

PROJECT REPORT

ONLINE COUNSELLING APPLICATION

SUBMITTED BY :-

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UNDER SUPERVISION OF :-

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**CENTER FOR DEVELOPMENT OF
ADVANCED COMPUTING**

MOHALI

ACKNOWLEDGEMENT :

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ROBIN SINGH RANA

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INTRODUCTION:-

OVERVIEW:-

This report discusses the result of the work done in development of “**ONLINE COUNSELLING APPLICATION**” on Java platform.

The report describes briefly all the components of the project.

OBJECTIVE:-

The final goal of the project was :-

To successfully perform the counselling and allocate seats to the registered students based on their preferences for desired college seats , according to their performance in the entrance test (JEE Mains).

FUTURE SCOPE:-

To make this project go live online through the use of J2ee technologies i.e. by using servlet, JSP etc. so that the counselling and seat allocation can be performed online by the college for respective batches and sessions.

Further advancement in the GUI of the project.

REQUIREMENTS:-

OS: WINDOWS, ENVIRONMENT: JRE , TOOLS: NET BEANS/ECLIPSE.

SPECIFICATION AND DESIGN:-

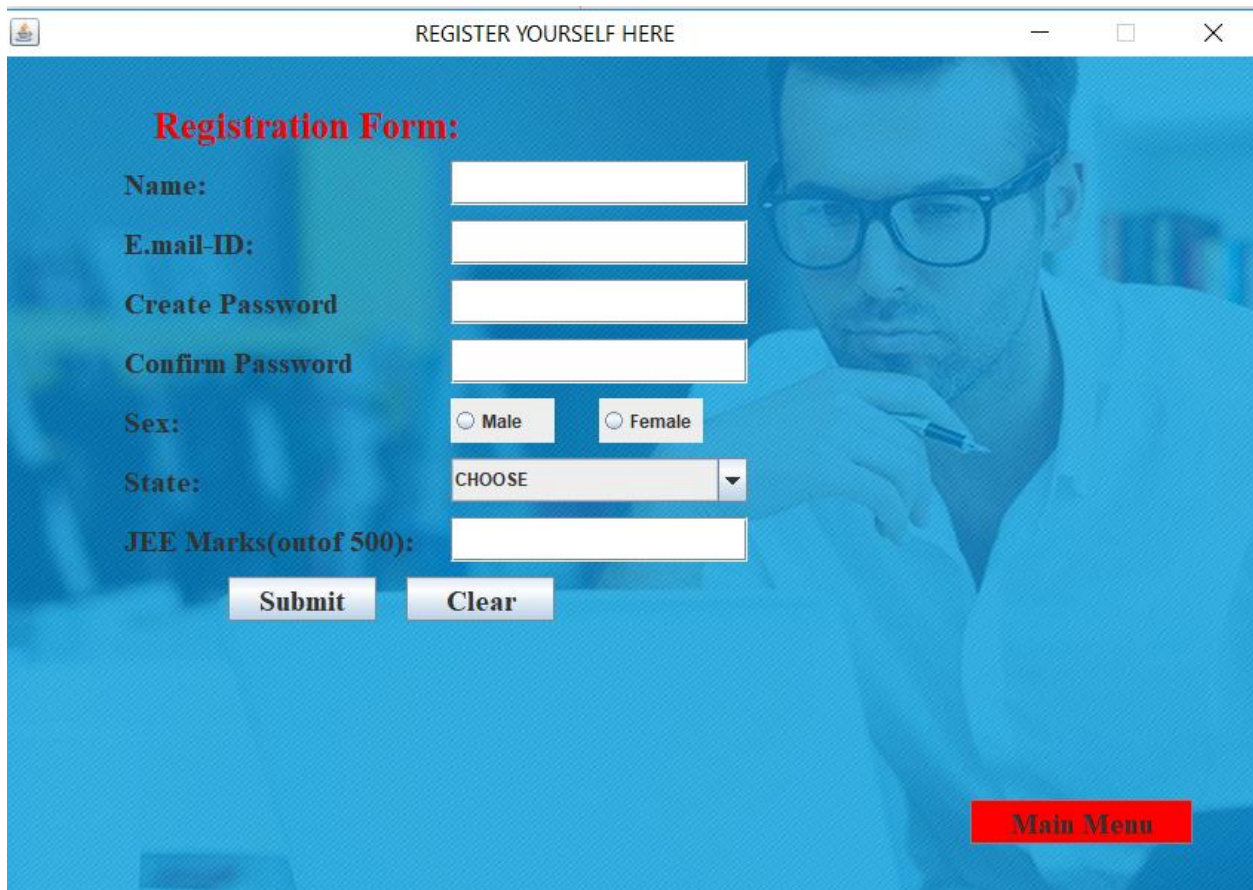
The application consists of the following specification:-

1. Homepage :-



It is the first frame that opens when the application runs. It provides the user with various options to select such as register, login and results. It also provides an option for the Admin in order to perform seat allocation.

2. Registration:-



The screenshot shows a web browser window with the title "REGISTER YOURSELF HERE". The background of the page is a blue-tinted image of a man with glasses. The registration form is titled "Registration Form:" in red. It contains the following fields and controls:

- Name:** A text input field.
- E.mail-ID:** A text input field.
- Create Password:** A text input field.
- Confirm Password:** A text input field.
- Sex:** Two radio buttons labeled "Male" and "Female".
- State:** A dropdown menu with "CHOOSE" selected.
- JEE Marks(out of 500):** A text input field.
- Buttons:** "Submit" and "Clear" buttons are located below the JEE Marks field. A "Main Menu" button is located in the bottom right corner of the page.

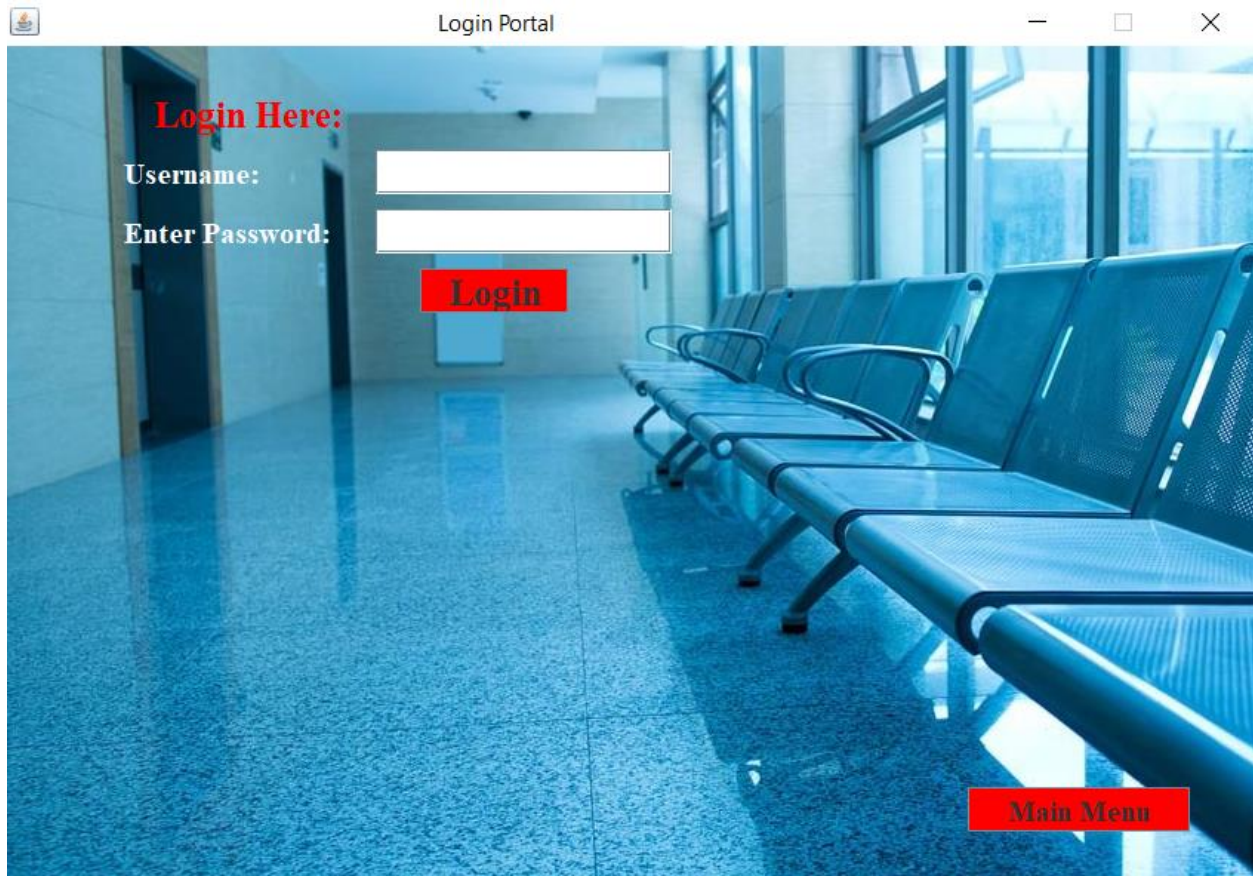
It is the frame which opens when the user selects the registration option from the homepage frame by clicking the registration button.

It prompts the user to register him/her by entering the required data i.e. name, email-id, password, gender, state, and JEE Marks.

It has two options Submit and Clear as buttons and a third button "Main Menu" to go back to homepage frame.

On clicking Submit button after entering the required data the user gets registered for the counselling.

3. Login:-



The screenshot shows a web browser window titled "Login Portal". The background is a blue-tinted image of a waiting area with rows of metal chairs. Overlaid on the left side is a login form. At the top left of the form, it says "Login Here:" in red. Below this, there are two labels: "Username:" and "Enter Password:". Each label is followed by a white rectangular input field. Below the password input field, there is a red button with the word "Login" in white. In the bottom right corner of the page, there is another red button with the words "Main Menu" in white.

It is the frame which opens when the user selects the login option from the homepage frame by clicking the login button.

It prompts the user to login by providing the essential details required for login i.e. his/her name and password entered during registration.

It has an option Login as button and a second button “Main Menu” to go back to homepage frame.

On clicking Submit button after entering the required data the user gets registered for the counselling.

4. Choice Filling:-

The screenshot shows a web application window titled 'WELCOME TO CHOICE FILLING'. The main heading is 'WELCOME' in large red letters. Below it, the text 'Please Fill Your Choices Here:--' is displayed. There are 15 rows, each labeled 'CHOICE 1:' through 'CHOICE 15:' in red. Each row contains a dropdown menu with 'NONE' selected. At the bottom, there are two green buttons labeled 'SUBMIT' and 'CLEAR'.

It is the frame which opens when the user successfully gets logged in from the login frame by entering the right credentials.

It prompts the user to fill the choices for desired college seats according to his/her preferences.

It has two options Submit and Clear as buttons.

On clicking Submit button after entering the seats in his desired order of preference, the choicefilling frame prompts the user to select yes or no to lock his choices. If the user selects yes his choices get locked.

5. Admin Login:-



ADMIN SECTION

HELLO ADMIN

Enter Admin Name:

Enter Admin Password:

Submit

dreamstime.

ADMIN

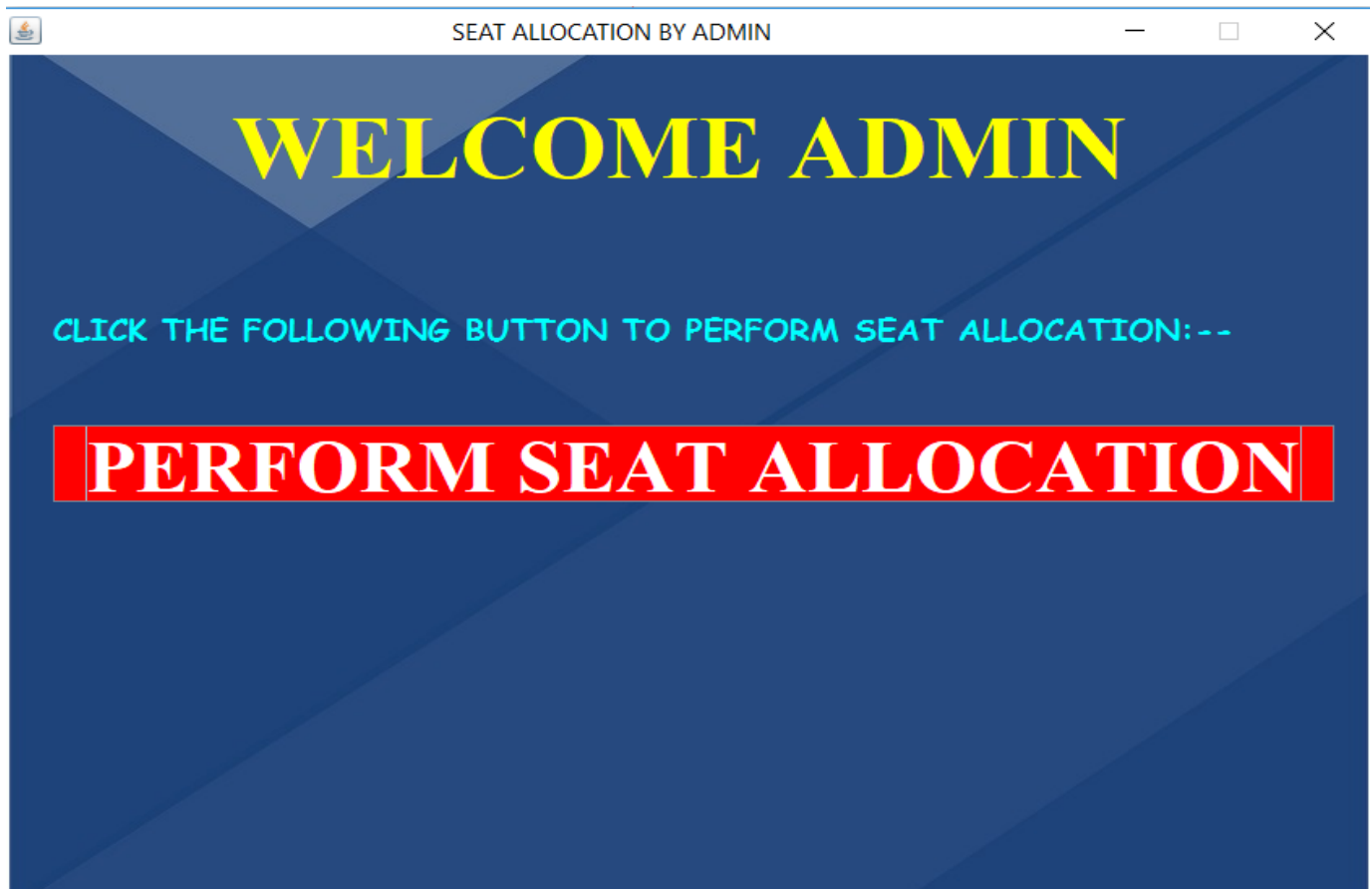
It is the frame which opens when the user(Admin) selects the Admin Login option from the homepage frame by clicking the Admin Login button.

It prompts the Admin to login by providing the essential details required for login i.e. his/her name and password.

This section of the software is for admin only, who performs the seat allocation.

On clicking Login button after entering the required data the Admin gets Logged in.

6. Perform Allocation:-



It is the frame which opens when the Admin gets logged in.

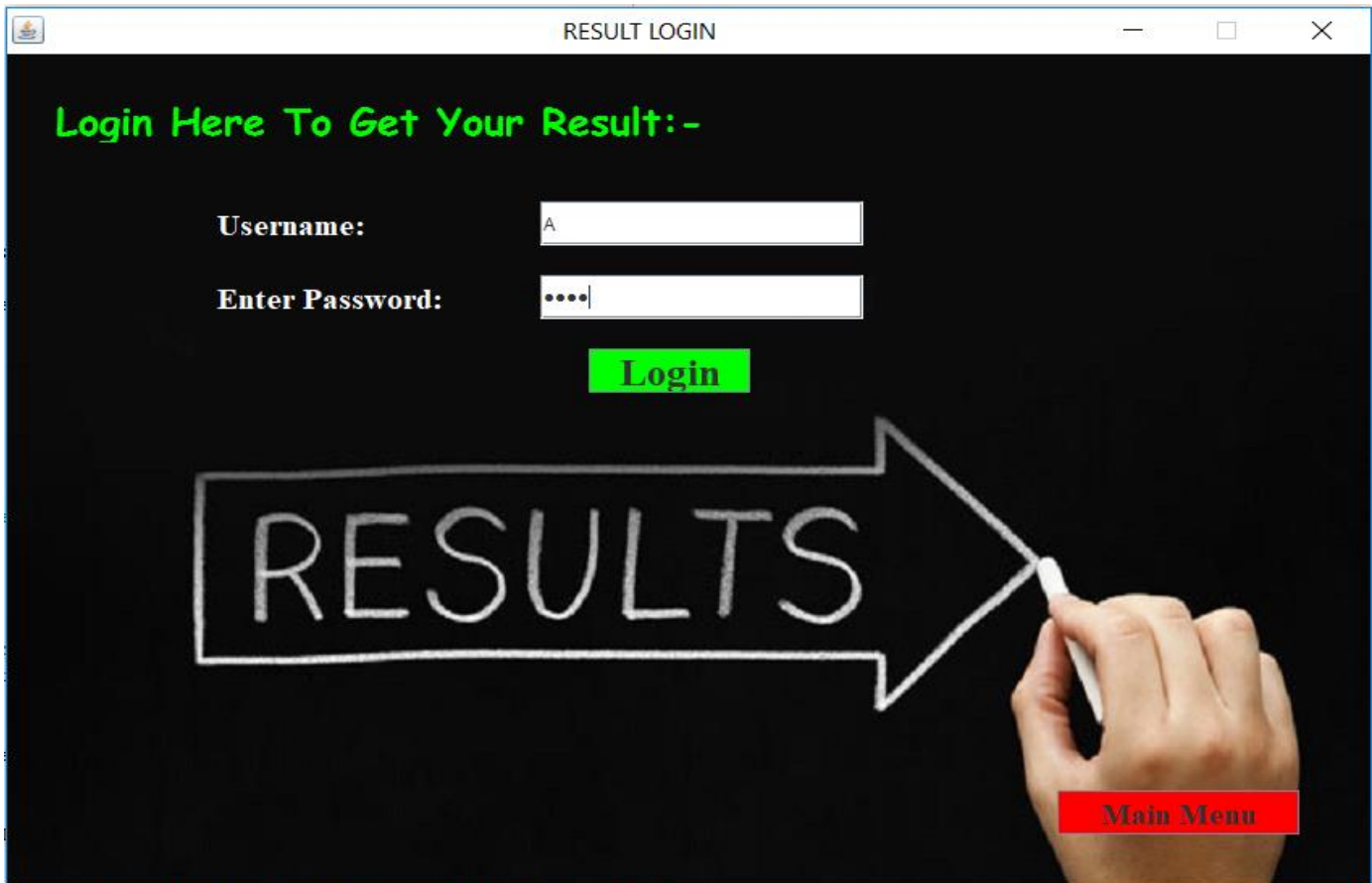
It has only one button i.e. "PERFORM SEAT ALLOACTION".

It prompts the Admin to click the button in order to perform the seat allocation to the students after they have been registered and filled their choices.

On clicking the button, the seats get allocated to the students and it opens the homepage frame by disclosing itself.

And now students can view their results.

7. Result:-



The screenshot shows a web browser window titled "RESULT LOGIN". The background is black. At the top, in green text, it says "Login Here To Get Your Result:-". Below this, there are two input fields: "Username:" with the letter 'A' entered, and "Enter Password:" with four dots. A green "Login" button is centered below the password field. In the center of the window, a large white arrow points to the right, with the word "RESULTS" written inside it. A hand holding a white marker is pointing at the tip of the arrow. In the bottom right corner, there is a red button labeled "Main Menu".

It is the frame which opens when the user selects the Results option from the homepage frame by clicking the Results button.

It prompts the user to login by providing the essential details required for login i.e. his/her name and password entered during registration.

It has an option Login as button and a second button "Main Menu" to go back to homepage frame.

On clicking Submit button after entering the required data the user gets his/her result in a new frame i.e. Display Result.

8.Display Result:-



It is the frame which opens when the user gets logged in from the Result frame.

This frame displays his/her rank, name and the seat-allocated to him/her.

The user can also save the screenshot of his/her result.

This completes the process of seat allocation.

DATABASE DESIGN:-

CREATED DATABASE “student” IN ORDER TO STORE STUDENT DATA. THIS DATABASE FURTHER CONTAINS FOLLOWING TABLES:-

```
C:\Program Files\MySQL\MySQL Server 5.5\bin\mysql.exe
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 26
Server version: 5.5.0-m2-community MySQL Community Server (GPL)

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use student;
Database changed
mysql> show tables;
+-----+
| Tables_in_student |
+-----+
| stud_choices      |
| stud_info         |
| stud_ranks        |
| stud_result       |
+-----+
4 rows in set (0.00 sec)

mysql> 
```


1.stud_info table:-

```
mysql> desc stud_info;
```

Field	Type	Null	Key	Default	Extra
student_id	int(11)	NO	PRI	NULL	auto_increment
name	varchar(30)	YES		NULL	
email	varchar(30)	YES		NULL	
password	varchar(30)	YES		NULL	
gender	varchar(30)	YES		NULL	
state	varchar(30)	YES		NULL	
marks	int(11)	NO		NULL	

```
7 rows in set (0.02 sec)
```

```
mysql>
```

FOR STORING DATA ENTERED BY USER(STUDENT) DURING REGISTRATION.

2.stud_choices table:-

```
mysql> desc stud_choices;
```

Field	Type	Null	Key	Default	Extra
name	varchar(30)	YES		NULL	
password	varchar(30)	YES		NULL	
choice_1	varchar(100)	YES		NULL	
choice_2	varchar(100)	YES		NULL	
choice_3	varchar(100)	YES		NULL	
choice_4	varchar(100)	YES		NULL	
choice_5	varchar(100)	YES		NULL	
choice_6	varchar(100)	YES		NULL	
choice_7	varchar(100)	YES		NULL	
choice_8	varchar(100)	YES		NULL	
choice_9	varchar(100)	YES		NULL	
choice_10	varchar(100)	YES		NULL	
choice_11	varchar(100)	YES		NULL	
choice_12	varchar(100)	YES		NULL	
choice_13	varchar(100)	YES		NULL	
choice_14	varchar(100)	YES		NULL	
choice_15	varchar(100)	YES		NULL	

```
17 rows in set (0.00 sec)

mysql>
```

FOR STORING DATA FROM CHOICEFILLING FRAME OF RESPECTIVE STUDENT.

3. stud_ranks:-

```
mysql> desc stud_ranks;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| rank       | int(11)       | NO   | PRI | NULL    |       |
| name       | varchar(30)   | YES  |     | NULL    |       |
| email      | varchar(30)   | YES  |     | NULL    |       |
| password   | varchar(30)   | YES  |     | NULL    |       |
| gender     | varchar(30)   | YES  |     | NULL    |       |
| state      | varchar(30)   | YES  |     | NULL    |       |
| marks      | int(11)       | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.02 sec)

mysql> _
```

FOR STORING DETAILS OF THE STUDENTS ACCORDING TO THEIR RANKS.

4. stud_result:-

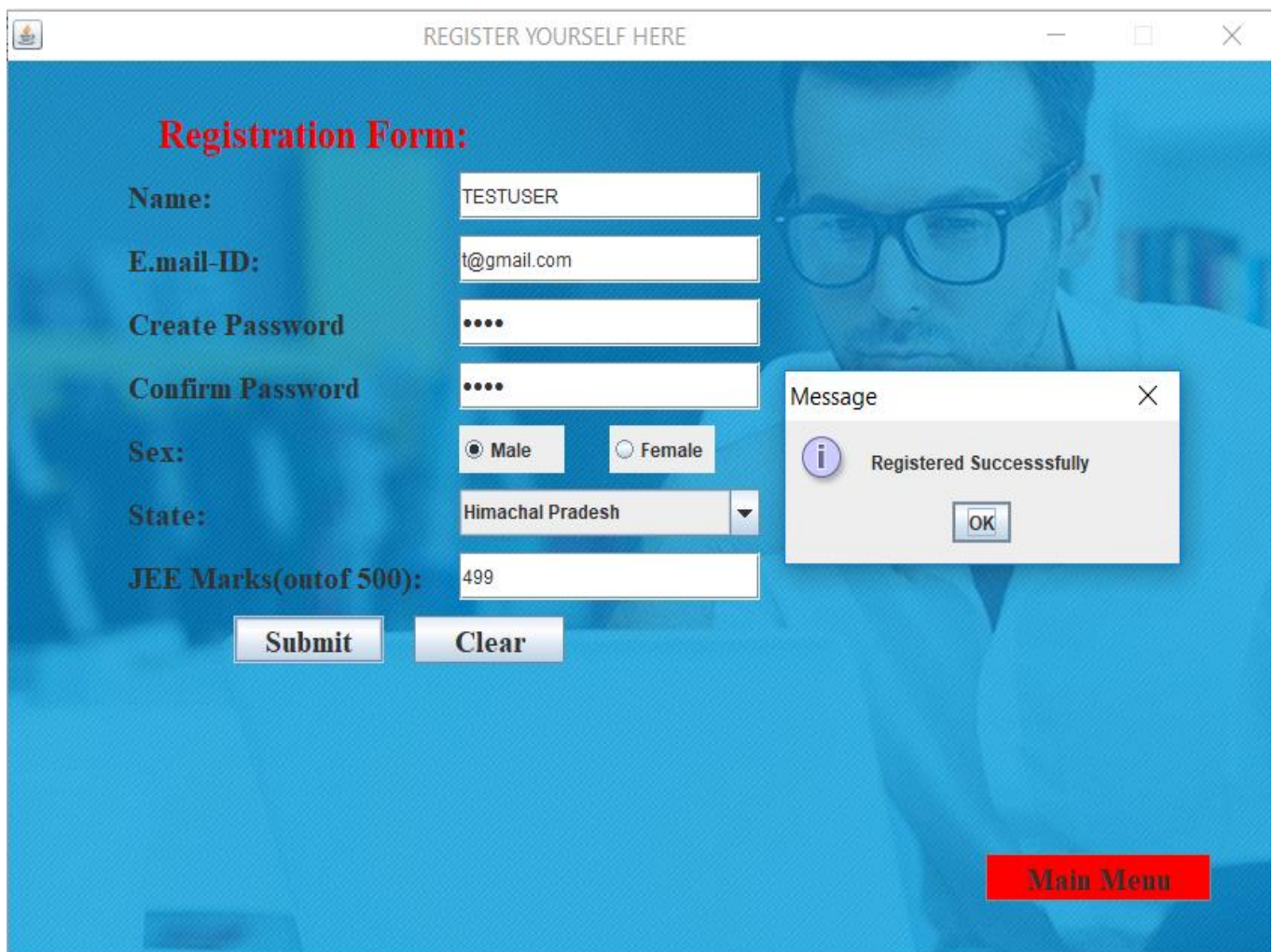
```
mysql> desc stud_result;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| rank           | int(11)       | NO   |     | NULL    |       |
| name           | varchar(30)   | YES  |     | NULL    |       |
| password       | varchar(30)   | YES  |     | NULL    |       |
| seat_allocated | varchar(100)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.02 sec)

mysql> _
```

FOR STORING RESULT AFTER SEAT ALLOCATION

RESULT AND EVALUATION:-

1. STUDENT REGISTERS:-



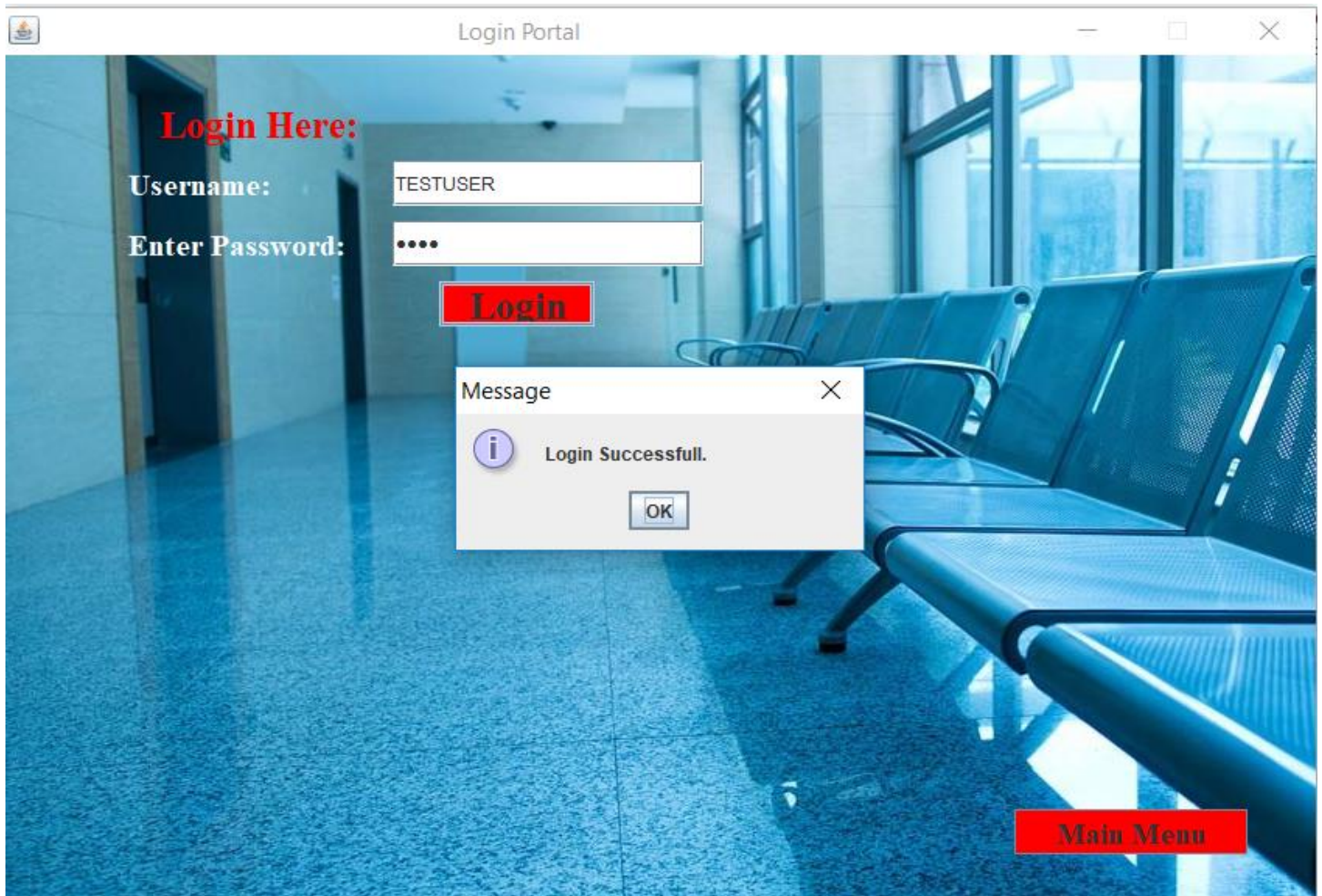
The screenshot displays a web browser window titled "REGISTER YOURSELF HERE". The main content area has a blue background with a faint image of a man wearing glasses. The registration form is titled "Registration Form:" in red. It contains the following fields and controls:

- Name:** A text input field containing "TESTUSER".
- E.mail-ID:** A text input field containing "t@gmail.com".
- Create Password:** A text input field with masked characters "....".
- Confirm Password:** A text input field with masked characters "....".
- Sex:** Two radio button options: "Male" (selected) and "Female".
- State:** A dropdown menu showing "Himachal Pradesh".
- JEE Marks(outof 500):** A text input field containing "499".

Below the form are two buttons: "Submit" and "Clear". A red "Main Menu" button is located in the bottom right corner of the page.

A "Message" dialog box is open on the right side of the form, displaying the message "Registered Successsfully" (note the typo) with an information icon and an "OK" button.

2. STUDENT THEN LOGS IN:-



3. STUDENT THEN FILLS THE CHOICES:-

WELCOME TO CHOICE FILLING

WELCOME TESTUSER

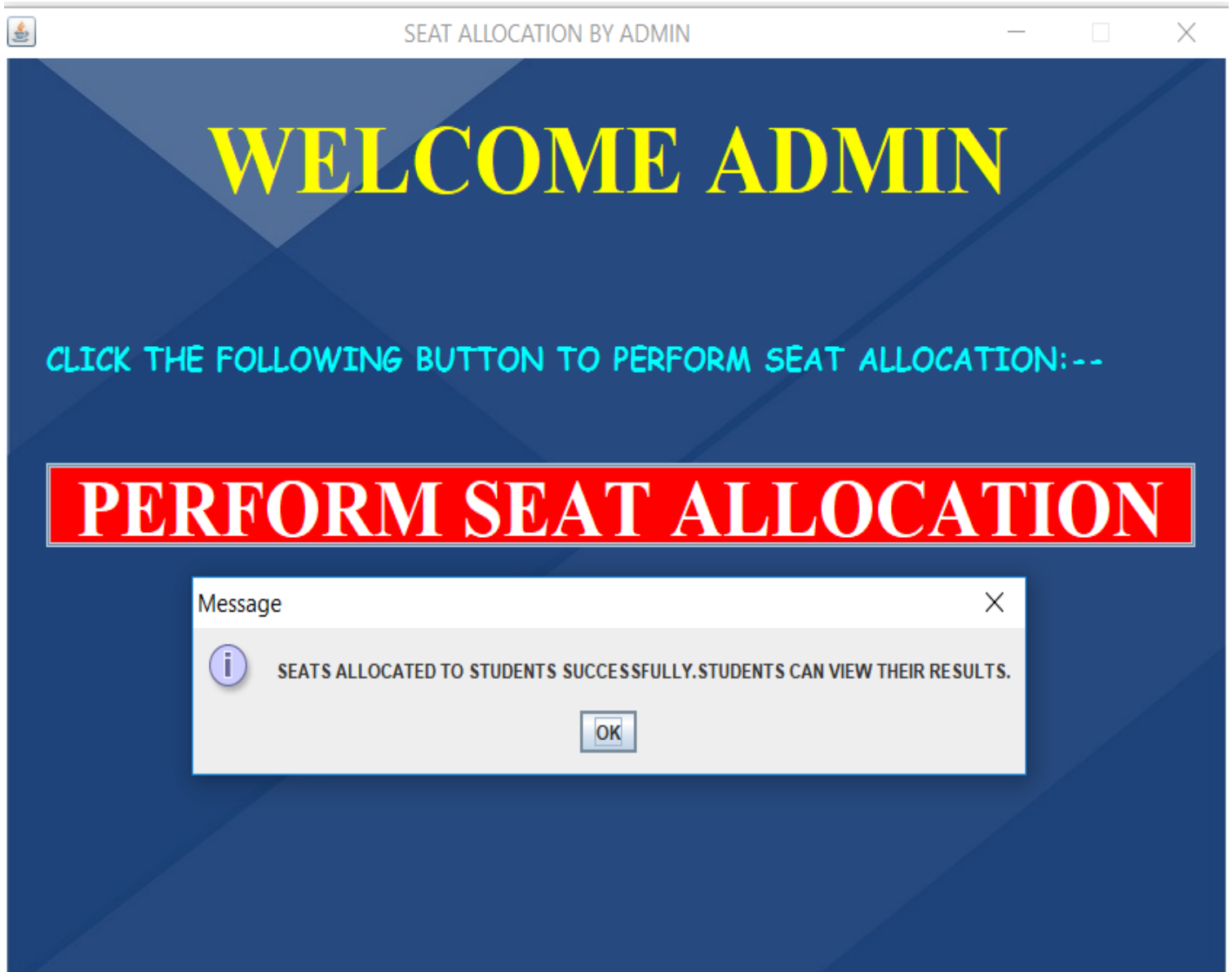
Please Fill Your Choices Here:--

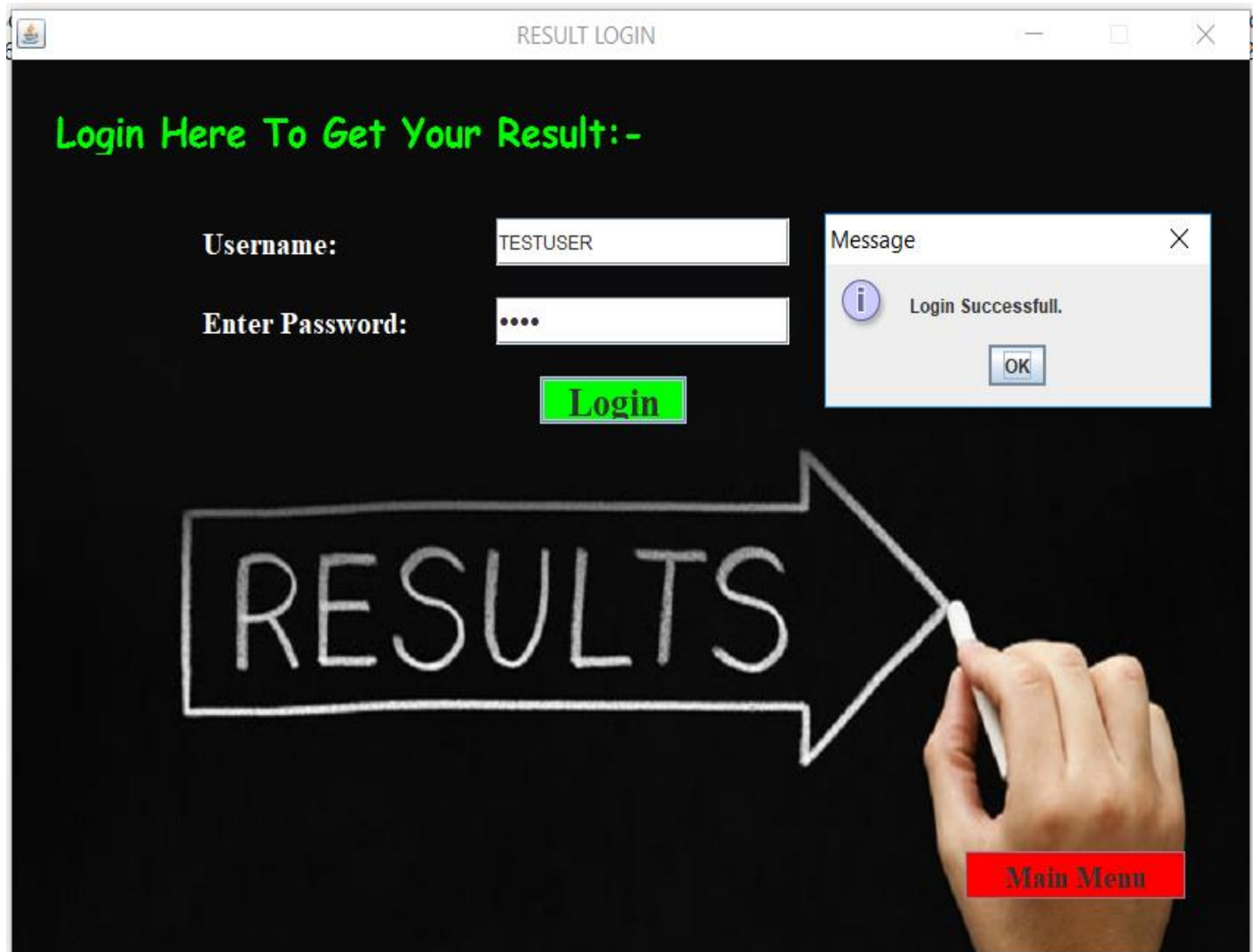
CHOICE 1:	CDAC-MOHALI: COMPUTER SCIENCE AND ENGINEERING
CHOICE 2:	CDAC-MOHALI: MECHANICAL ENGINEERING
CHOICE 3:	CDAC-NOIDA: MECHANICAL ENGINEERING
CHOICE 4:	NONE
CHOICE 5:	NONE
CHOICE 6:	NONE
CHOICE 7:	NONE
CHOICE 8:	NONE
CHOICE 9:	NONE
CHOICE 10:	NONE
CHOICE 11:	NONE
CHOICE 12:	NONE
CHOICE 13:	NONE
CHOICE 14:	NONE
CHOICE 15:	NONE

Select an Option

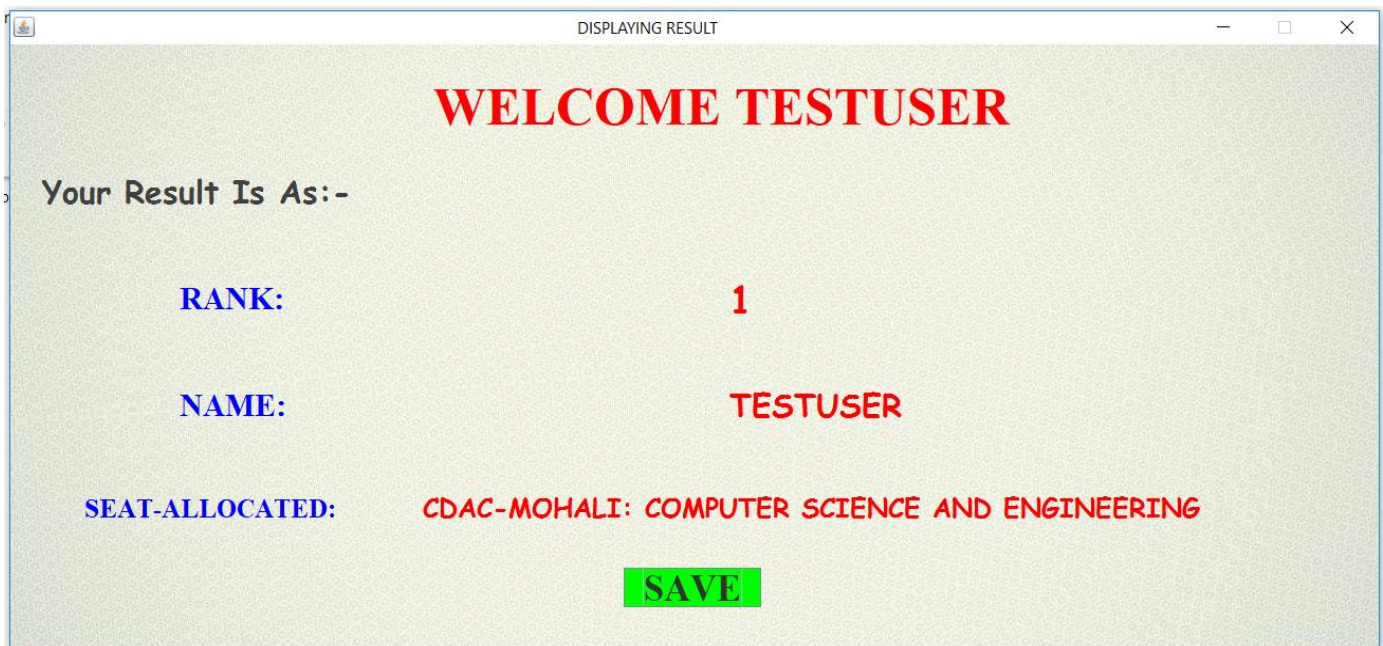
ARE YOU SURE TO LOCK YOUR CHOICES ? CHOICES ONCE LOCKED CAN'T BE CHANGED AGAIN!

4. AFTER SEAT ALLOCATION IS PERFORMED BY ADMIN, THE STUDENTS CAN VIEW THEIR RESULTS:-





5. IF THE STUDENT HAVE BEEN ALLOCATED SEAT THE DISPLAY RESULT FRAME WILL OPEN: -



CONCLUSION:-

Thus, this software allocates seats to the students as:

1. Students register themselves first,
2. They then login and fill their preferences,
3. After that they have to wait until the admin performs seat allocation.
4. After the admin has performed seat allocation they can view their results.