OOAD PROJECT REPORT:

PROJECT TITLE : Online Voting Management System

team members:

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Abastract :

This Software will help to create a interface for ElectionProcess that happens. We cannot say that the very confidential elections like the political elections could be handled by our project but elections of school head boy and other simple stuff could use our software .

We have place for Admin who conducts the election and Candidates who can Stand in Elections and take part in the elction process and also the Voters .

Functionalities:

The functionality of a Voter is to cast vote and view the available elctions that he can take part in and also the candidates in that particaular election.

The functionality of the candidtate is to view the elections and register for the elections.

The functionality of the Admin is to create a election and view all the elctions and the candidates in it also he has access to the data of all the voters and candidates.

The is a possiblility of more that one Admins.

Design Patterns used:

1) Proxy Design pattern : In which the election table has a interface which is implemented by two classes namly fullElectionOps and ProxyElectionOps and as we know the proxy class has a functionality of access control that is to say that some functionalities of the full election ops are not instansiated in the proxy election ops. The Voter and Candidate have only access to the proxy table that means the can only access view functions and admin can access the fullElectionOps that means he can create and delete also.

2)Repository Design Pattern: The JpaRepository used will abstract all the logic of storing the data in the actual database that is the queries that it uses for create ,insert and etc.It only provides the functions of create delete etc in form or .save() .findAll() .findById() etc we need to override those and perform our own operations.

Model Classes:
main:
1) Voter 3)Admin 5) Cred
2) Candidate 4)Election

Helper:
1) Stander: this class stores the informatation of the candidate registering for the election.

(Repositories are created for the above classes)

Controllers:

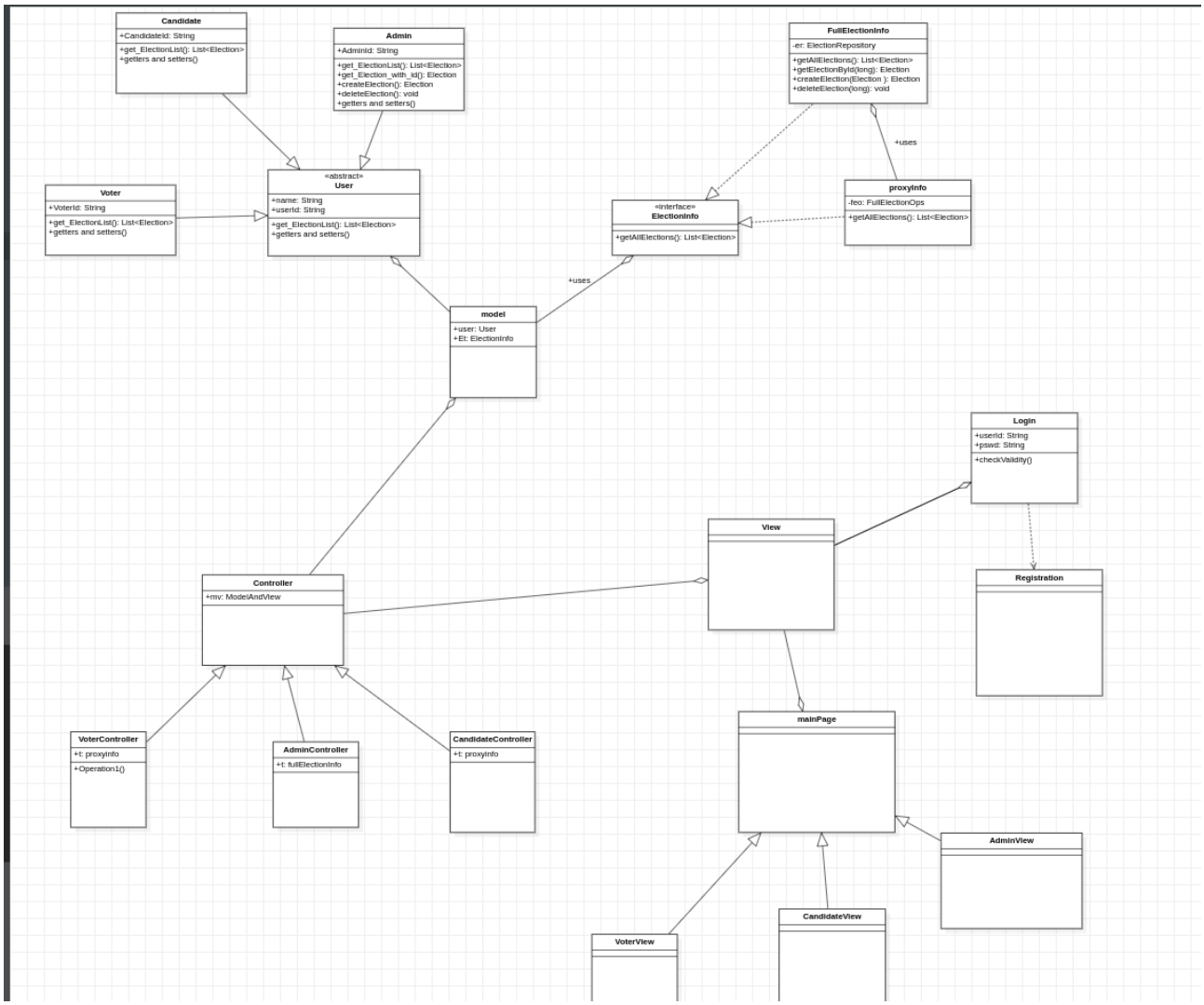
1) Main Controller: this has get and post methods of the login , register and home page

2) VoterController:this has get and set methods of the voter main page.

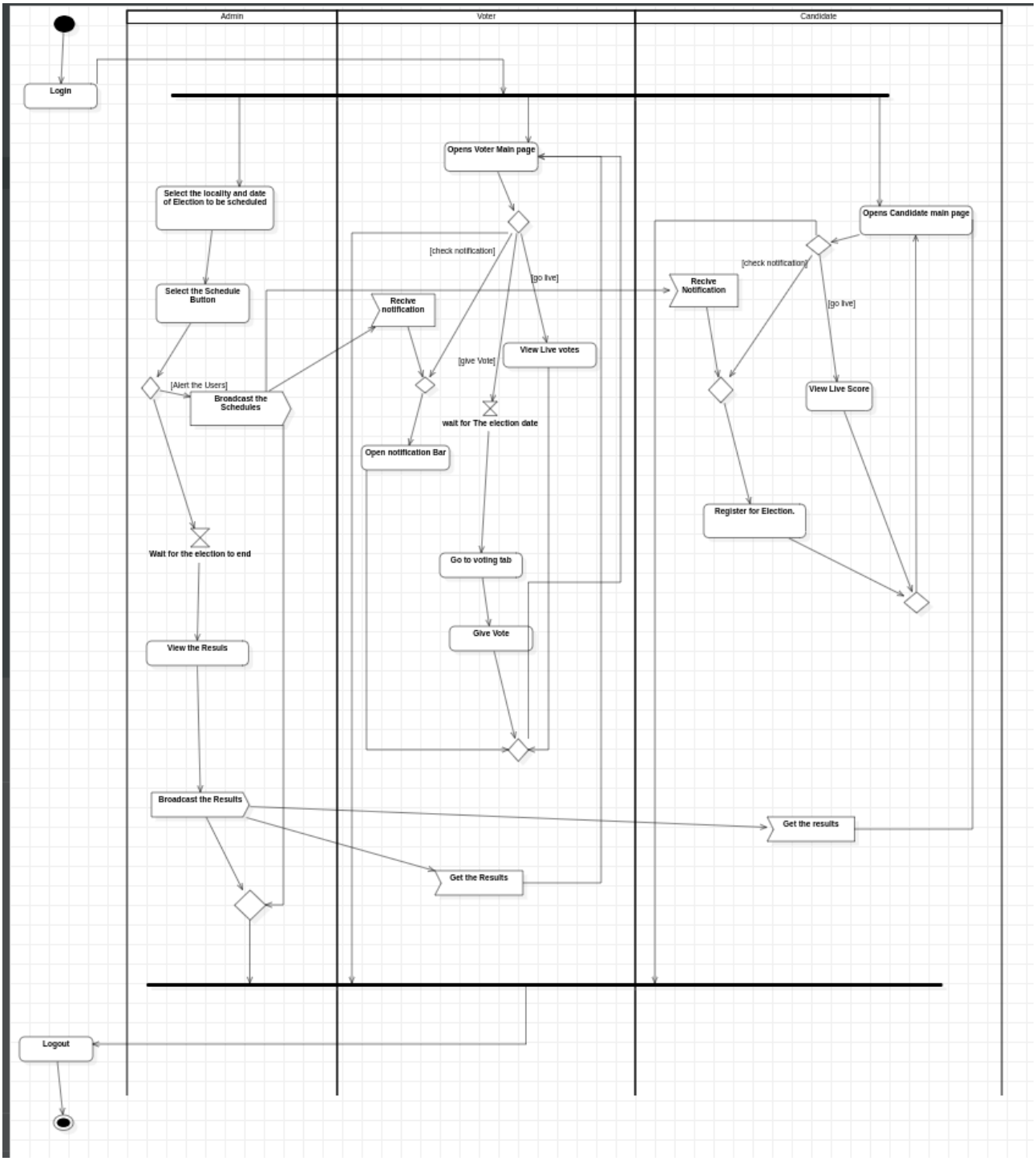
3) CandidateController and admin Controller also has the above for their main pages.

UML DIAGRAMS:

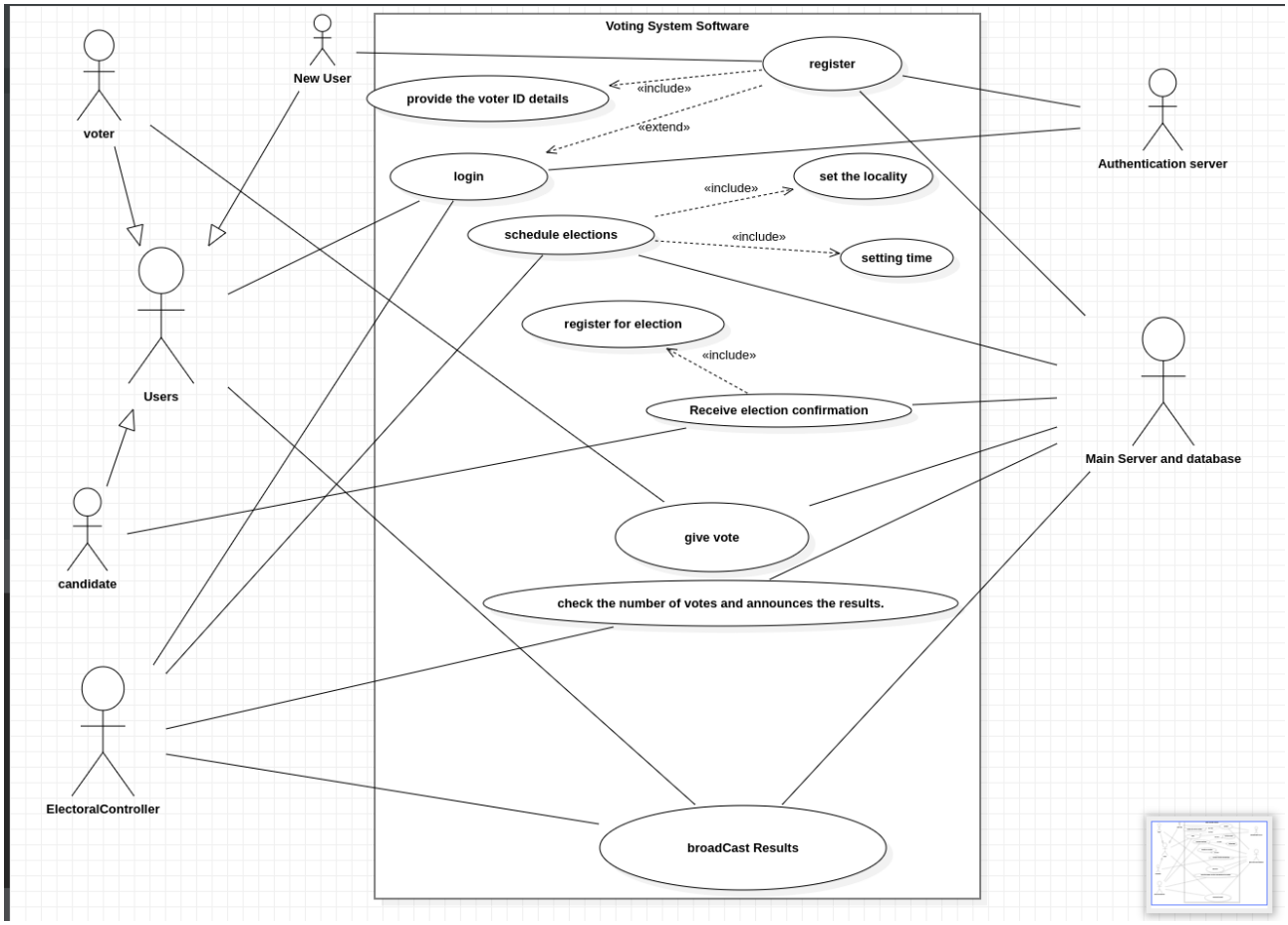
class diagram:



Activity Diagram:



Use Case Diagram:



Git Hub Link:

https://github.com/Kiranhk-21/Online-voting-system