management,
- It is in charge of keeping track of Class's data and transactions.
- Organize and manage student information. The ability to edit, add, and update records has increased, resulting in better resource management of student data.
- Manage your class's information

Scope:

It may help collecting perfect management in details. The collection will be evident, easy, and rational in a very short time. It also aids in the completion of all existing Student Result Management System projects. The cost of collecting the management will also be decreased, and the collection procedure will run smoothly.

Our project attempts to automate business procedures, which means we've attempted to computerise various processes of Student Result Management System.

System Requirements

Hardware Interfaces:

- Processor: Dual-core CPU
- Hard Disk: 40GB
- RAM: 256MB or more

Software Interfaces:

Front end: HTML, CSS, JavaScript

1. HTML: HTML is used to create and save web documents. E.g. Notepad/Notepad++
2. CSS: (Cascading Style Sheets) Create attractive Layout
3. Bootstrap: responsive design mobile friendly site
4. JavaScript: it is a programming language, commonly used with web browsers.

Back end: PHP, MySQL(requires XAMPP server)

1. PHP: Hypertext Pre-processor (PHP) is a technology that allows software developers to create dynamically generated web pages, in HTML, XML, or other document types, as per client request. PHP is open-source software.
2. MySQL: MySQL is a database, widely used for accessing querying, updating, and managing data in databases.

Admin Features:

1. Admin Dashboard
2. Admin can add/update/ Class
3. Admin can add/update/ Subjects
4. Admin can add/update/ Active/Inactive Subject combination with class
5. Admin can register new student and also edit info of the student
6. admin can declare/ edit the result of a student.
7. Admin can change own password

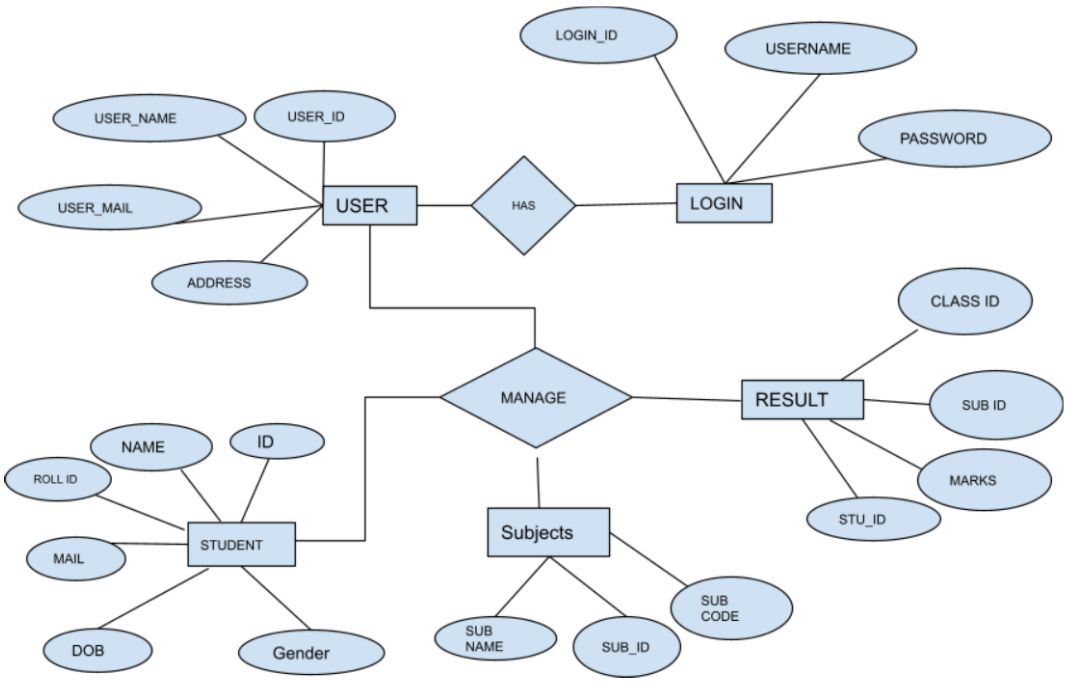
Students Features:

1. Students can search their result using a valid rollid.
2. Students can download the result in the PDF format.

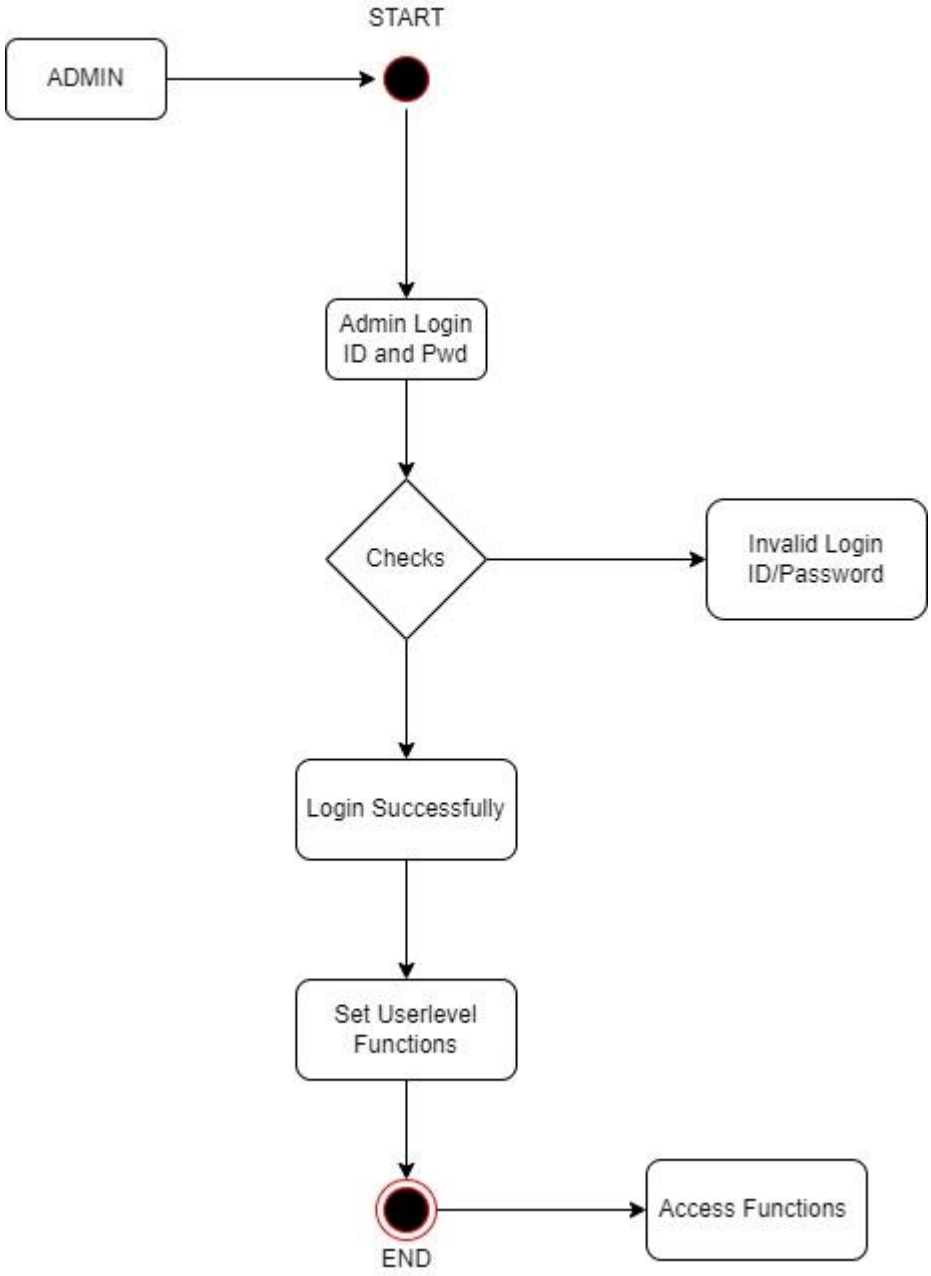
Login Credentials: Username – admin; Password: admin1234

Proposed Scheme

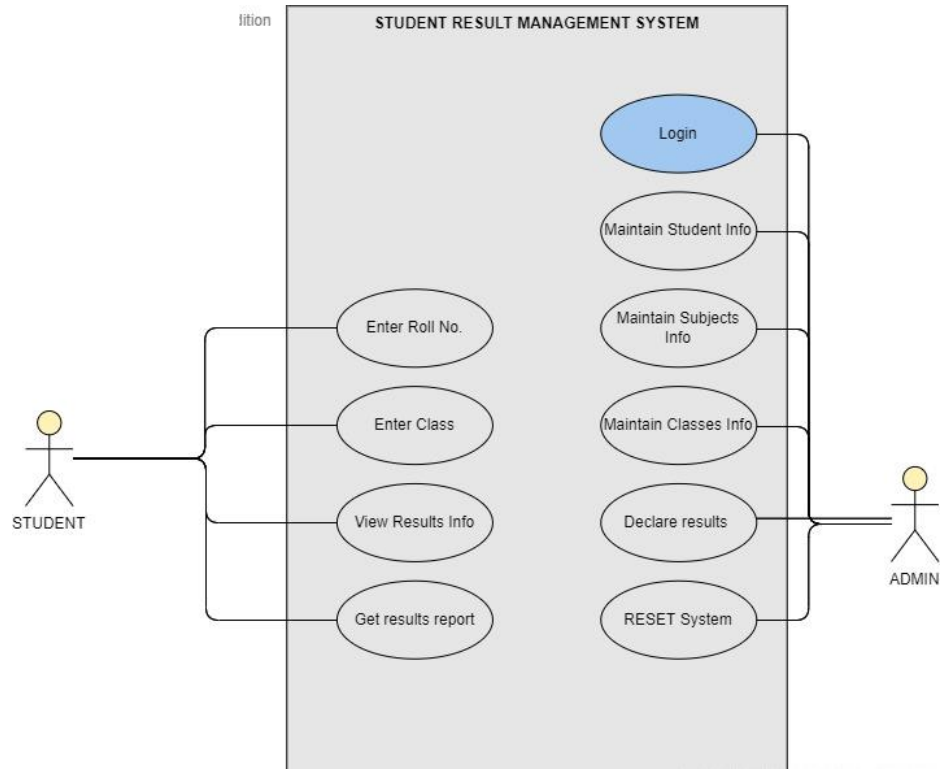
ER DIAGRAM:



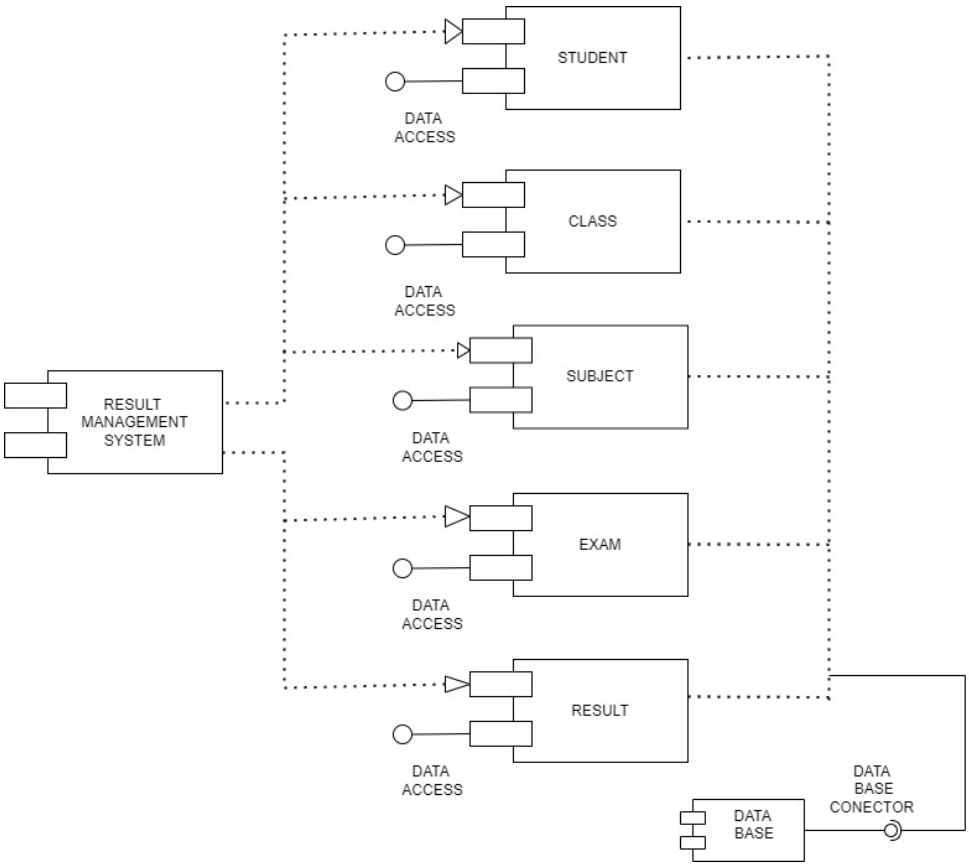
STATE CHART:


START
ADMIN
Admin Login
ID and Pwd
Checks
Invalid Login
ID/Password
Login Successfully
Set Userlevel
Functions
END
Access Functions

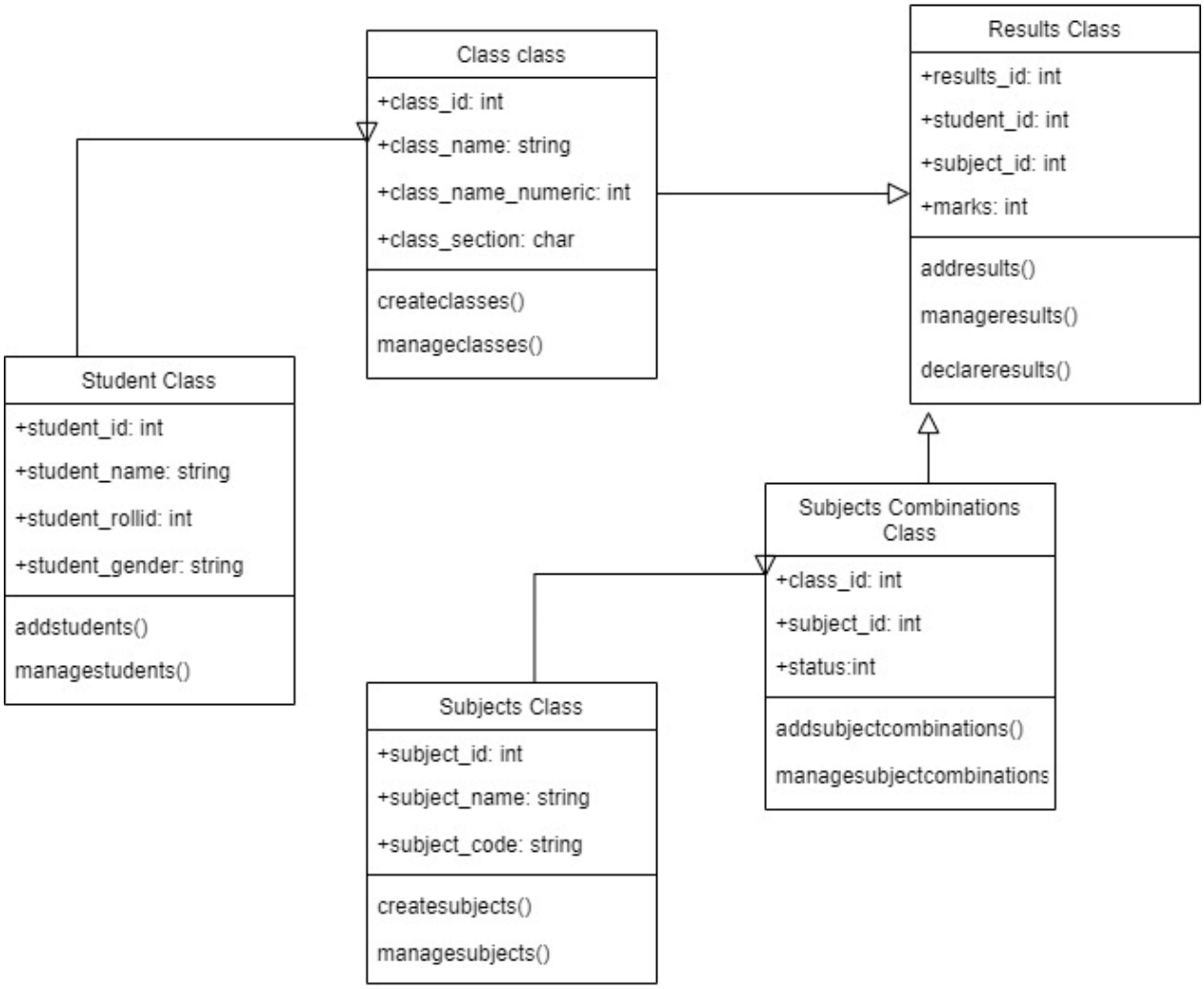
USE CASE DIAGRAM:



COMPONENT DIAGRAM:



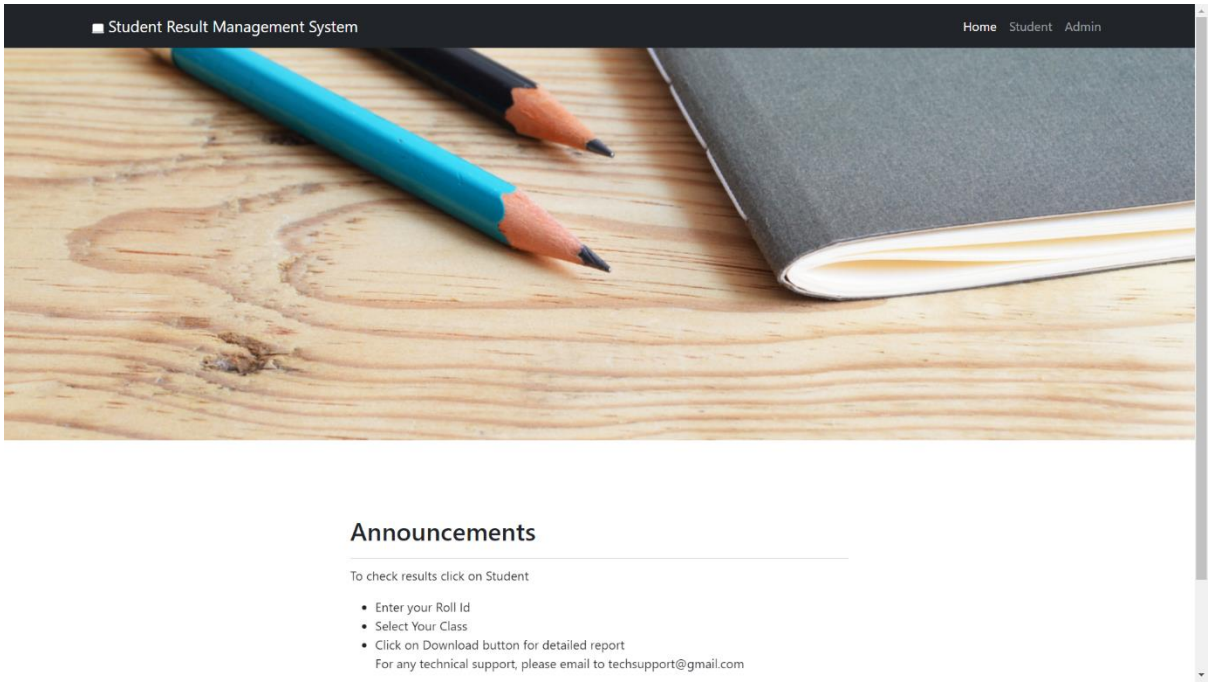
CLASS DIAGRAM:



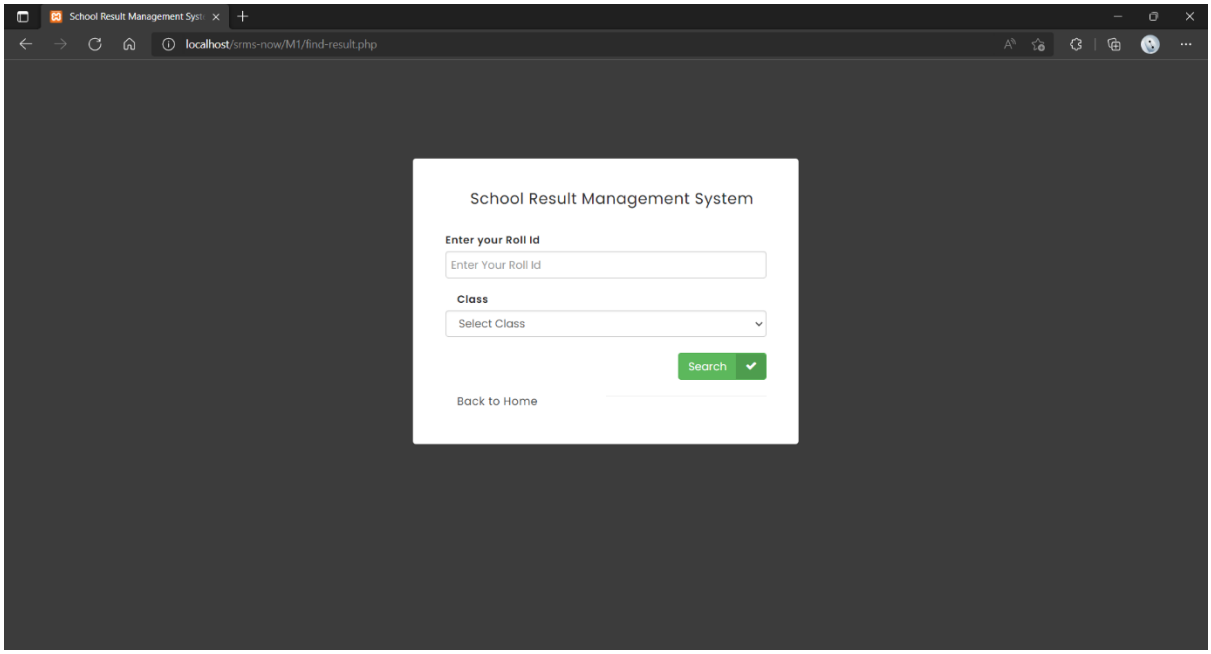
Results and Screenshots

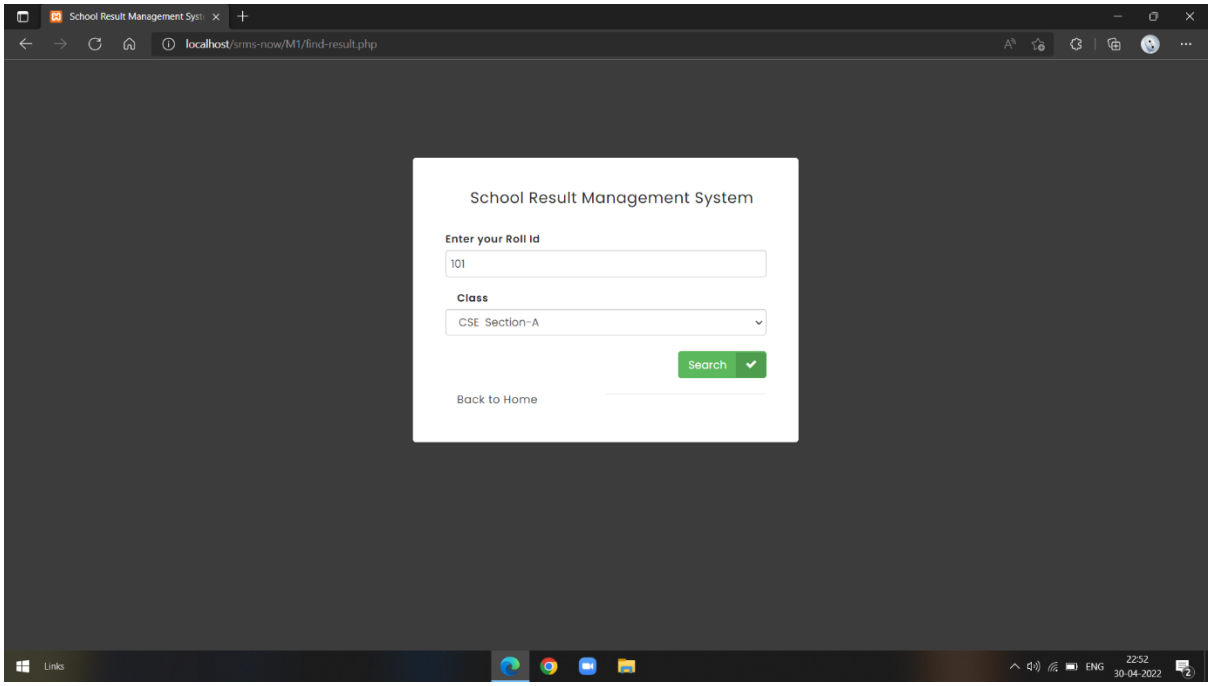
Frontend (Webpage):

Homepage:

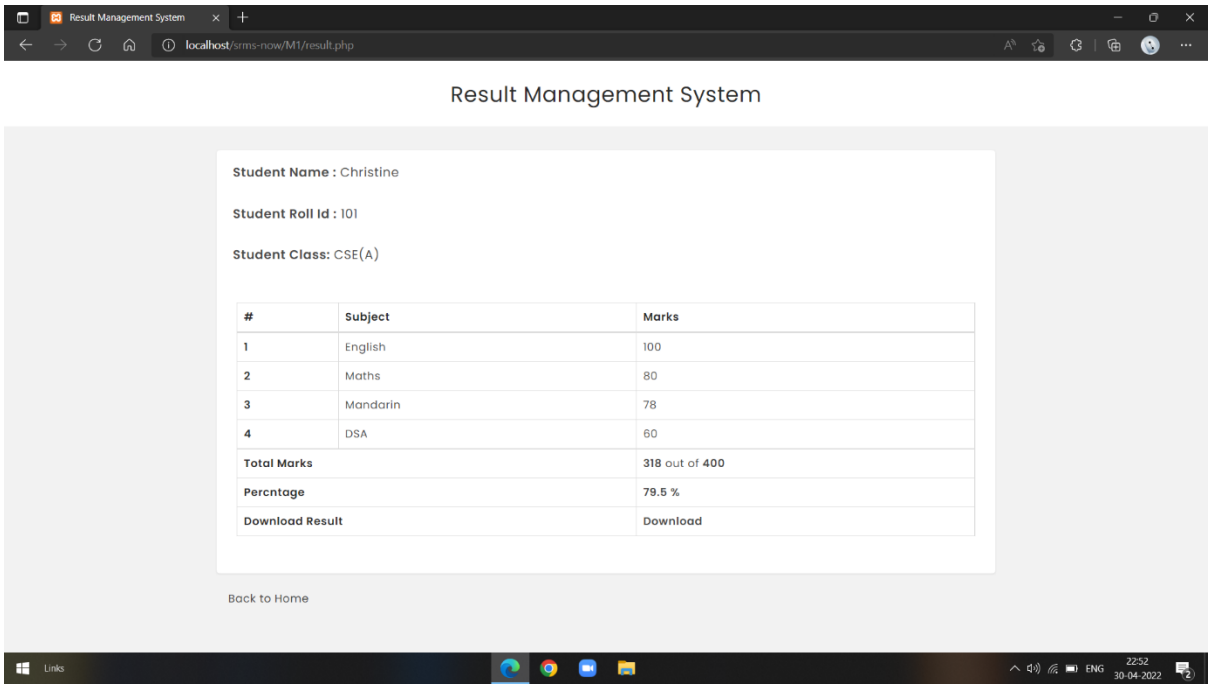


Student login page:

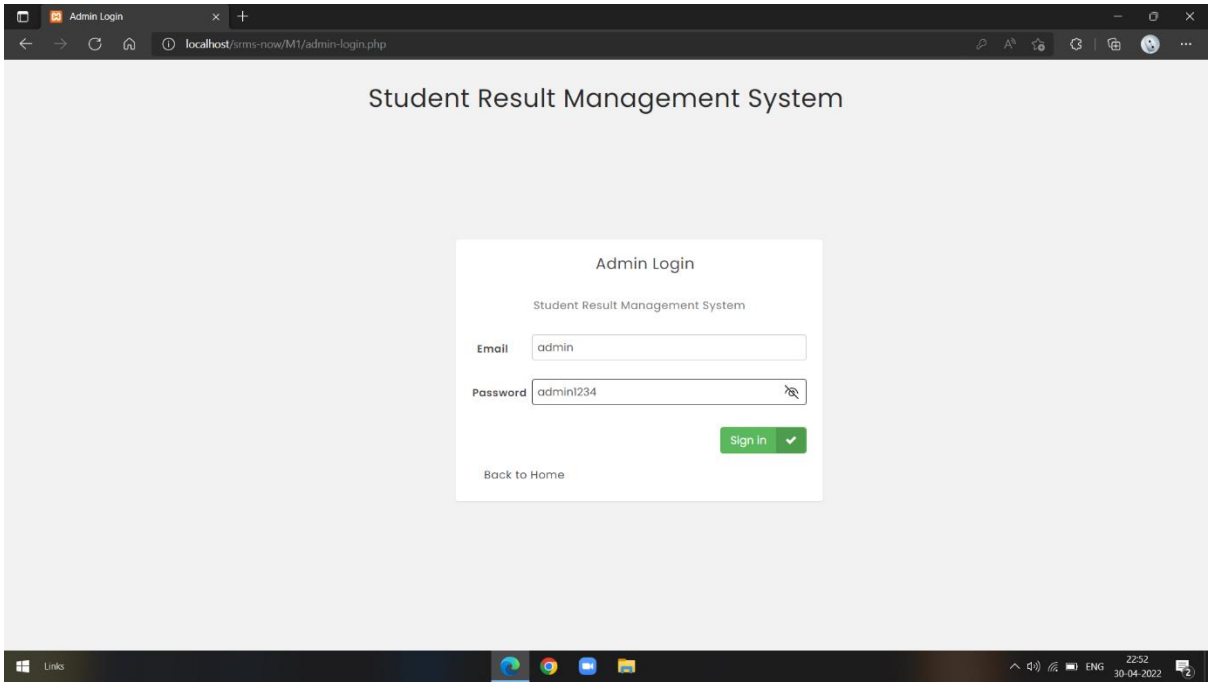




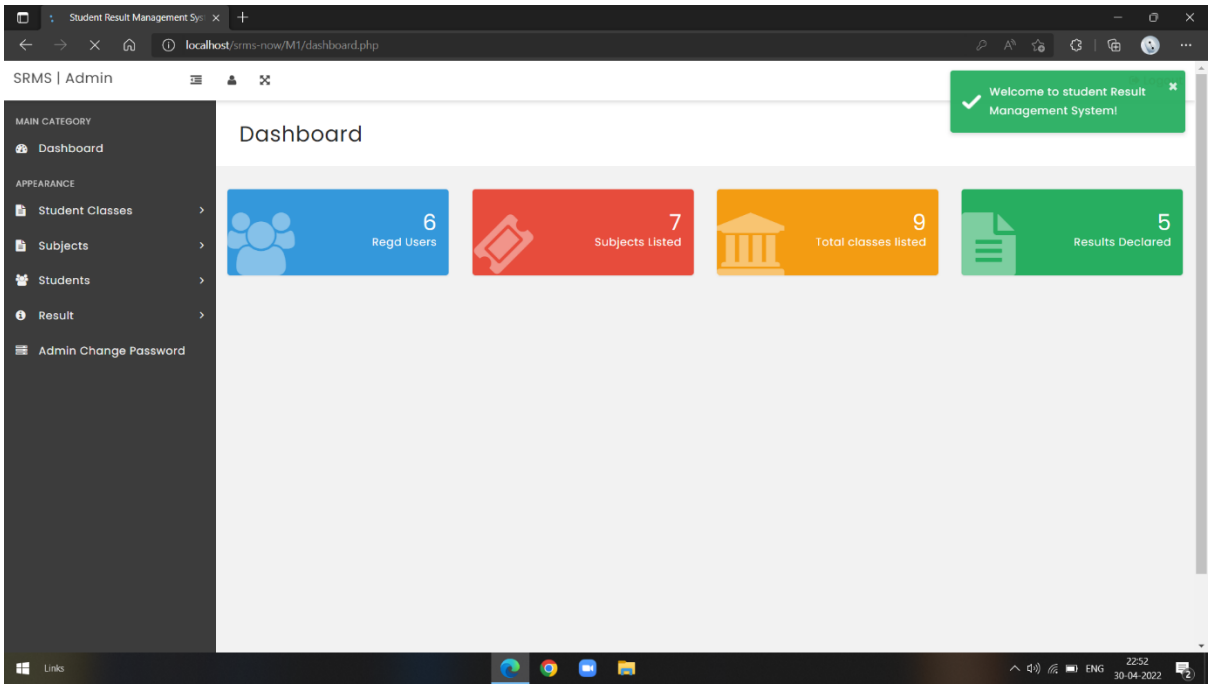
Student Results Page:

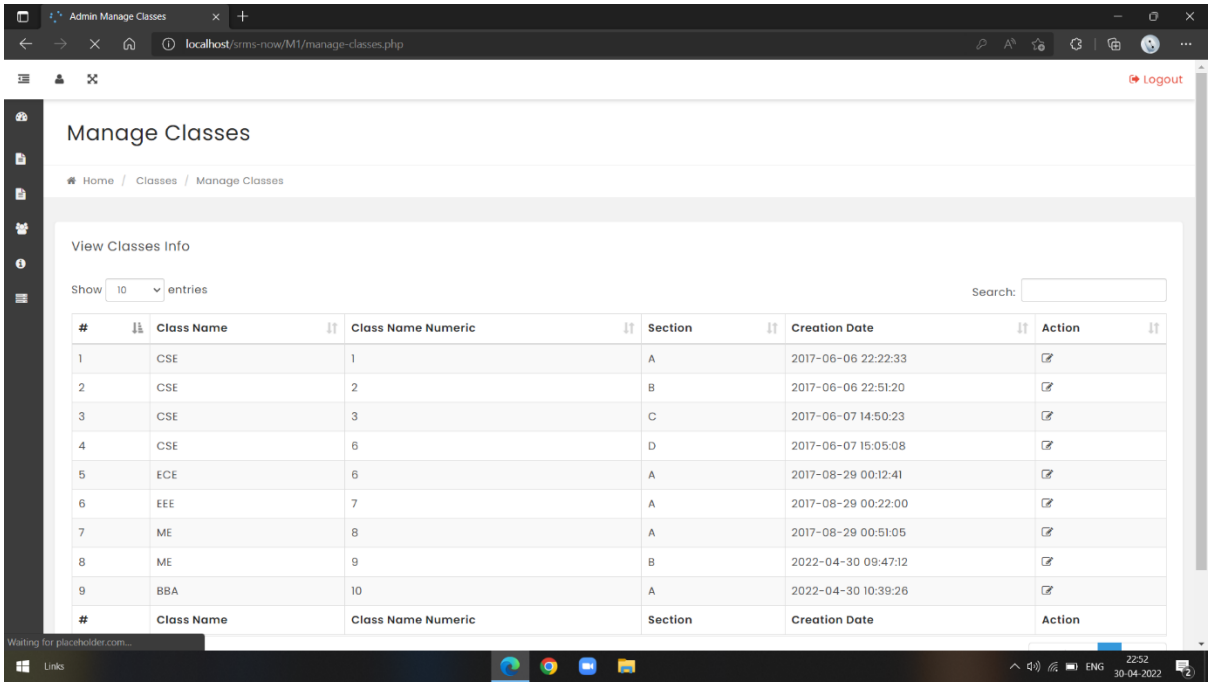


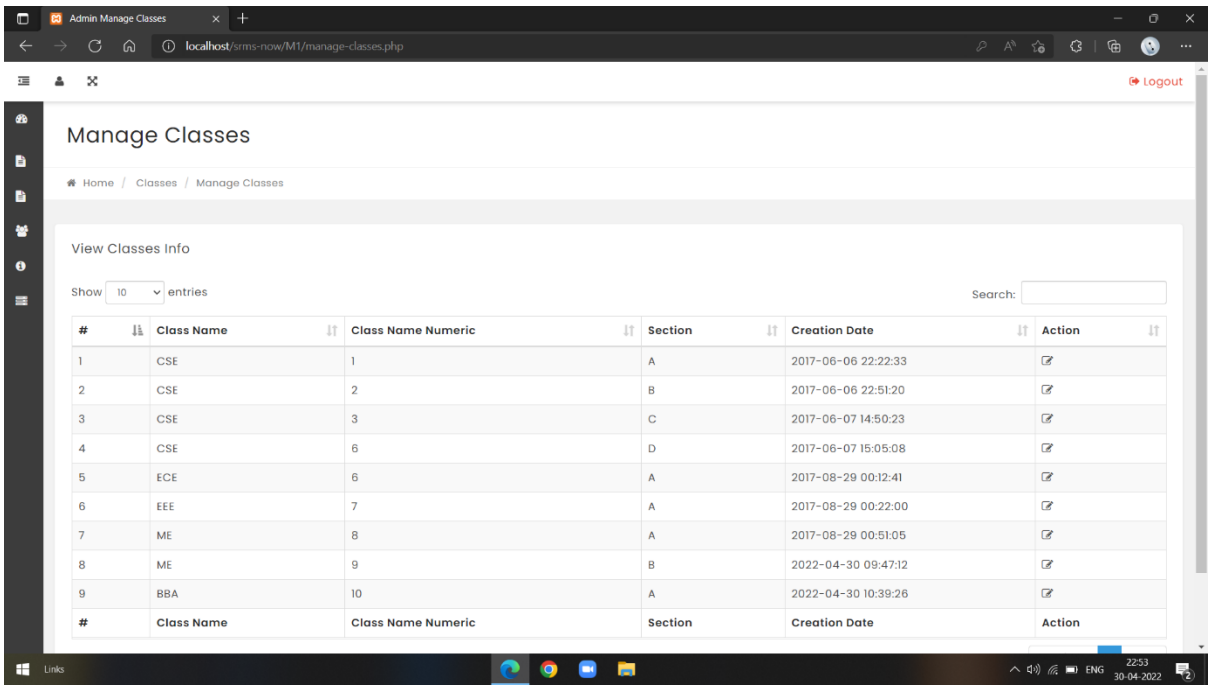
Admin Login Page:

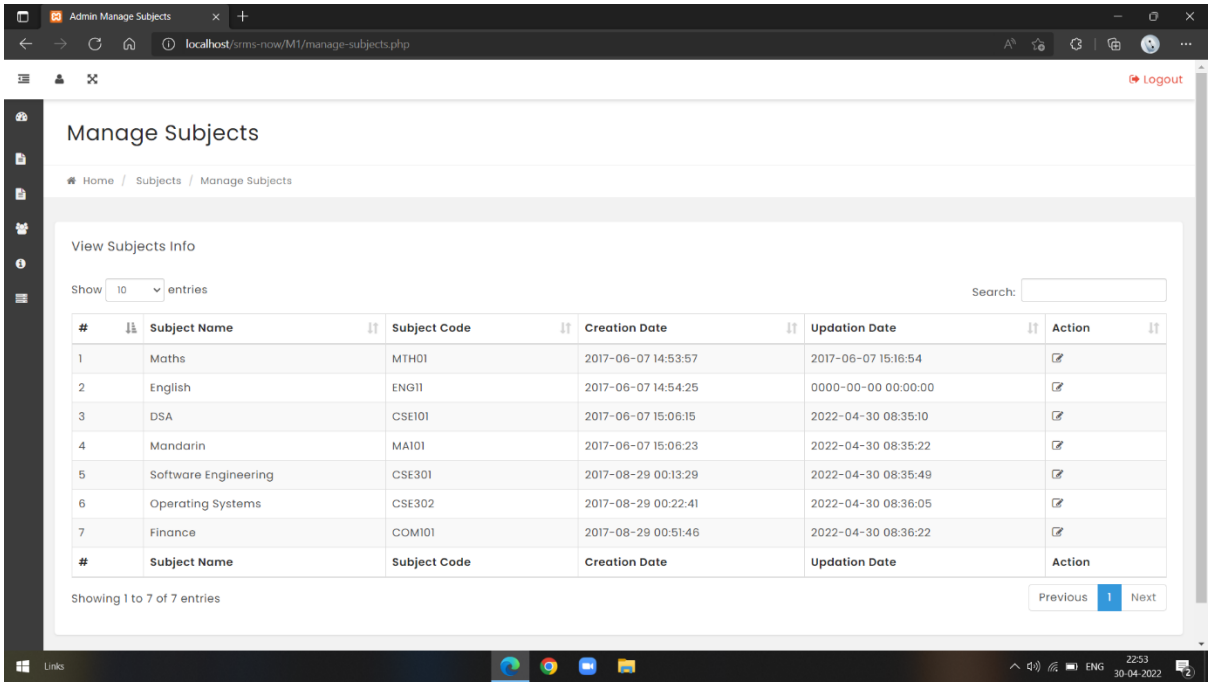


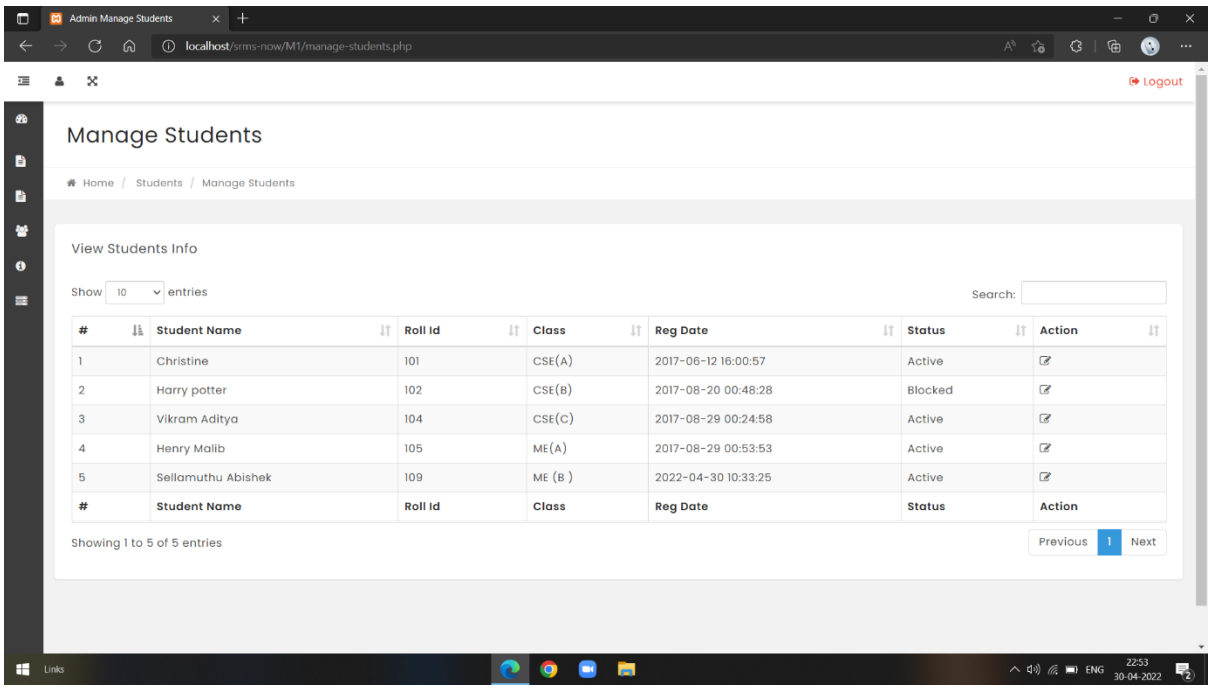
Admin Portal Page:

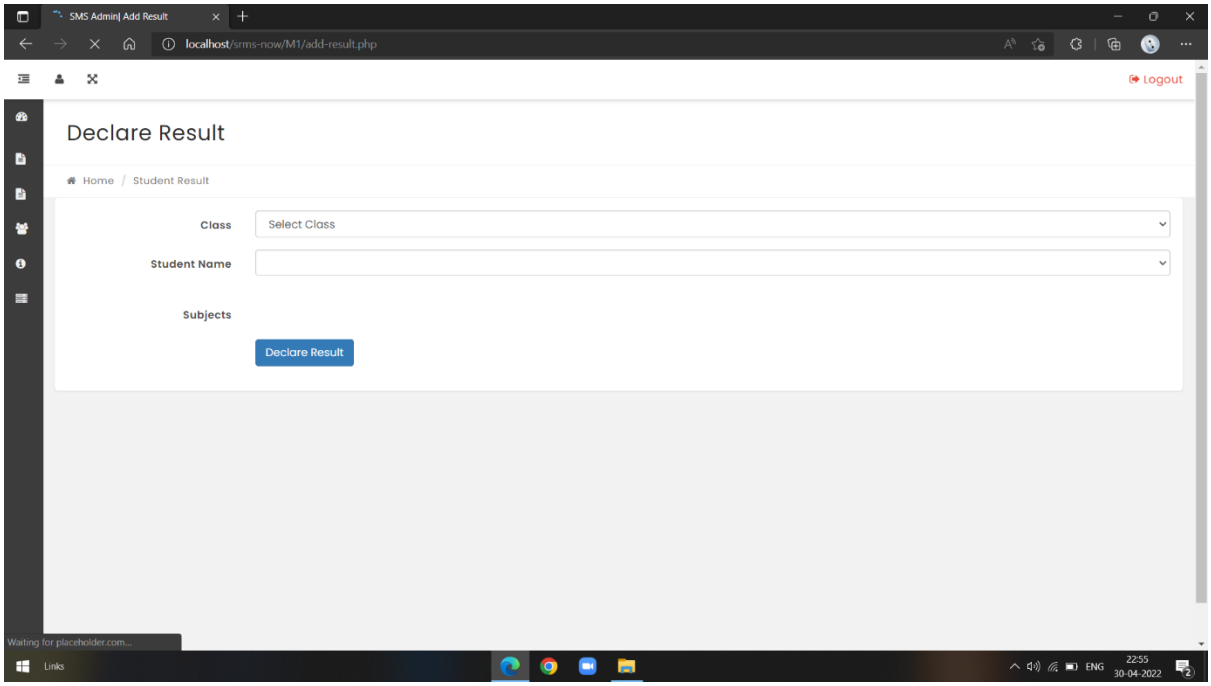


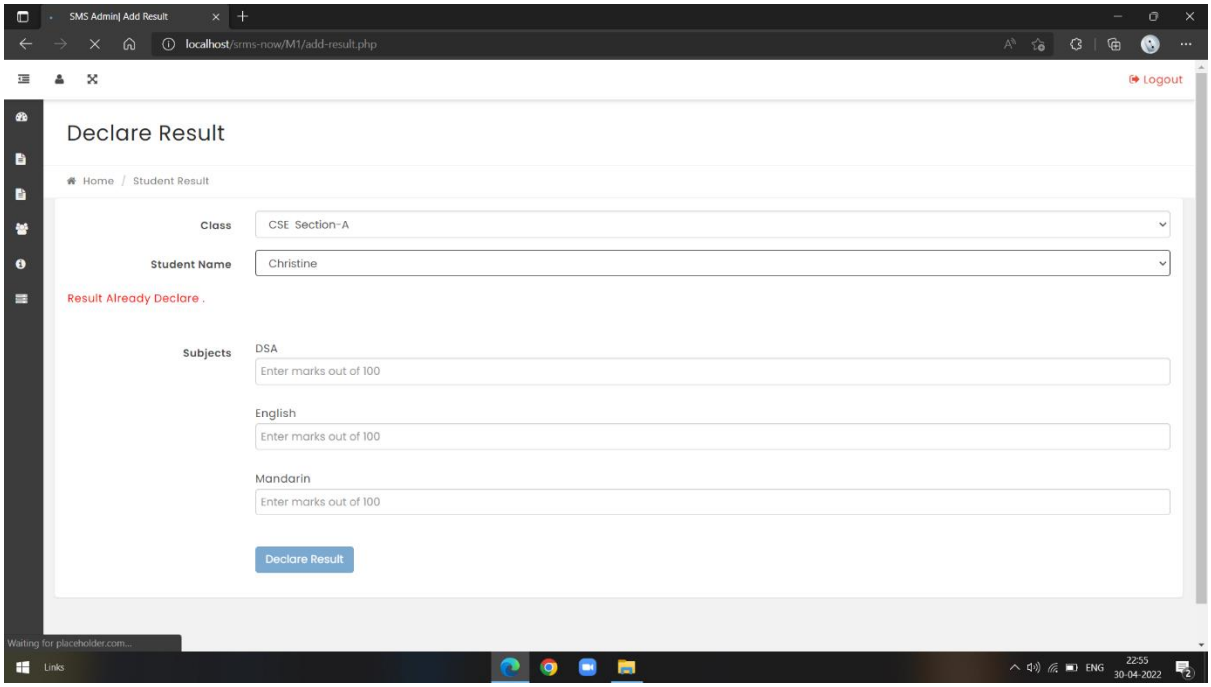

Admin Manage Classes
localhost/srms-now/M1/manage-classes.php
Logout
Manage Classes
Home / Classes / Manage Classes
View Classes Info
Show 10 entries
Search:
Class Name Class Name Numeric Section Creation Date Action
1 CSE 1 A 2017-06-06 22:22:33
2 CSE 2 B 2017-06-06 22:51:20
3 CSE 3 C 2017-06-07 14:50:23
4 CSE 6 D 2017-06-07 15:05:08
5 ECE 6 A 2017-08-29 00:12:41
6 EEE 7 A 2017-08-29 00:22:00
7 ME 8 A 2017-08-29 00:51:05
8 ME 9 B 2022-04-30 09:47:12
9 BBA 10 A 2022-04-30 10:39:26
Class Name Class Name Numeric Section Creation Date Action
Waiting for placeholder.com...
Links
ENG
22:52
30-04-2022

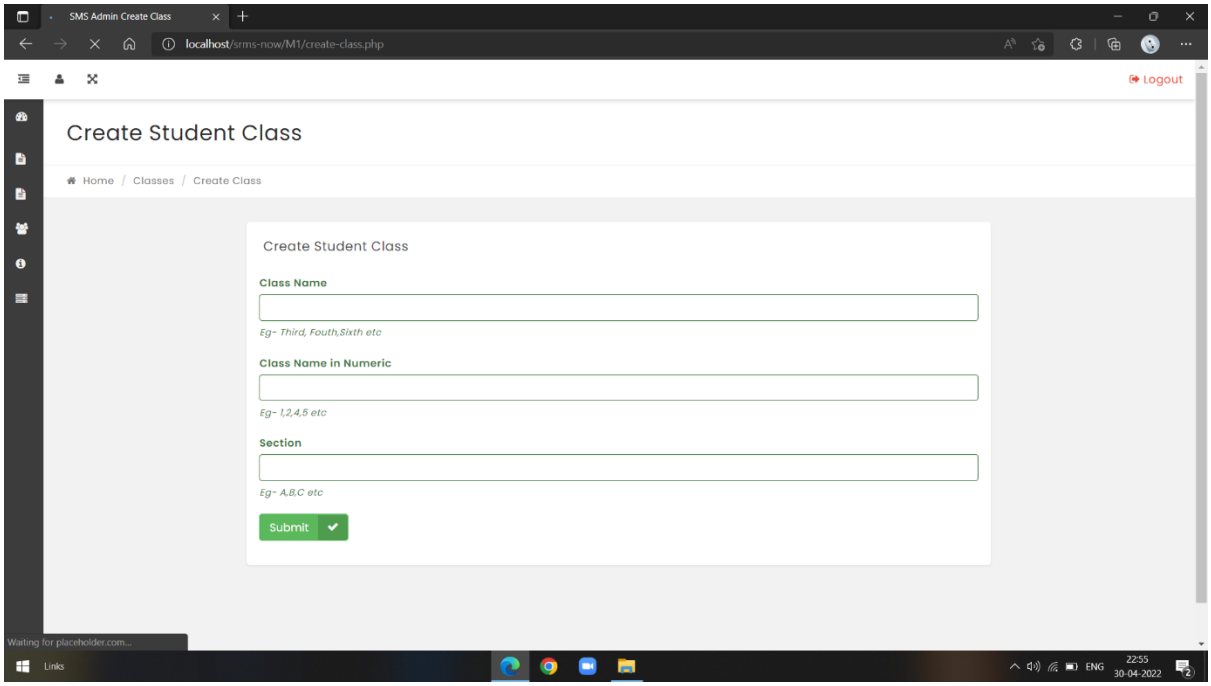

Admin Manage Classes
localhost/srms-now/M1/manage-classes.php
Logout
Manage Classes
Home / Classes / Manage Classes
View Classes Info
Show 10 entries
Search:
Class Name Class Name Numeric Section Creation Date Action
1 CSE 1 A 2017-06-06 22:22:33
2 CSE 2 B 2017-06-06 22:51:20
3 CSE 3 C 2017-06-07 14:50:23
4 CSE 6 D 2017-06-07 15:05:08
5 ECE 6 A 2017-08-29 00:12:41
6 EEE 7 A 2017-08-29 00:22:00
7 ME 8 A 2017-08-29 00:51:05
8 ME 9 B 2022-04-30 09:47:12
9 BBA 10 A 2022-04-30 10:39:26
Class Name Class Name Numeric Section Creation Date Action
Links
ENG
22:53
30-04-2022

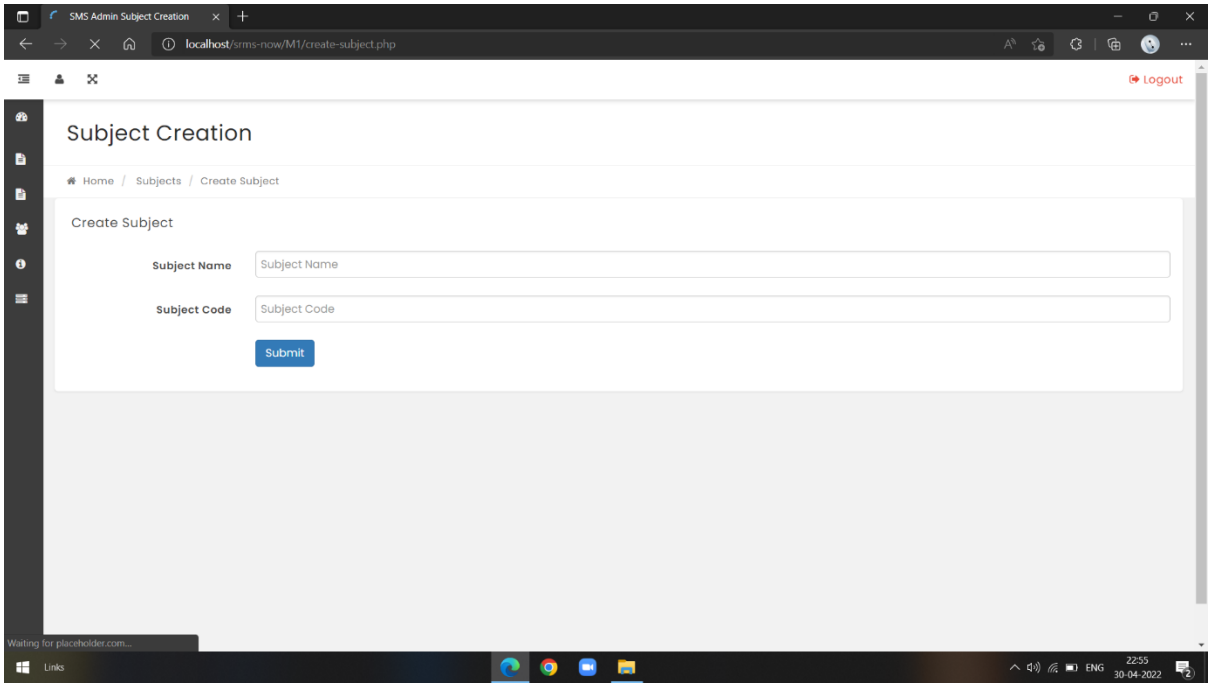

Admin Manage Subjects
localhost/srms-now/M1/manage-subjects.php
Logout
Manage Subjects
Home / Subjects / Manage Subjects
View Subjects Info
Show 10 entries
Search:
Subject Name Subject Code Creation Date Updation Date Action
1 Maths MTH01 2017-06-07 14:53:57 2017-06-07 15:16:54
2 English ENG11 2017-06-07 14:54:25 0000-00-00 00:00:00
3 DSA CSE101 2017-06-07 15:06:15 2022-04-30 08:35:10
4 Mandarin MA101 2017-06-07 15:06:23 2022-04-30 08:35:22
5 Software Engineering CSE301 2017-08-29 00:13:29 2022-04-30 08:35:49
6 Operating Systems CSE302 2017-08-29 00:22:41 2022-04-30 08:36:05
7 Finance COM101 2017-08-29 00:51:46 2022-04-30 08:36:22
Subject Name Subject Code Creation Date Updation Date Action
Showing 1 to 7 of 7 entries
Previous 1 Next
Links
ENG
22:53
30-04-2022

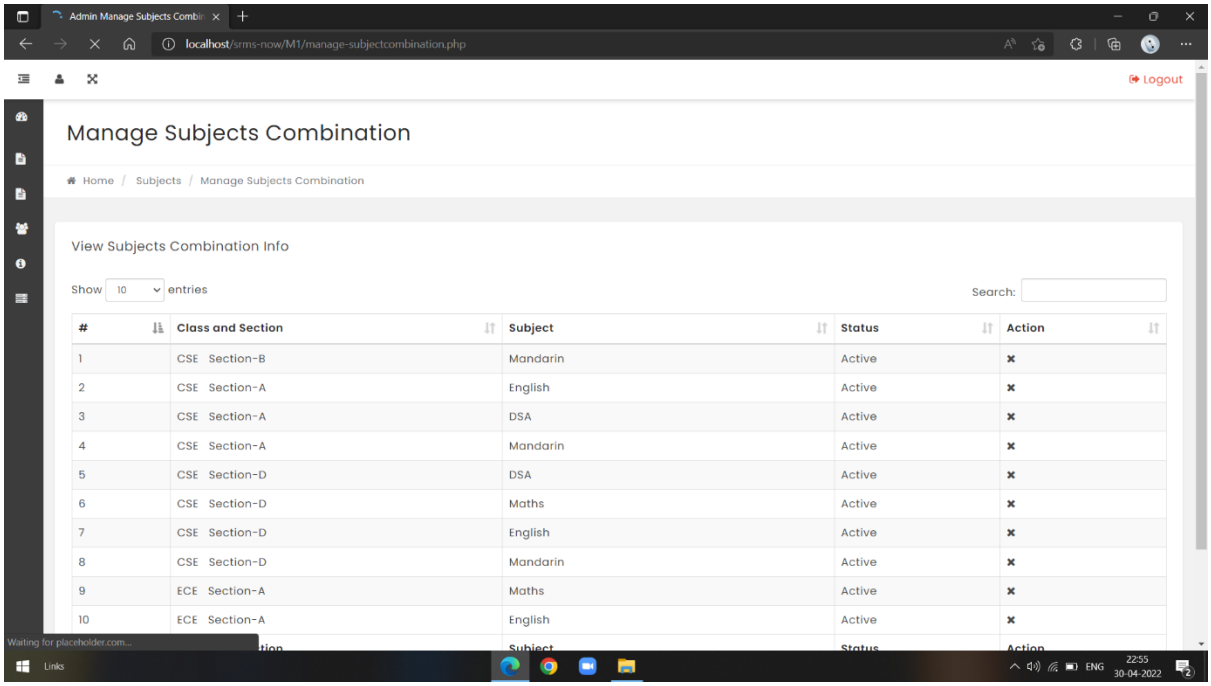

Admin Manage Students
localhost/srms-now/M1/manage-students.php
Logout
Manage Students
Home / Students / Manage Students
View Students Info
Show 10 entries
Search:
Student Name Roll Id Class Reg Date Status Action
1 Christine 101 CSE(A) 2017-06-12 16:00:57 Active
2 Harry potter 102 CSE(B) 2017-08-20 00:48:28 Blocked
3 Vikram Aditya 104 CSE(C) 2017-08-29 00:24:58 Active
4 Henry Malib 105 ME(A) 2017-08-29 00:53:53 Active
5 Sellamuthu Abishek 109 ME (B) 2022-04-30 10:33:25 Active
Student Name Roll Id Class Reg Date Status Action
Showing 1 to 5 of 5 entries
Previous 1 Next
Links
ENG
22:53
30-04-2022

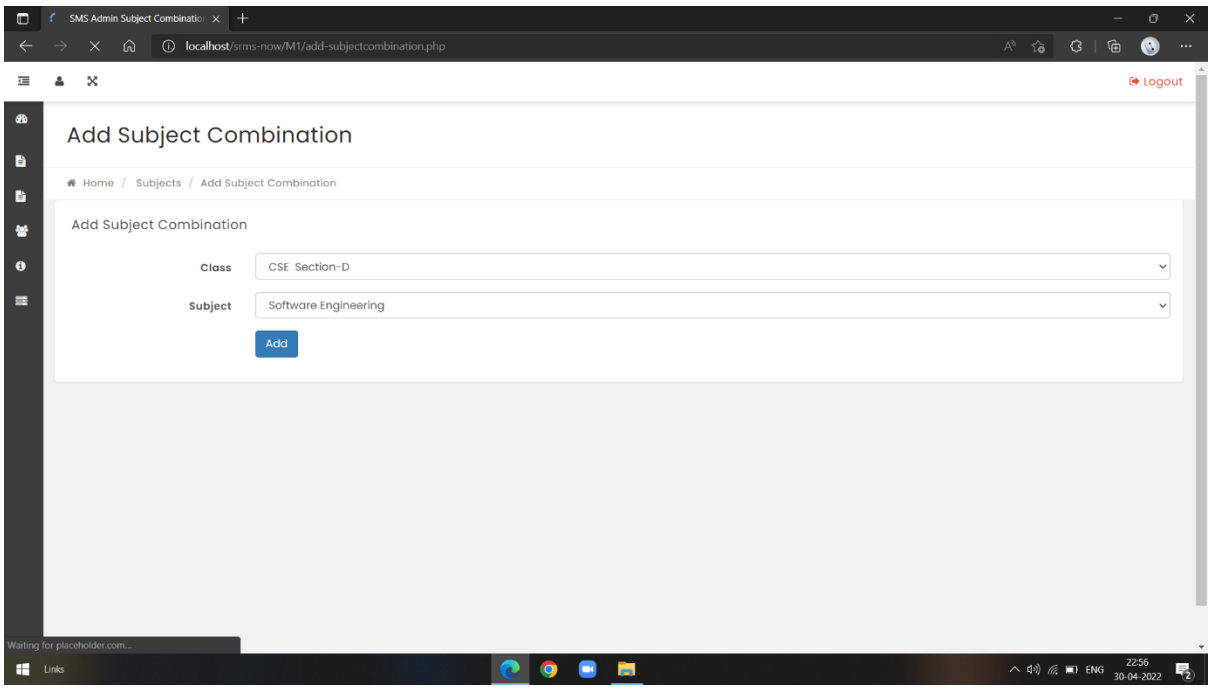

SMS Admin| Add Result
localhost/srms-now/M1/add-result.php
Logout
Declare Result
Home / Student Result
Class
Select Class
Student Name
Subjects
Declare Result
Waiting for placeholder.com...
Links
ENG
22:55
30-04-2022

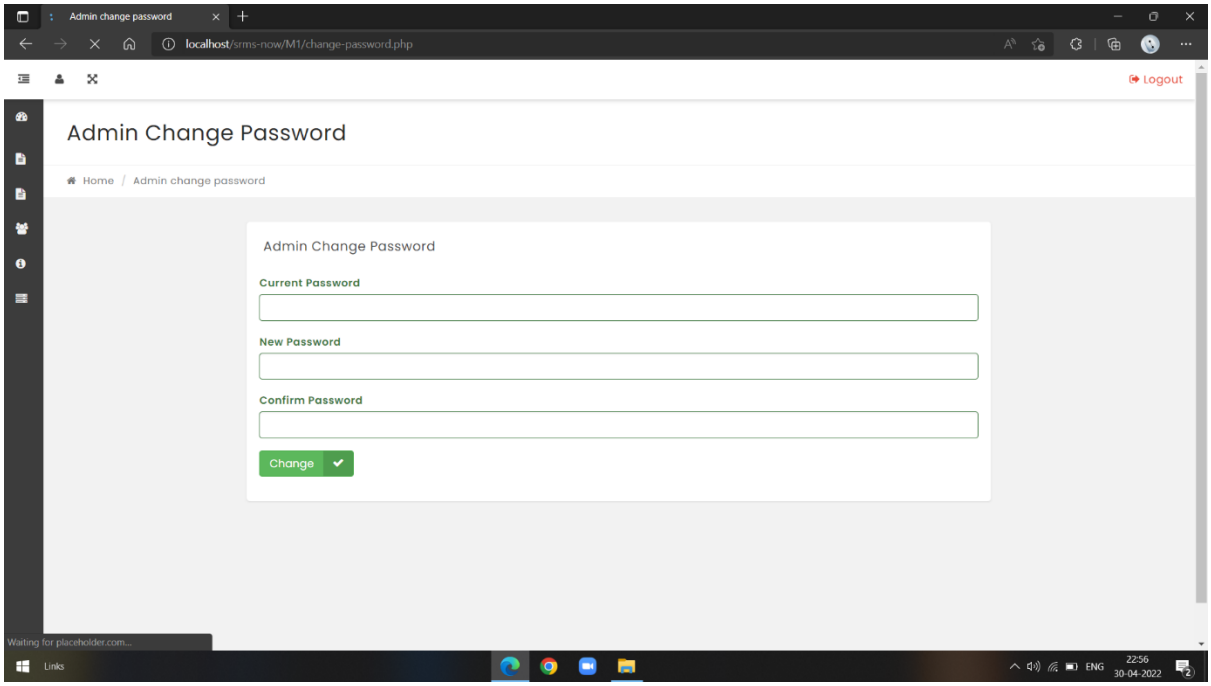

SMS Admin| Add Result
localhost/srms-now/M1/add-result.php
Logout
Declare Result
Home / Student Result
Class
CSE Section-A
Student Name
Christine
Result Already Declare .
Subjects
DSA
Enter marks out of 100
English
Enter marks out of 100
Mandarin
Enter marks out of 100
Declare Result
Waiting for placeholder.com...
Links
ENG
22:55
30-04-2022

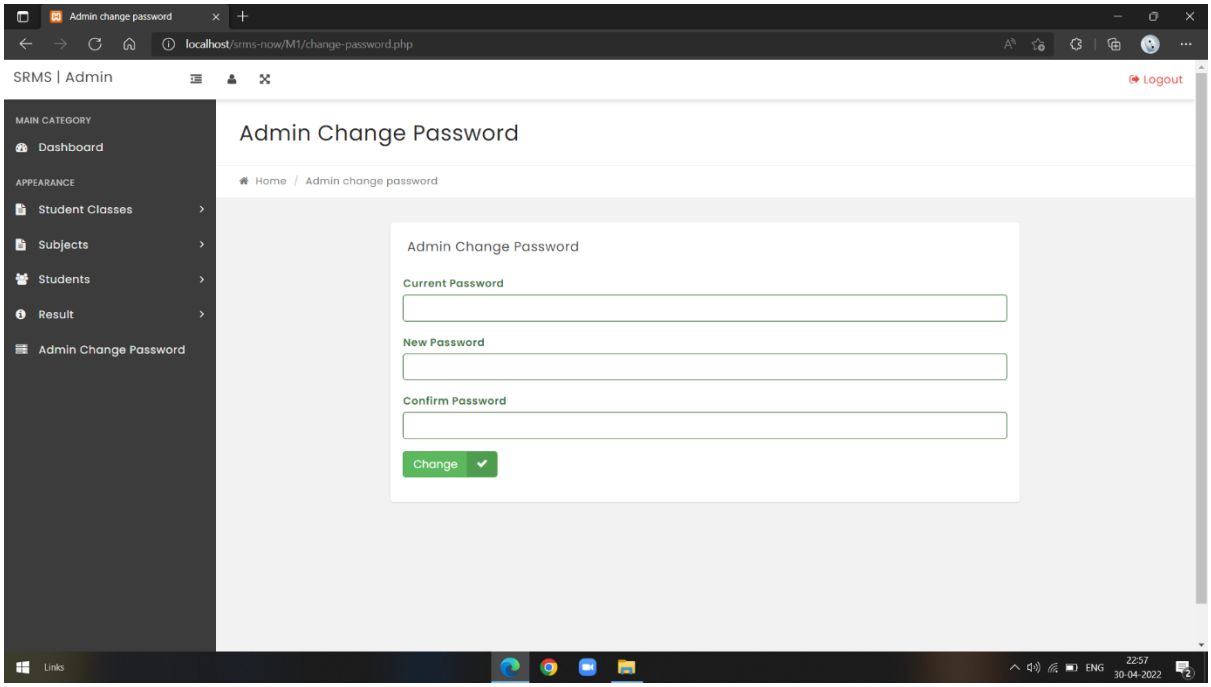

SMS Admin Create Class
localhost/srms-now/M1/create-class.php
Logout
Create Student Class
Home / Classes / Create Class
Create Student Class
Class Name
Eg- Third, Fouth,Sixth etc
Class Name in Numeric
Eg- 1,2,4,5 etc
Section
Eg- A,B,C etc
Submit
Waiting for placeholder.com...
Links
ENG
22:55
30-04-2022


SMS Admin Subject Creation
localhost/srms-now/M1/create-subject.php
Logout
Subject Creation
Home / Subjects / Create Subject
Create Subject
Subject Name
Subject Name
Subject Code
Subject Code
Submit
Waiting for placeholder.com...
Links
ENG
22:55
30-04-2022

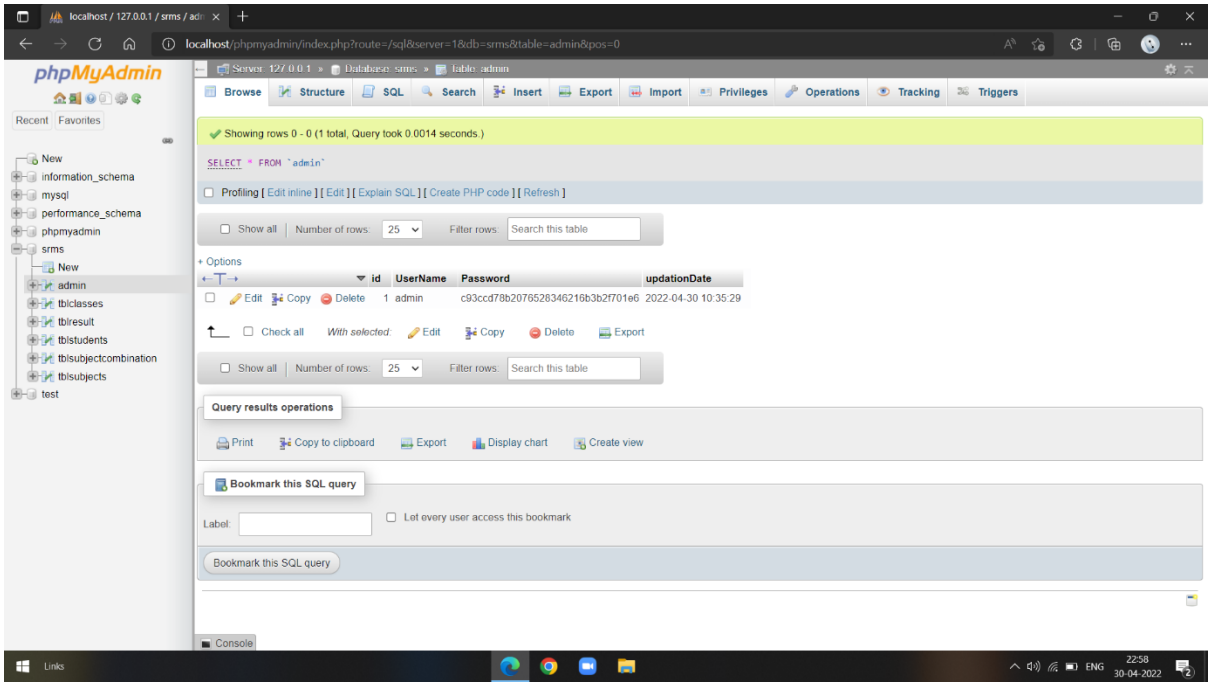

Admin Manage Subjects Combi
localhost/srms-now/M1/manage-subjectcombination.php
Logout
Manage Subjects Combination
Home / Subjects / Manage Subjects Combination
View Subjects Combination Info
Show 10 entries
Search:
Class and Section Subject Status Action
1 CSE Section-B Mandarin Active
2 CSE Section-A English Active
3 CSE Section-A DSA Active
4 CSE Section-A Mandarin Active
5 CSE Section-D DSA Active
6 CSE Section-D Maths Active
7 CSE Section-D English Active
8 CSE Section-D Mandarin Active
9 ECE Section-A Maths Active
10 ECE Section-A English Active
Waiting for placeholder.com...
Links
ENG
22:55
30-04-2022

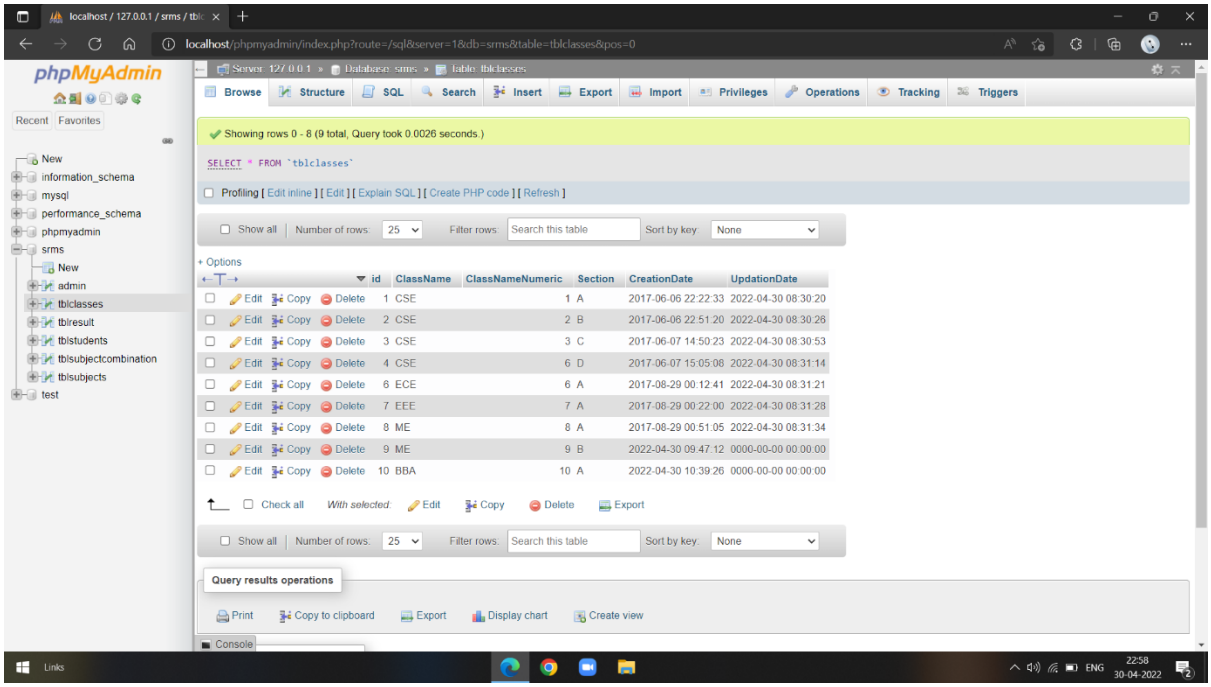

SMS Admin Subject Combinatio
localhost/srms-now/M1/add-subjectcombination.php
Logout
Add Subject Combination
Home / Subjects / Add Subject Combination
Add Subject Combination
Class
CSE Section-D
Subject
Software Engineering
Add
Waiting for placeholder.com...
Links
ENG
22:56
30-04-2022

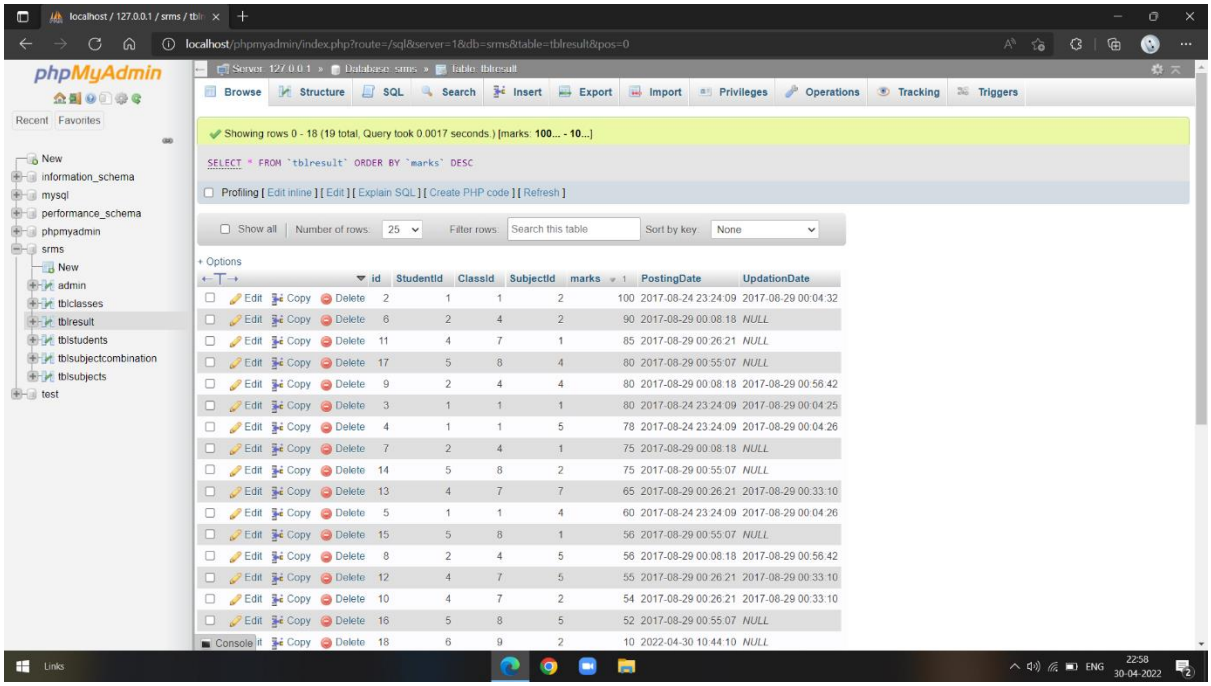

Admin change password
localhost/srms-now/M1/change-password.php
Logout
Admin Change Password
Home / Admin change password
Admin Change Password
Current Password
New Password
Confirm Password
Change
Waiting for placeholder.com...
Links
ENG
22:56
30-04-2022

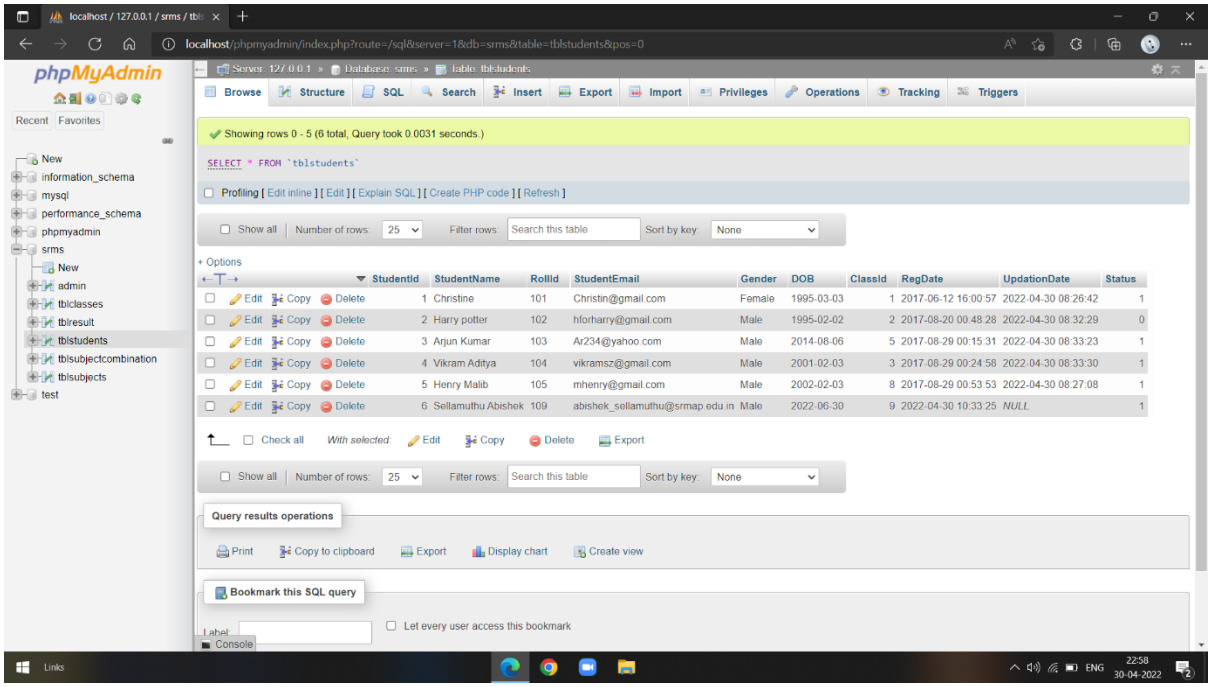

Admin change password
localhost/srms-now/M1/change-password.php
SRMS | Admin
Logout
MAIN CATEGORY
Dashboard
APPEARANCE
Student Classes
Subjects
Students
Result
Admin Change Password
Admin Change Password
Home / Admin change password
Admin Change Password
Current Password
New Password
Confirm Password
Change
Links
ENG
22:57
30-04-2022

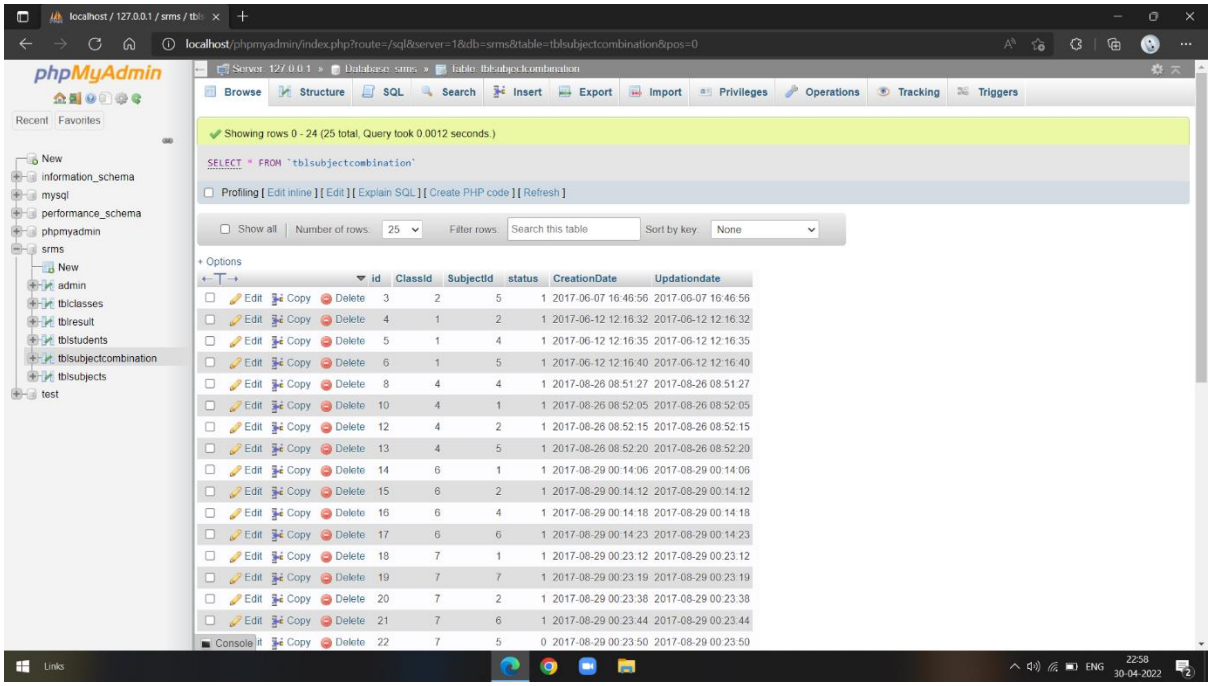
Backend:

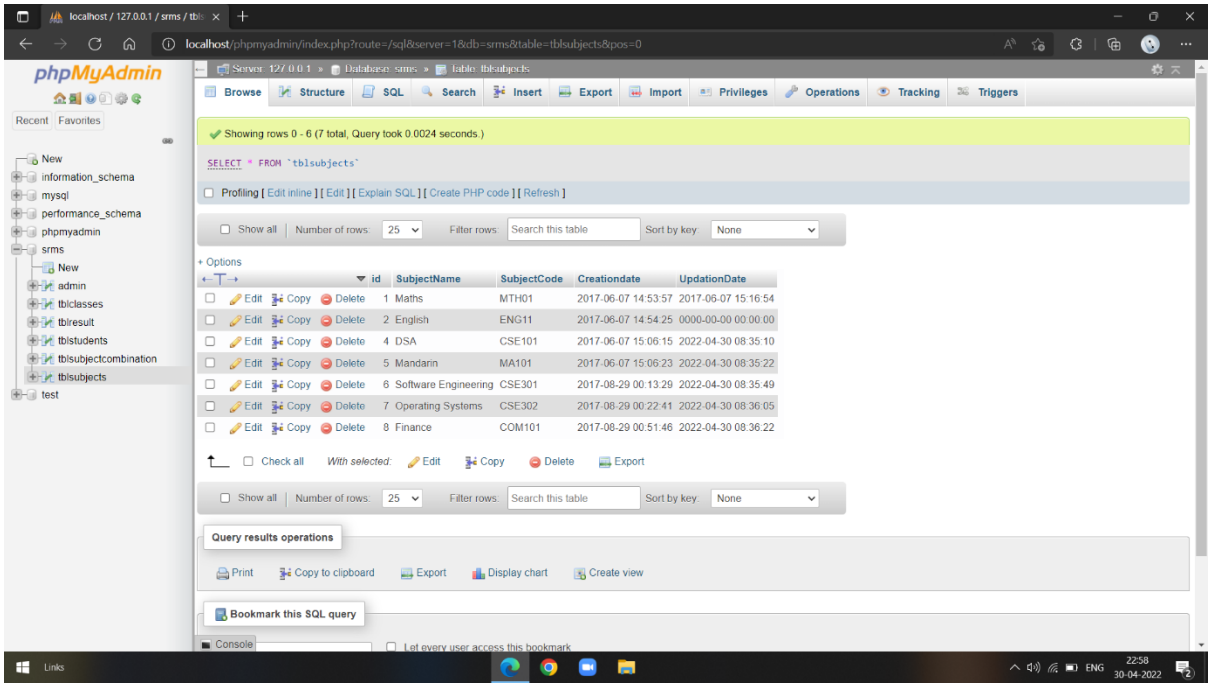

phpMyAdmin
Showing rows 0 - 0 (1 total, Query took 0.0014 seconds.)
SELECT * FROM `admin`
id UserName Password updationDate
1 admin c93ccd78b2076528346216b3b2f701e6 2022-04-30 10:35:29


phpMyAdmin
Showing rows 0 - 8 (9 total, Query took 0.0026 seconds.)
SELECT * FROM `tblclasses`
id ClassName ClassNameNumeric Section CreationDate UpdationDate
1 CSE 1 A 2017-06-06 22:22:33 2022-04-30 08:30:20
2 CSE 2 B 2017-06-06 22:51:20 2022-04-30 08:30:26
3 CSE 3 C 2017-06-07 14:50:23 2022-04-30 08:30:53
4 CSE 6 D 2017-06-07 15:05:08 2022-04-30 08:31:14
6 ECE 6 A 2017-08-29 00:12:41 2022-04-30 08:31:21
7 EEE 7 A 2017-08-29 00:22:00 2022-04-30 08:31:28
8 ME 8 A 2017-08-29 00:51:05 2022-04-30 08:31:34
9 ME 9 B 2022-04-30 09:47:12 0000-00-00 00:00:00
10 BBA 10 A 2022-04-30 10:39:26 0000-00-00 00:00:00


phpMyAdmin
Showing rows 0 - 18 (19 total, Query took 0.0017 seconds.) [marks: 100... - 10...]
SELECT * FROM `tblresult` ORDER BY `marks` DESC
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None
+ Options
id | StudentId | ClassId | SubjectId | marks | PostingDate | UpdationDate
100 2017-08-24 23:24:09 2017-08-29 00:04:32
90 2017-08-29 00:08:18 NULL
85 2017-08-29 00:26:21 NULL
80 2017-08-29 00:55:07 NULL
80 2017-08-29 00:08:18 2017-08-29 00:56:42
80 2017-08-24 23:24:09 2017-08-29 00:04:25
78 2017-08-24 23:24:09 2017-08-29 00:04:26
75 2017-08-29 00:08:18 NULL
75 2017-08-29 00:55:07 NULL
65 2017-08-29 00:26:21 2017-08-29 00:33:10
60 2017-08-24 23:24:09 2017-08-29 00:04:26
56 2017-08-29 00:55:07 NULL
56 2017-08-29 00:08:18 2017-08-29 00:56:42
55 2017-08-29 00:26:21 2017-08-29 00:33:10
54 2017-08-29 00:26:21 2017-08-29 00:33:10
52 2017-08-29 00:55:07 NULL
10 2022-04-30 10:44:10 NULL


phpMyAdmin
Showing rows 0 - 5 (6 total, Query took 0.0031 seconds.)
SELECT * FROM `tblstudents`
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None
+ Options
StudentId | StudentName | RollId | StudentEmail | Gender | DOB | ClassId | RegDate | UpdationDate | Status
1 Christine 101 Christin@gmail.com Female 1995-03-03 1 2017-06-12 16:00:57 2022-04-30 08:26:42 1
2 Harry potter 102 hforharry@gmail.com Male 1995-02-02 2 2017-08-20 00:48:28 2022-04-30 08:32:29 0
3 Arjun Kumar 103 Ar234@yahoo.com Male 2014-08-06 5 2017-08-29 00:15:31 2022-04-30 08:33:23 1
4 Vikram Aditya 104 vikramsz@gmail.com Male 2001-02-03 3 2017-08-29 00:24:58 2022-04-30 08:33:30 1
5 Henry Malib 105 mhenry@gmail.com Male 2002-02-03 8 2017-08-29 00:53:53 2022-04-30 08:27:08 1
6 Sellamuthu Abishek 109 abishek_sellamuthu@srmap.edu.in Male 2022-06-30 9 2022-04-30 10:33:25 NULL 1
Check all | With selected: Edit | Copy | Delete | Export
Query results operations
Print | Copy to clipboard | Export | Display chart | Create view
Bookmark this SQL query
Let every user access this bookmark


phpMyAdmin
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
Operations
Tracking
Triggers
Showing rows 0 - 24 (25 total, Query took 0.0012 seconds.)
SELECT * FROM `tblsubjectcombination`
id ClassId SubjectId status CreationDate Updationdate
3 2 5 1 2017-06-07 16:46:56 2017-06-07 16:46:56
4 1 2 1 2017-06-12 12:16:32 2017-06-12 12:16:32
5 1 4 1 2017-06-12 12:16:35 2017-06-12 12:16:35
6 1 5 1 2017-06-12 12:16:40 2017-06-12 12:16:40
8 4 4 1 2017-08-26 08:51:27 2017-08-26 08:51:27
10 4 1 1 2017-08-26 08:52:05 2017-08-26 08:52:05
12 4 2 1 2017-08-26 08:52:15 2017-08-26 08:52:15
13 4 5 1 2017-08-26 08:52:20 2017-08-26 08:52:20
14 6 1 1 2017-08-29 00:14:06 2017-08-29 00:14:06
15 6 2 1 2017-08-29 00:14:12 2017-08-29 00:14:12
16 6 4 1 2017-08-29 00:14:18 2017-08-29 00:14:18
17 6 6 1 2017-08-29 00:14:23 2017-08-29 00:14:23
18 7 1 1 2017-08-29 00:23:12 2017-08-29 00:23:12
19 7 7 1 2017-08-29 00:23:19 2017-08-29 00:23:19
20 7 2 1 2017-08-29 00:23:38 2017-08-29 00:23:38
21 7 6 1 2017-08-29 00:23:44 2017-08-29 00:23:44
22 7 5 0 2017-08-29 00:23:50 2017-08-29 00:23:50


phpMyAdmin
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
Operations
Tracking
Triggers
Showing rows 0 - 6 (7 total, Query took 0.0024 seconds.)
SELECT * FROM `tblsubjects`
id SubjectName SubjectCode Creationdate UpdationDate
1 Maths MTH01 2017-06-07 14:53:57 2017-06-07 15:16:54
2 English ENG11 2017-06-07 14:54:25 0000-00-00 00:00:00
4 DSA CSE101 2017-06-07 15:06:15 2022-04-30 08:35:10
5 Mandarin MA101 2017-06-07 15:06:23 2022-04-30 08:35:22
6 Software Engineering CSE301 2017-08-29 00:13:29 2022-04-30 08:35:49
7 Operating Systems CSE302 2017-08-29 00:22:41 2022-04-30 08:36:05
8 Finance COM101 2017-08-29 00:51:46 2022-04-30 08:36:22
Query results operations
Print
Copy to clipboard
Export
Display chart
Create view
Bookmark this SQL query

End- Review:

So in general, This website can be used by any institute or any teaching platform that needs to publish results in a way that is easily accessible by all the students, and easy to use for the admins. The main agenda is to maintain the digital records for the results of the exam without any manpower or manual book-entry system of the results issued. So, with the help of this website the pre-existing manual book record system of any result can be replaced with digital computerized equipment. This website is quite helpful for publishing the results online without any hassle.

Conclusion:

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

By using this project manual book record management will be replaced so that all the data/information will be maintained perfectly. In the manual book-entry system there can be a possibility of losing the data because of any human errors, fire accidents, etc. But This website will store complete data in the server which can be retrieved through the internet from any computer. So, in conclusion this project allows the user to store the published results and the student's details. The implementation of the system will reduce data entry time and provide readily calculated reports in digital format.

References:

- https://www.w3schools.com
- https://www.tutorialspoint.com/sql/
- Examples · Bootstrap v5.1 (getbootstrap.com)
- (1) Student result management system project report | Customs Cart - Academia.edu