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

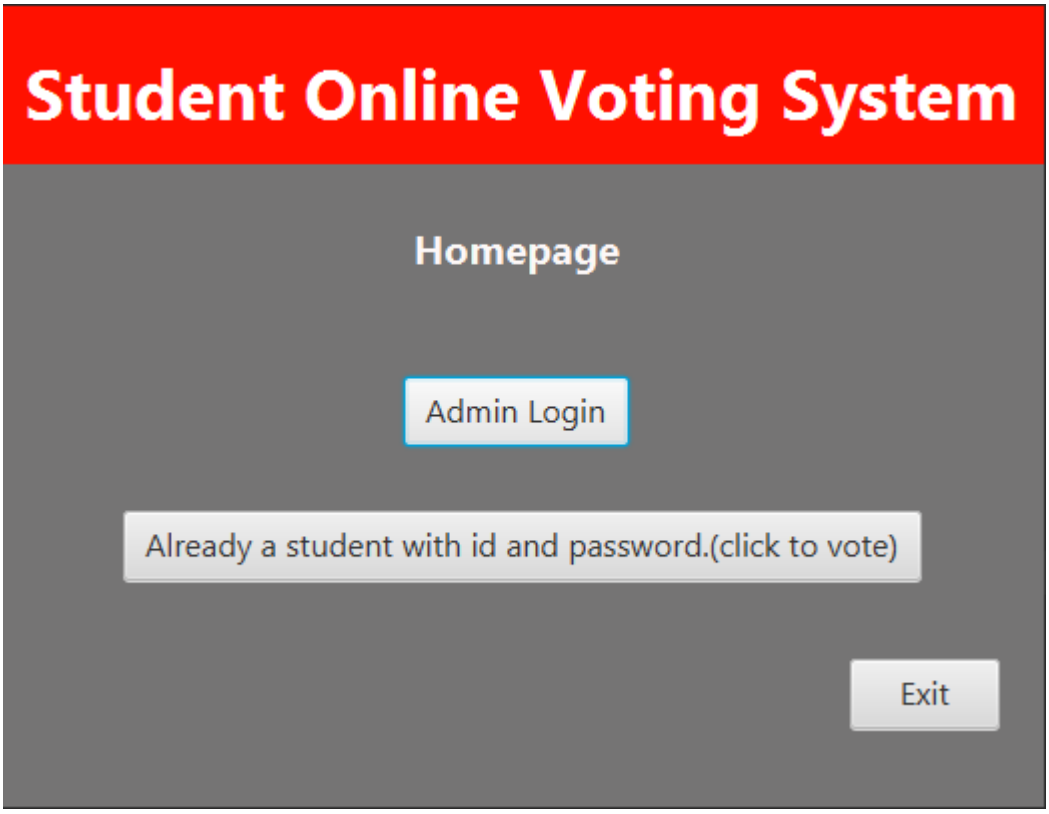
```
package election.login;
import java.sql.Connection;     //for sql database connection
import java.sql.DriverManager;

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

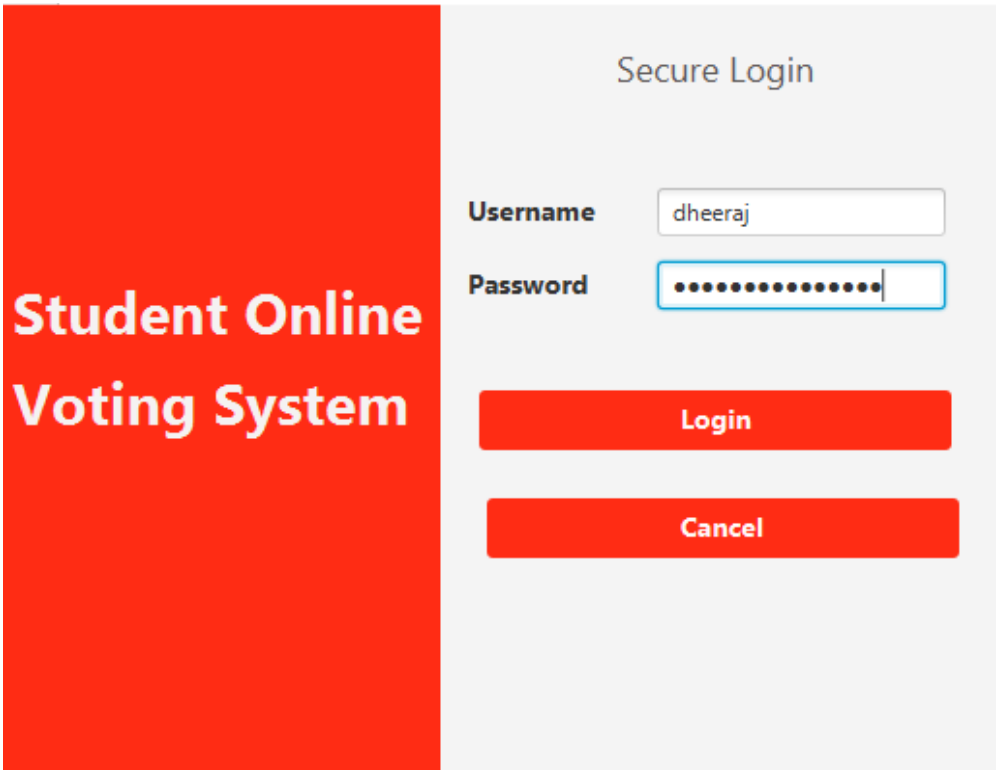
```
public void registerUser(){
    DBConnection connection = new DBConnection();
    Connection connectDB = connection.getConnection();

    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

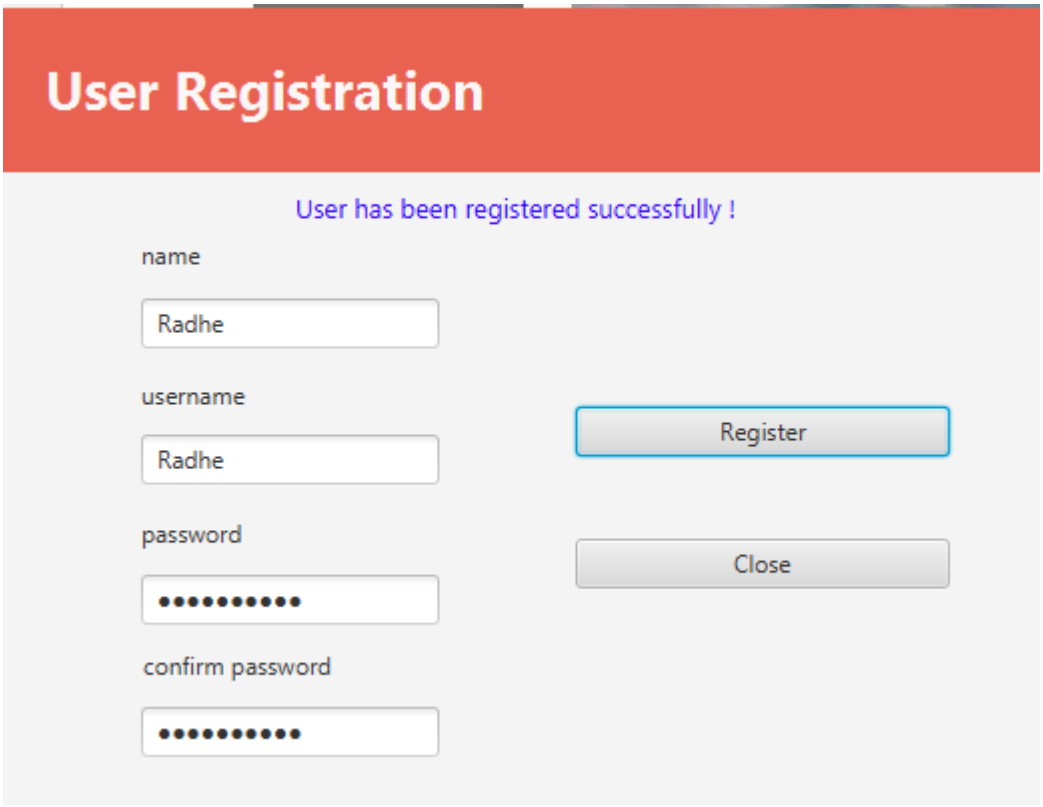
1.Homepage.



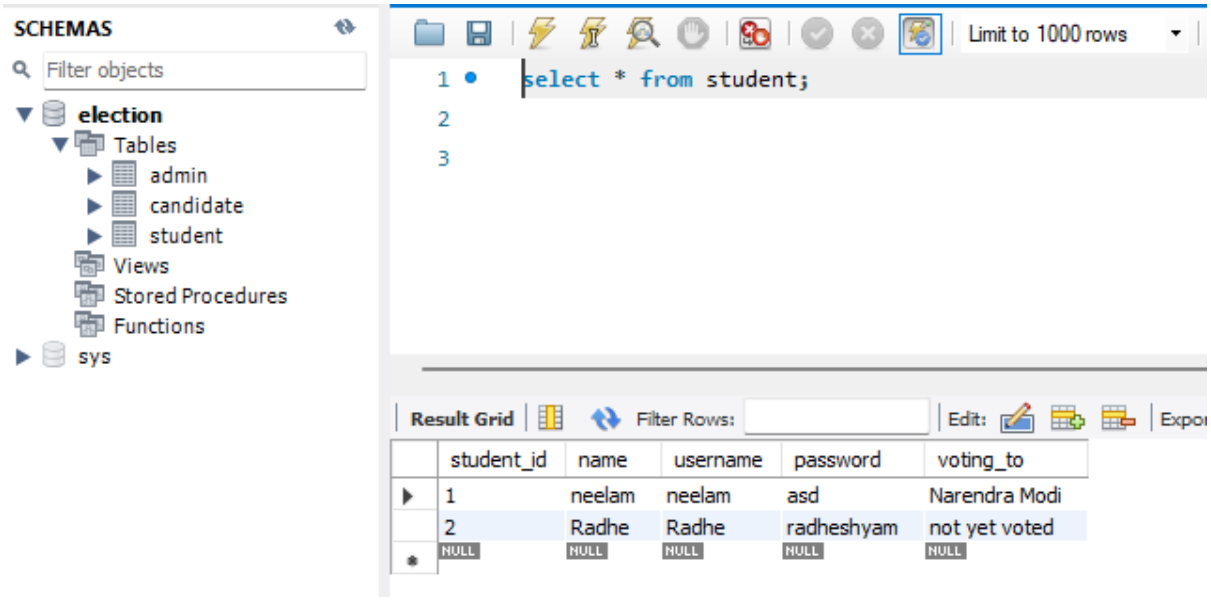
2.Admin login page



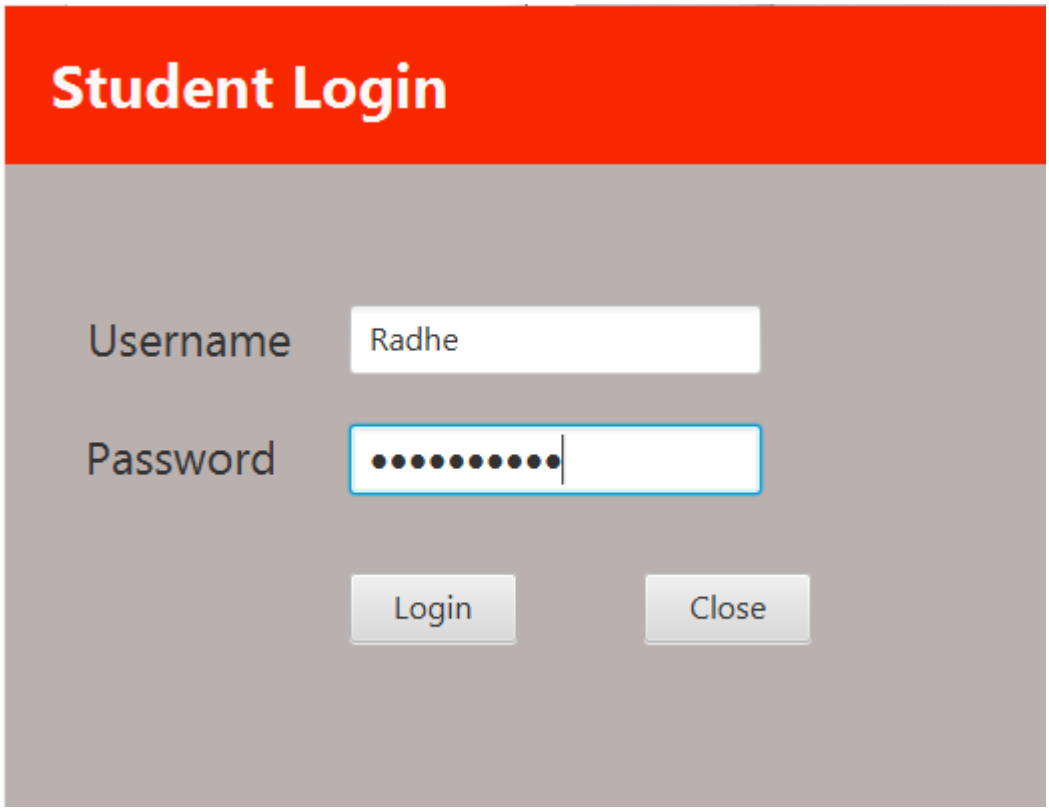
3.Registering a user(student) through admin.



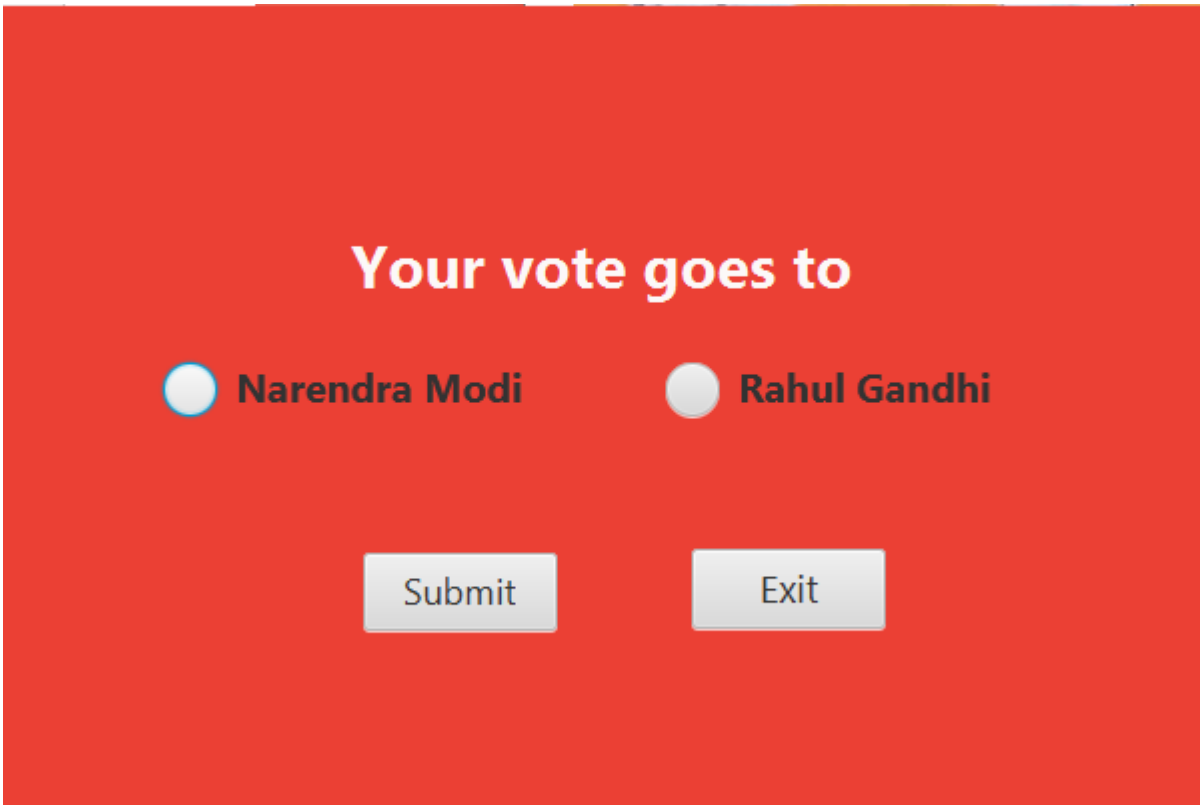
4.Showing that the registered user “hasn’t voted yet” in the database student table.



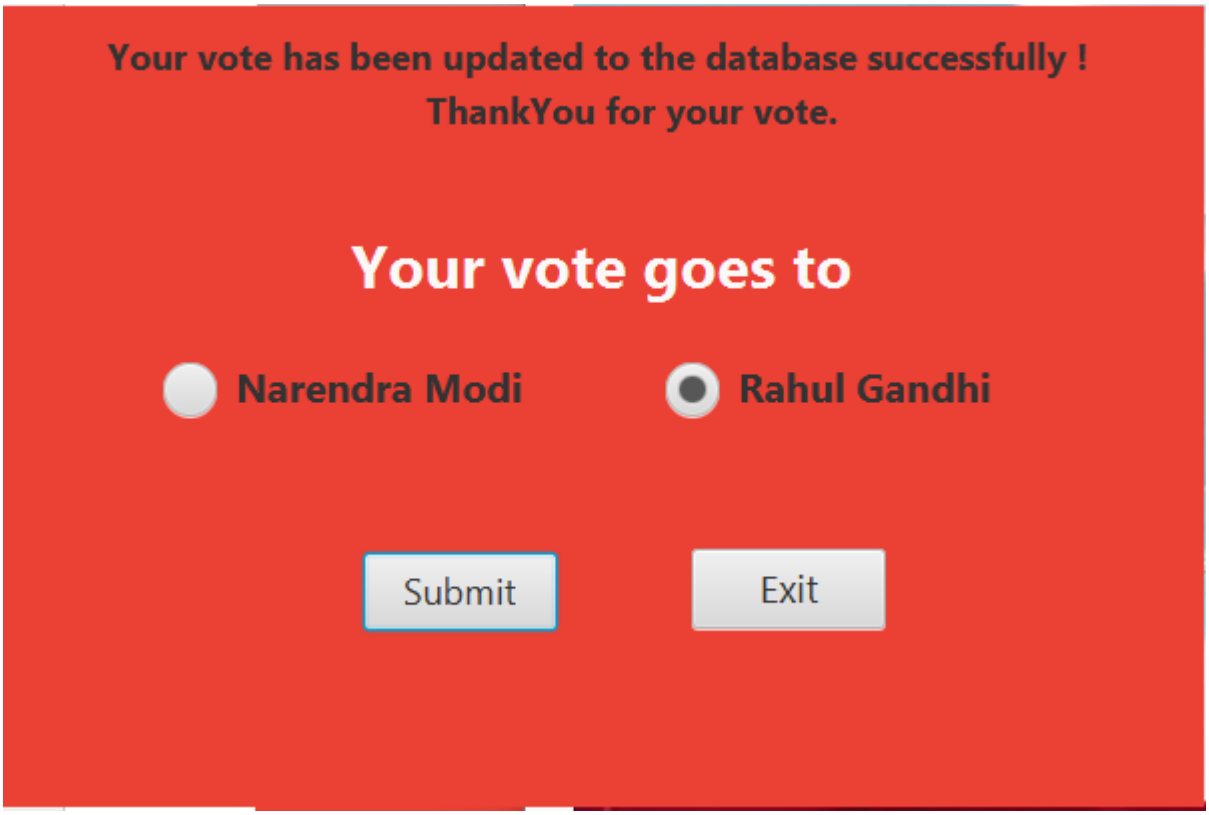
5.Logging in with the registered username and password.



6.Voting to the candidate.



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



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