

Project Report

Object Oriented Design and Programming with Java 19CS3503

Student Online Voting System

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Content from ppt presented during 1st presentation.

DATABASE STRUCTURE

1.Admin Table

Field name	Data type	Description
Admin ID	Int(5)	Identifies admin(Primary Key)
Name	Varchar(45)	Login id for Admin
Username	Varchar(45)	Username of admin
Password	Varchar(45)	Password for Login

2.Candidates Table

Field name	Data type	Description
ID	Int	PK
Name	Varchar	-

3.Member(Student) Table

Field name	Data type	Description
ID	Int	PK
Name	Varchar	-
Username	Varchar	-
Password	Varchar	-

Project functionalities: -

- It's a web-based application developed on Java using JavaFX, IntelliJ idea and MYSQL.
- The core functionality of the application is to perform voting between 2 or more than two parties.
- Users can vote according to there interest to there respective candidate.
- Admin can check the result and announce the result at the end of the election.

Connection code snippet

```
package election.login;

import java.sql.Connection;    //for sql database connection
import java.sql.DriverManager;

public class DBConnection {

    public Connection databaseLink;

    public Connection getConnection(){
        String databaseName = "election";
        String databaseUser = "root";
        String databasePassword = "password";
        String url = "jdbc:mysql://localhost/" + databaseName;

        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            databaseLink = DriverManager.getConnection(url,databaseUser,databasePassword);
        } catch (Exception e) {

            e.printStackTrace();
        }

        return databaseLink;
    }
}
```

Insert record code snippet

```
public void registerUser(){
    DBConnection connection = new DBConnection();
    Connection connectDB = connection.getConnection();

    String name = nameTextField.getText();
    String username = usernameTextField.getText();
    String password = setPasswordField.getText();

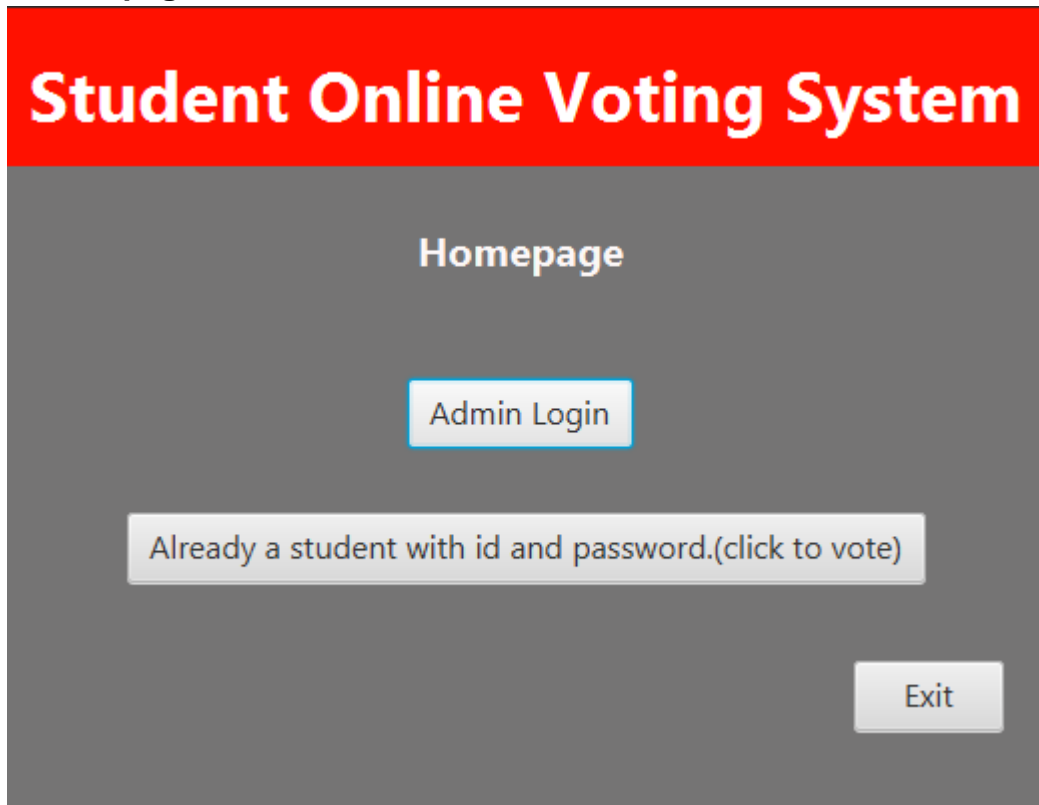
    String insertFields = "INSERT INTO student(name,username,password) VALUES ('";
    String insertValues = name + "',' + username + "',' + password + "')" ;
    String insertToRegister = insertFields + insertValues;

    try{
        Statement statement = connectDB.createStatement();
        statement.executeUpdate(insertToRegister);

        registrationMessageLabel.setText("User has been registered successfully !");
    } catch (Exception e){
        e.printStackTrace();
        e.getCause();
    }
}
```

5-6 Screen shots - demonstrated during 2nd demo

1.Homepage.



The screenshot shows the homepage of the 'Student Online Voting System'. It features a red header with the system name in white. Below the header, the word 'Homepage' is centered in a grey box. There is a blue 'Admin Login' button and a grey message box stating 'Already a student with id and password.(click to vote)'. An 'Exit' button is located in the bottom right corner.

Student Online Voting System

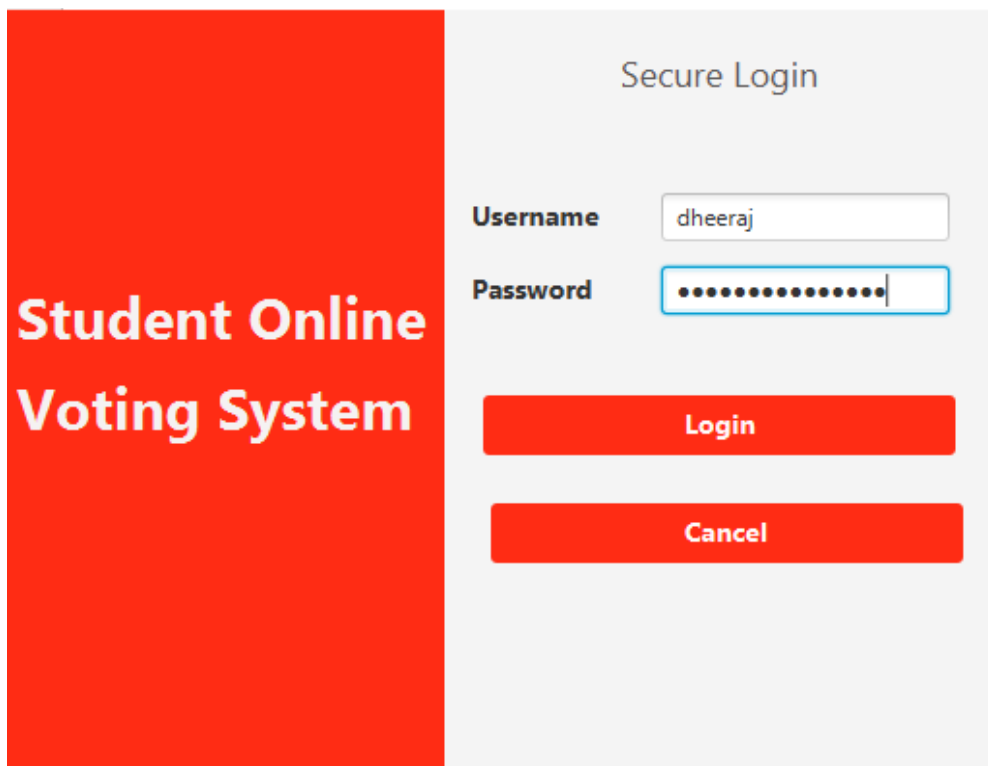
Homepage

Admin Login

Already a student with id and password.(click to vote)

Exit

2.Admin login page



The screenshot shows the admin login page. It has a red sidebar with the system name. The main area is titled 'Secure Login' and contains fields for 'Username' (with the value 'dheeraj') and 'Password' (masked with dots). There are red 'Login' and 'Cancel' buttons at the bottom.

Student Online Voting System

Secure Login

Username: dheeraj

Password:

Login

Cancel

3. Registering a user(student) through admin.

User Registration

User has been registered successfully !

name

username

password

confirm password

Register

Close

4. Showing that the registered user “hasn’t voted yet” in the database student table.

SCHEMAS

Filter objects

- election
 - Tables
 - admin
 - candidate
 - student
 - Views
 - Stored Procedures
 - Functions
- sys

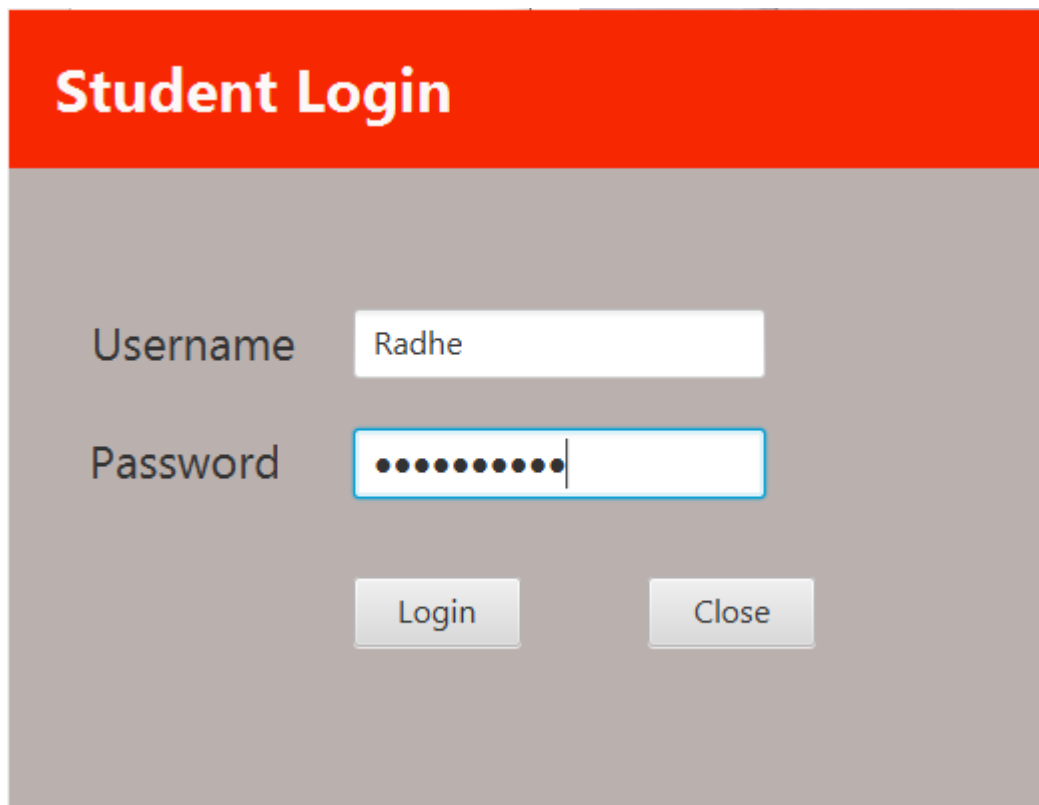
```
select * from student;
```

Limit to 1000 rows

Result Grid

	student_id	name	username	password	voting_to
1	1	neelam	neelam	asd	Narendra Modi
2	2	Radhe	Radhe	radheshyam	not yet voted
*	NULL	NULL	NULL	NULL	NULL

5. Logging in with the registered username and password.



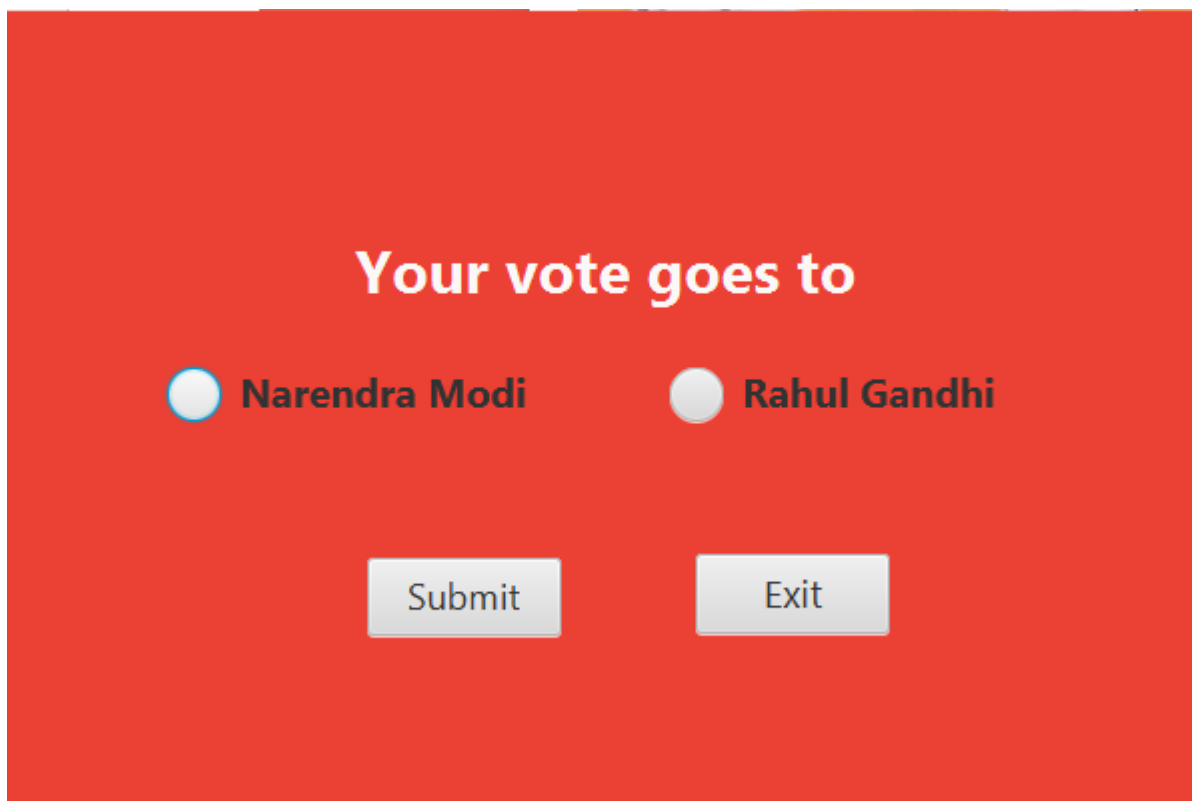
The image shows a login interface with a red header bar containing the text "Student Login" in white. Below the header, on a grey background, are two input fields. The first is labeled "Username" and contains the text "Radhe". The second is labeled "Password" and contains ten black dots, indicating a masked password. Below these fields are two buttons: "Login" and "Close".

Student Login

Username

Password

6. Voting to the candidate.



The image shows a voting interface with a solid red background. At the top, the text "Your vote goes to" is displayed in white. Below this, there are two radio button options. The first option is "Narendra Modi" with a blue radio button. The second option is "Rahul Gandhi" with a grey radio button. At the bottom, there are two buttons: "Submit" and "Exit".

Your vote goes to

☒ **Narendra Modi** ☐ **Rahul Gandhi**

7.Displaying that the vote has been updated in the database.

Your vote has been updated to the database successfully !
ThankYou for your vote.

Your vote goes to

☐ **Narendra Modi** ☒ **Rahul Gandhi**

8.Checking it in the table 'student' for the student's vote. And hence successfully voted for the candidate.

SCHEMAS

Filter objects

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1 • `select * from student;`

2

3

Limit to 1000 rows

Result Grid

	student_id	name	username	password	voting_to
▶	1	neelam	neelam	asd	Narendra Modi
	2	Radhe	Radhe	radheshyam	Rahul Gandhi
*	NULL	NULL	NULL	NULL	NULL