Software Architecture: Requirement & Design
CS 457
Assignment-2

Submitted by
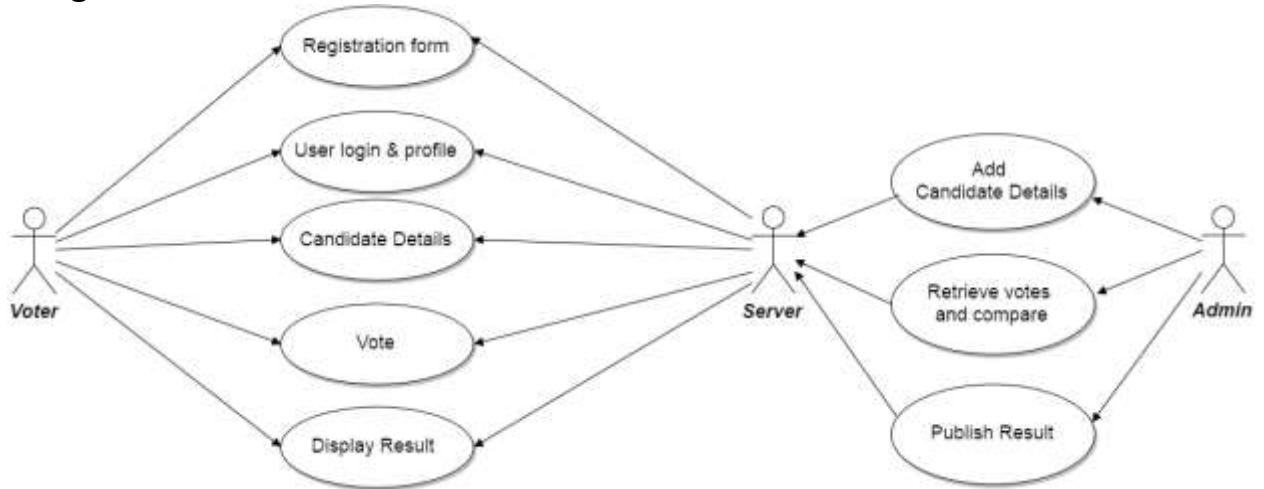**Group 8**
Teja Garidepally (9)
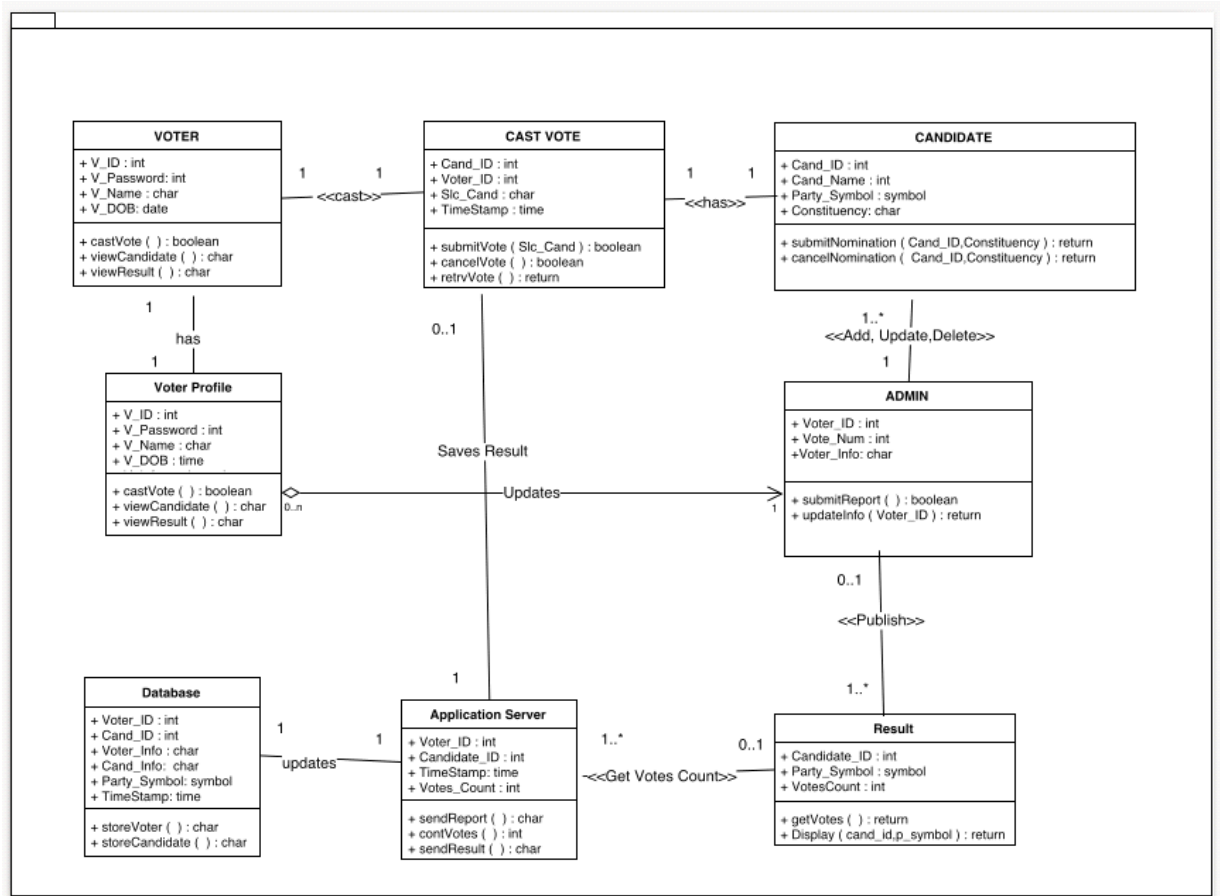Raj Kiran Reddy Munnangi(26)
Suhas Sai Raparthi(32)
Hakami Faisal Hassan A(13)

Use case 1: Vote for your future:

1. **Use case Diagram: The diagram shows different activities of the system along with the actors associated with them.**
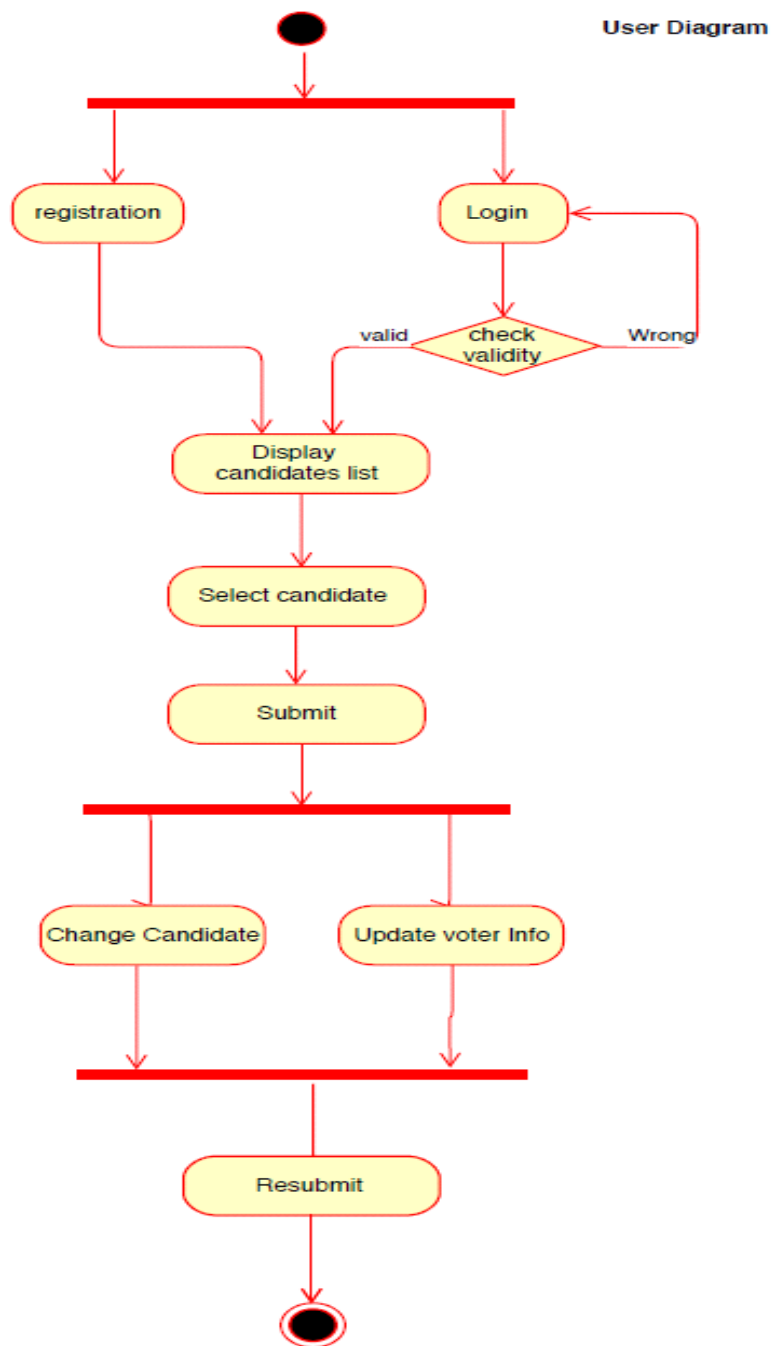

2. **Class Diagram: The diagram represents the structure of the system in terms of objects, classes, attributes, operations and associations.**
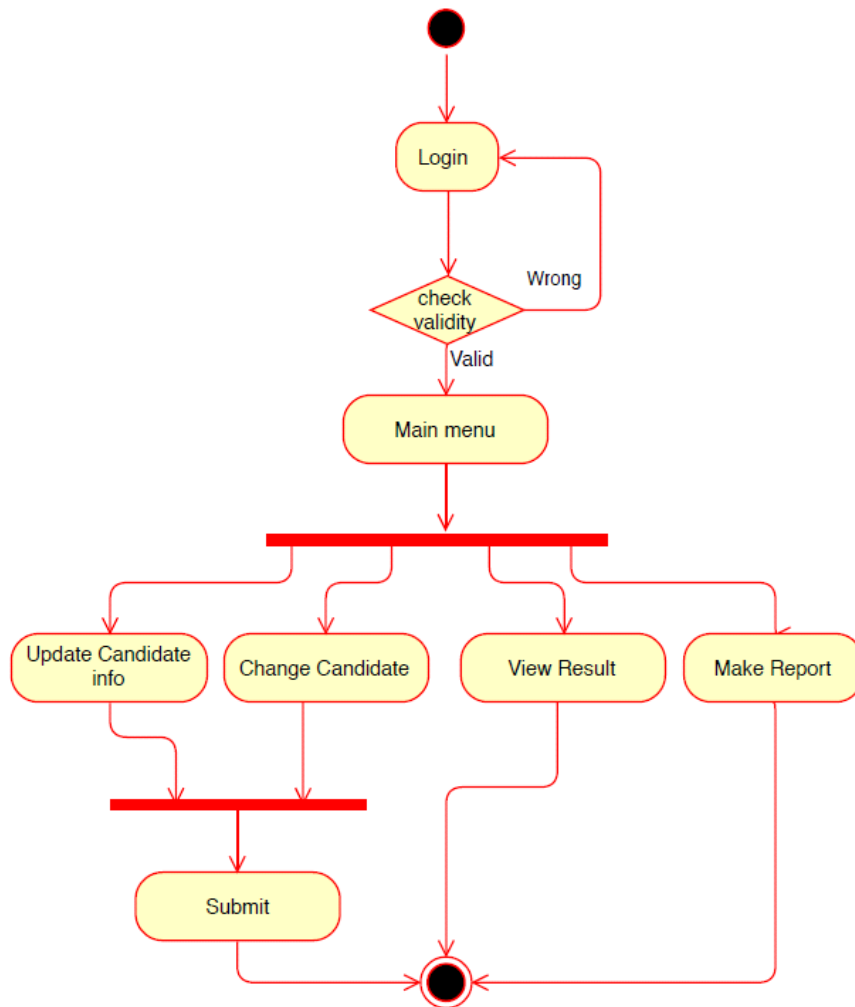
VOTER

+ V_ID : int
+ V_Password: int
+ V_Name : char
+ V_DOB: date

+ castVote ( ) : boolean
+ viewCandidate ( ) : char
+ viewResult ( ) : char

CAST VOTE

+ Cand_ID : int
+ Voter_ID : int
+ Slc_Cand : char
+ TimeStamp : time

+ submitVote (Slc_Cand) : boolean
+ cancelVote ( ) : boolean
+ retrvVote ( ) : return

CANDIDATE

+ Cand_ID : int
+ Cand_Name : int
+ Party_Symbol : symbol
+ Constituency: char

+ submitNomination (Cand_ID,Constituency) : return
+ cancelNomination (Cand_ID,Constituency) : return

1   1   <<cast>>   1   1   <<has>>

Voter Profile

+ V_ID : int
+ V_Password : int
+ V_Name : char
+ V_DOB : time

+ castVote ( ) : boolean
+ viewCandidate ( ) : char
+ viewResult ( ) : char

has

0..1   Saves Result   Updates   1..*   <<Add, Update,Delete>>   1

ADMIN

+ Voter_ID : int
+ Vote_Num : int
+Voter_Info: char

+ submitReport ( ) : boolean
+ updateInfo (Voter_ID) : return

0..1   <<Publish>>   1..*

Database

+ Voter_ID : int
+ Cand_ID : int
+ Voter_Info : char
+ Cand_Info: char
+ Party_Symbol: symbol
+ TimeStamp: time

+ storeVoter ( ) : char
+ storeCandidate ( ) : char

Application Server

+ Voter_ID : int
+ Candidate_ID : int
+ TimeStamp: time
+ Votes_Count : int

+ sendReport ( ) : char
+ contVotes ( ) : int
+ sendResult ( ) : char

Result

+ Candidate_ID : int
+ Party_Symbol : symbol
+ VotesCount : int

+ getVotes ( ) : return
+ Display (cand_id,p_symbol) : return

1   updates   1   1..*   <<Get Votes Count>>   0..1

3. Activity Diagram: An activity diagram represents all main activities of the entire project.

- **User diagram:**

User Diagram

registration

Login

valid | check validity | Wrong

Display candidates list

Select candidate

Submit

Change Candidate

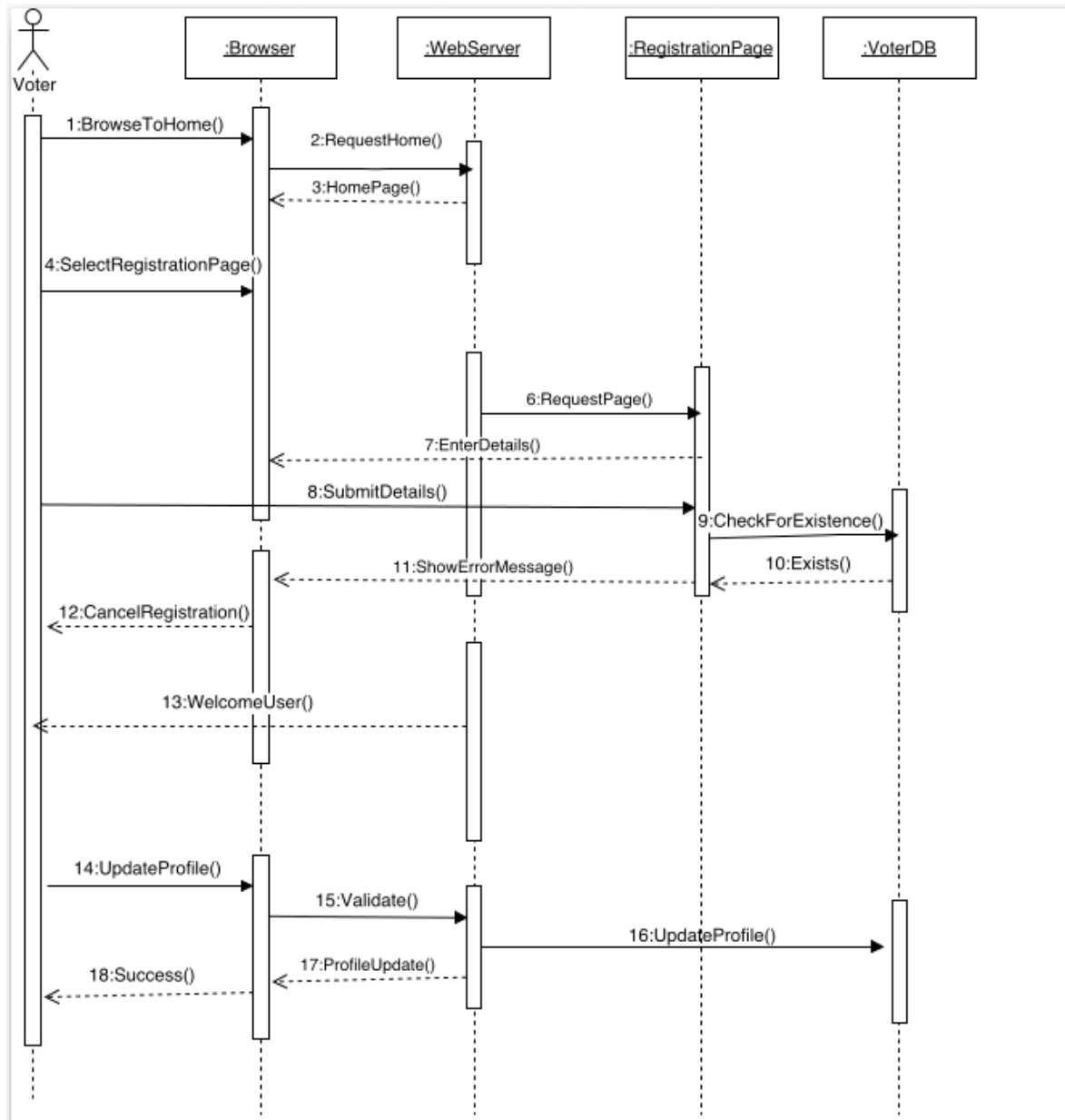Update voter Info

Resubmit

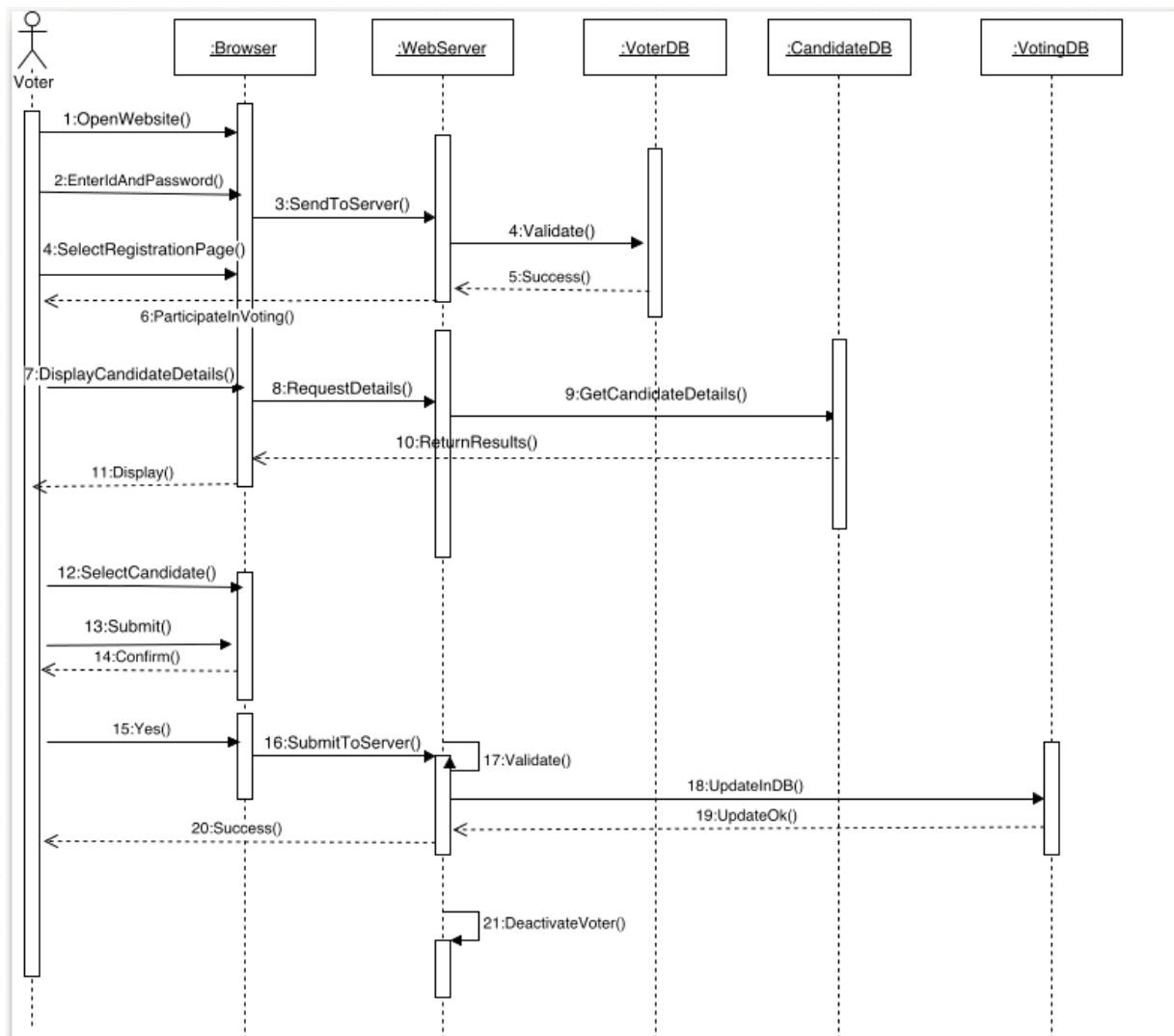- **Admin diagram:**

Admin Diagram

4. **Sequence Diagram: The diagram shows the interaction between objects in a system and also specify in which way those interactions happen.**

- **Voter registration: This diagram depicts how the voter registers and creates his profile.**

- **Voter provision: This diagram depicts how the voter logs into his account and casts his vote**

- **Vote Counting: This diagram depicts how the counting process takes place for declaring the results**