WEBTECHNOLOGY PROJECT

SUBMITTED BY

ABINAYA.M.N NANDHINIPRIYA.J

ONLINE VOTING
SYSTEM

Introduction:

This project is about "Atheneum online voting system" using JAVA language. Online voting system are software platforms used to securely conduct votes and elections. As a digital platform they eliminate the need to cast your votes using paper or having to gather in person. The forms are created using java swing and the contents are stored in the database and it is retrieved using JDBC connectivity(mysql).

Concepts used:

JDBC(Java Database Connectivity):

JDBC is an application programming interface(API) for the programming language Java, which defines how a client may access a database.

It is part of the Java Standard Edition platform, from Oracle Corporation.it allows multiple implementations to exist and be used by the same application.

Java Swings:

Swing is a GUI widget toolkit for JAVA. It is a part of Oracle's Java Foundation Classes(JFC) - an API for providing a graphical user interface(GUI).

Unlike AWT components, Swing components are not implemented by platform-specific code. Instead, they are written entirely in java and therefore are platform-independent.

PREREQUISITE:

- Eclipse IDE
- JDBC connectivity
- Java Swing
- Mysql-xampp

First we have to start the mysql in xampp control panel:



And then, we have to create database named "voting" and then you have to create tables for that database. The table names are:

- > extrainfo
- > personal
- > users
- > voters
- > voteslist

> admin

The 'admin status' alone should be inserted as "stop" (voting system should me stopped until admin starts it).

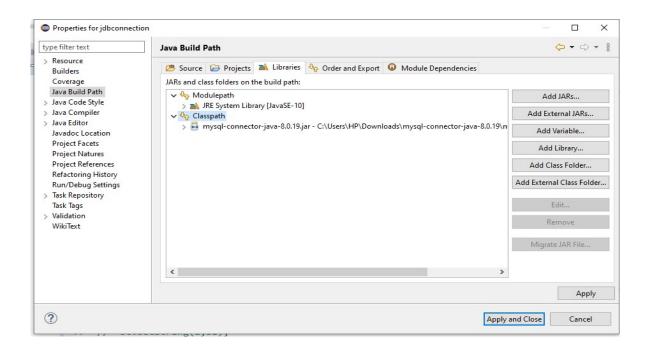
```
MariaDB [voting]> desc admin;
 Field | Type | Null | Key | Default | Extra
status | varchar(10) | YES |
row in set (0.082 sec)
MariaDB [voting]> desc extrainfo;
 Field
                Type
                                   | Null | Key | Default | Extra |
 regno | int(10)
dept | varchar(20)
designation | varchar(20)
username | varchar(20)
                                                      NULL
                                                      NULL
                                   YES
YES
                                                      NULL
                                                      NULL
 rows in set (0.010 sec)
lariaDB [voting]> desc personal;
                | Type
 Field
                                   | Null | Key | Default | Extra
                 varchar(20)
varchar(20)
varchar(20)
 password
firstname
                                    YES
                                                      NULL
 lastname | varchar(20)
age | int(10)
designation | varchar(20)
                                    YES
YES
                                                      NULL
 rows in set (0.010 sec)
lariaDB [voting]> desc users;
                Type
                                 | Null | Key | Default | Extra |
 Field
 username | varchar(20) | YES
password | varchar(20) | YES
designation | varchar(20) | YES
                                                      NULL
                                                      NULL
 rows in set (0.010 sec)
```

In eclipse, the project name is <u>VOTING</u>. In this we have nine classes, the class names are:

- 1. admin
- 2. candidate
- 3. candidatelogin
- 4. database
- 5. login
- 6. signup
- 7. validate
- 8. voter
- 9. voterlogin

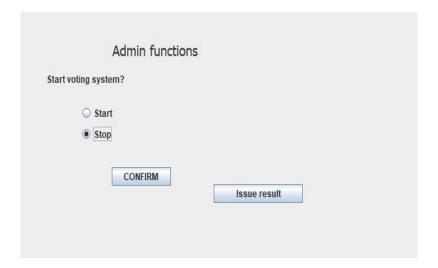
JDBC connectivity:

Add the external JARs of mysql connector in the build path.



Admin:

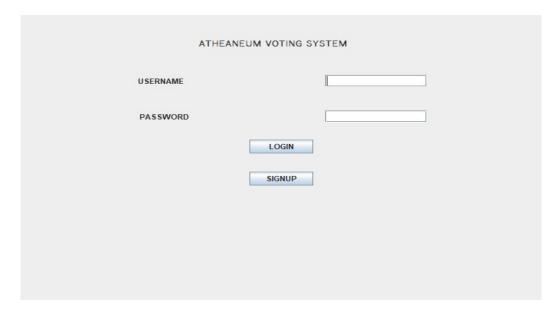
The admin should start the voting system in the required time. Until that voters and candidates can signup in the portal and they can't login.



When the voting system should 'start' the admin should start it until that it will be as 'stop'.

LOGIN:

The user should signup before login. Only after starting the voting system only user can login it. Click the signup button for signup.

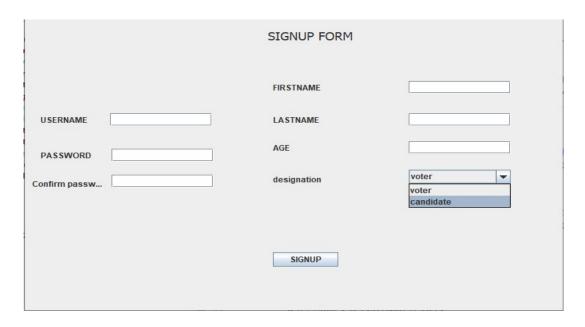


SIGNUP:

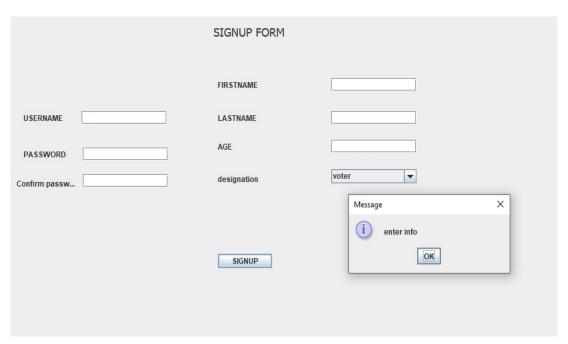
The voter or candidate should enter all the details for signup.

	SIGN	NUP FORM		
	FIRST	TNAME		
USERNAME	LAST	NAME		
PASSWORD	AGE			
Confirm passw	desig	gnation	voter	-]
	S	SIGNUP		

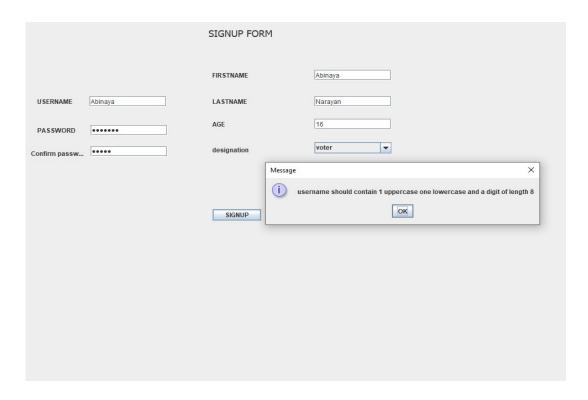
The user should enter his/her details and designation can be selected as voter or candidate.



If any one of the details is not entered it will pop a alert message.

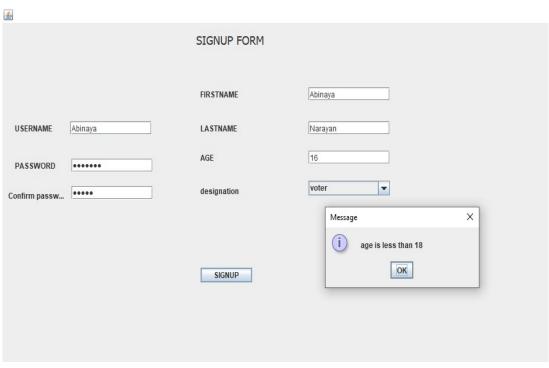


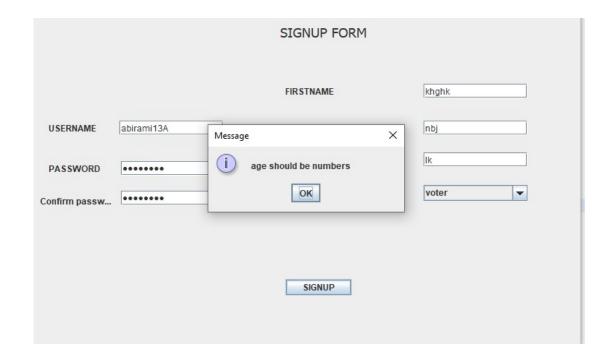
The validation of every detail is checked. Age should be greater than or equal to 18.



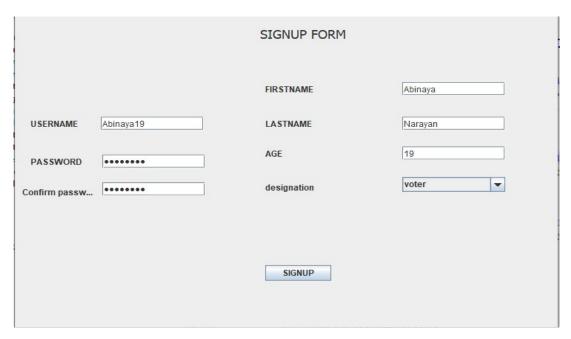






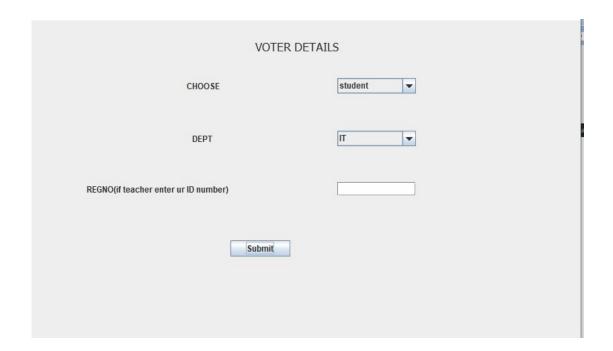


After entering the valid details click the signup button.

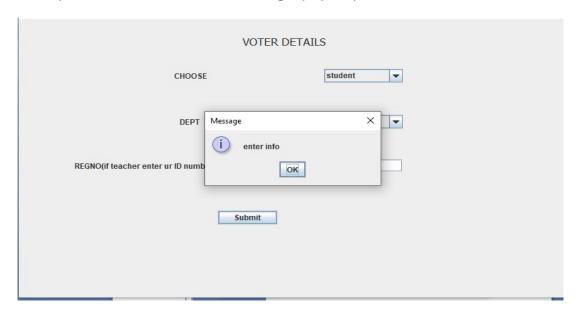


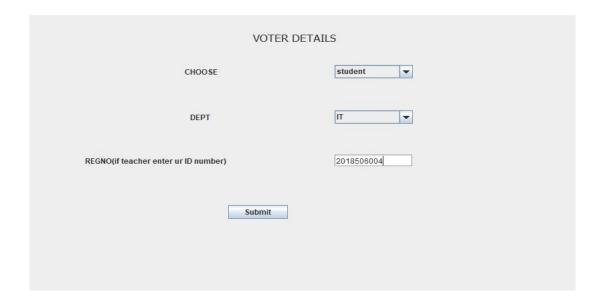
VOTER DETAILS:

It goes to voter details



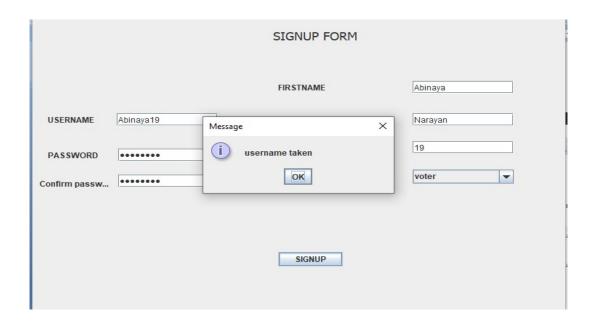
If any not entered ,Alert message pops up...





And click the submit button.

The details will be stored in the database.



If username is already taken it shows the alert message.

Database:

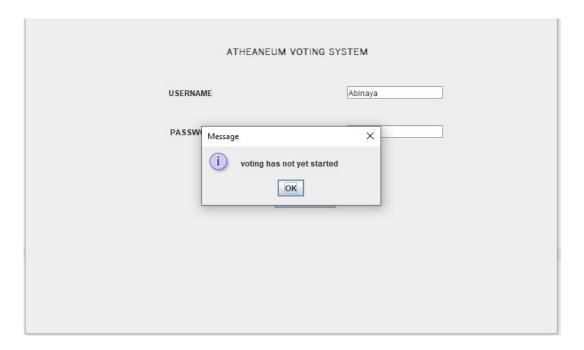
```
ariaDB [voting]> select * from users;
             password | designation
username
Abinaya19
              Abi@2000
                           voter
              Nara@1975
Buva@1971
Narayana10
                           voter
Buvana18
                           voter
 nandhini15
              nandy@A1
                           voter
 seetha189
              Seetha@13
                           voter
                           candidate
 Abishek19
              Abi@2000
              Seetha@13
Seetha19
                          candidate
 rows in set (0.00 sec)
lariaDB [voting]> select * from extrainfo
regno
              dept | designaton | username
 2018506004
                      student
                                   Abinaya19
 2018506054
                      student
                                   Narayana10
      32465
                      teacher
                                   Buvana18
 2018506069
                      student
                                   nandhini15
       5485
                     teacher
                                   seetha189
 2018503064
                      student
                                   Abishek19
 2018506140
                     student
                                   Seetha19
 rows in set (0.00 sec)
lariaDB [voting]> select * from personal;
              password | firstname
username
                                       | lastname | age | designation
              Abi@2000
Abinaya19
                           Abinaya
                                         Narayan
                                                            voter
              Nara@1975
Buva@1971
                                                       20
 Narayana10
                           naravana
                                         moorthy
                                                            voter
                                         moorthy
                                                       40
Buvana18
                           buvaneswari
                                                            voter
 nandhini15
              nandy@A1
                           nandhini
                                                            voter
                                         priya
 seetha189
              Seetha@13
                                                       39
                                                            voter
                           ram
                                         arjun
                           abishek
                                                            candidate
 Abishek19
              Abi@2000
                                         kumar
 Seetha19
              Seetha@13
                           Seetha
                                         lakshmi
                                                            candidate
 rows in set (0.00 sec)
MariaDB [voting]>
```

```
MariaDB [voting]> select * from voters;
             status
 name
 Abinaya19
              notcompleted
 Narayana10
              notcompleted
 Buvana18
              notcompleted
 nandhini15
              notcompleted
 seetha189
              notcompleted
 rows in set (0.00 sec)
MariaDB [voting]> select * from voteslist;
 candidate | votes |
 Abishek19
                  0
 Seetha19
                  0
 rows in set (0.00 sec)
MariaDB [voting]> _
```

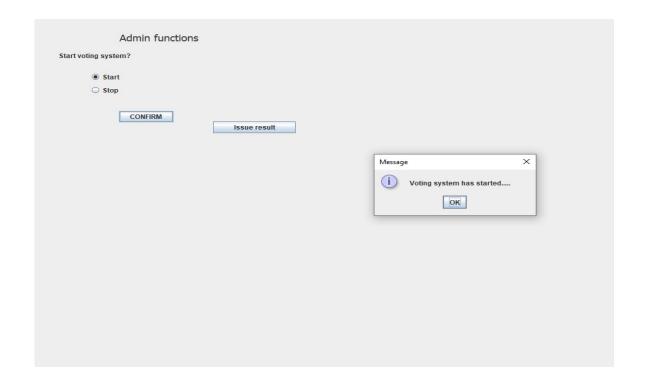
Voters status will be 'not completed' until they vote ,If they voted,it changes to 'completed'.

The candidates votes will be initially 0, when voting gets started it will incremented based on votes.

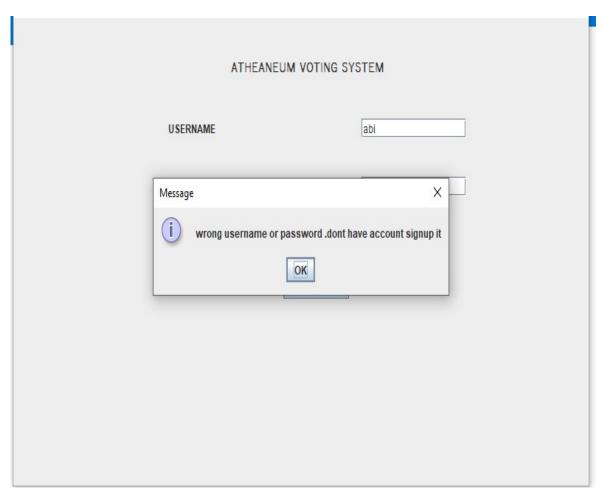
If any user try to login before admin starts the voting system, it shows the error message.



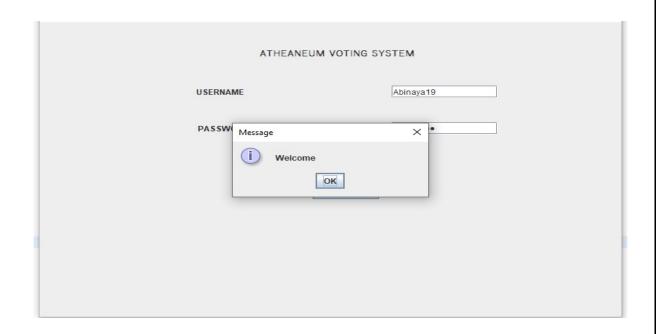
Now lets start the voting system.



Now login into the voting system, if username and password not matches it shows the error message.



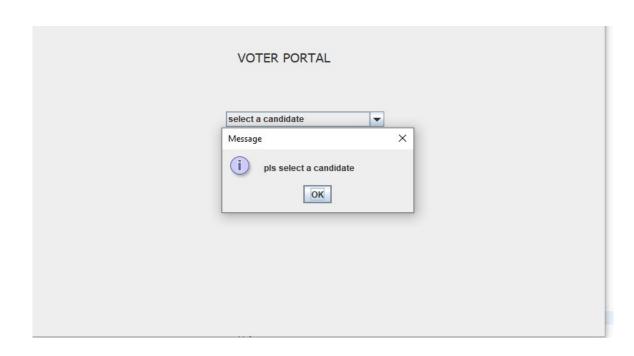
ATHEA	NEUM VOTING SYSTEM
USERNAME	Abinaya19
PASSWORD	•••••
	LOGIN
	SIGNUP

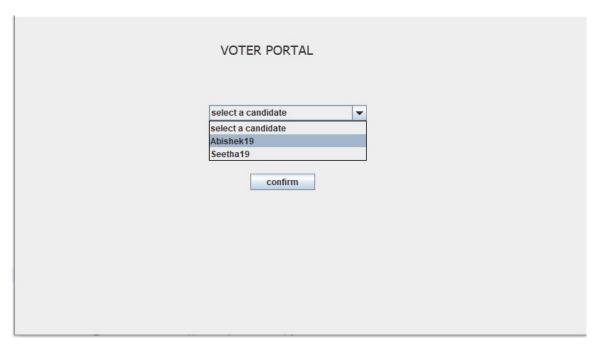


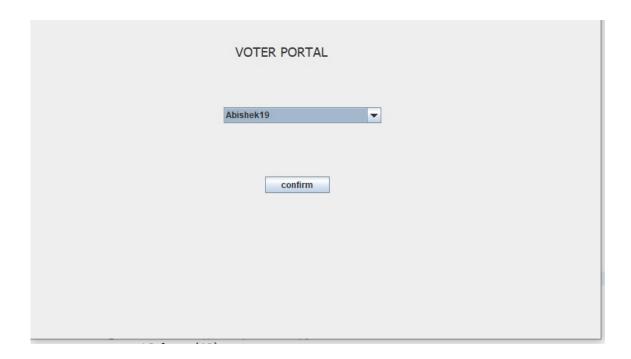
After login, it goes to voter portal and there we can select a candidate.



If no candidate selected ,it pops up the alert message.



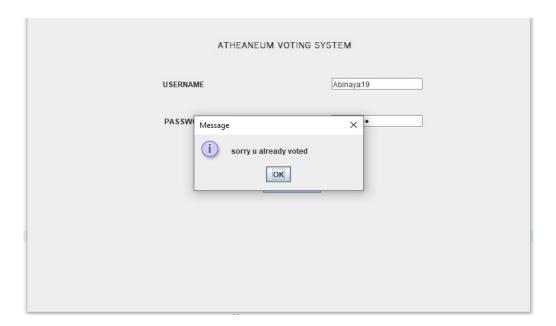




After selecting a candidate click the confirm button.

So in database the status of each voter will get changed to completed after voting.

The votes of each candidate gets incremented.



If any voter tries to relogin it gives the alert message.

The candidate can login and see their votes during voting.



So atlast if the voting time has finished the admin stops the voting system and issues the results.





Conclusion:

The Online voting system project has done succefully with Java language.