

Voting System

(Commandline Interactive system)

Enter your role / are you a **Voter \ Election commissioner?** ---> (Take inputs)

Voter

Ask questions for voting

1. Enter your Voter Id ---
 - a. **Check if this voter has already voted ?** (Check into voting details table which has voting id as primary key)
 - i. **If already Voted** ---> Then display msg saying you have already voted , re-voting is not allowed and end programm.
 - b. **If voter Id is not available** in voting details table check if this is valid\existing voter in Voter Table accordingly display msg saying "Invalid Voting Id"
 - c. **If all conditions are valid then give the list of name** of nominees(to whom need to work)
2. Please **select one of below Nominee**(To whom you want to vote)-> Fetch this list of names from Nominee table
 - a. Ramraj
 - b. Shamraj
 - c. Bharati
3. On voter input add entry in **Voting Details table** ---> and display msg "Thanks for your valuable vote"

Election Commissioner

1. Add Voter

- a. How many voter you want to add → Continue below loop this many times
 - i. Enter Voter ID
 1. Check if this voter is already exist in database
 2. Voter Id
 - a. Should be 6 digit unique number
 - ii. Enter Voter Name
 - iii. Enter Voter location
 - iv. Enter Voter DOB
 1. Check on the basis of DOB if he\she is valid voter(above 18yrs)
-> if not valid voter decline request
- b. Add each voter in **Voter Table**

2. Update Voter

- a. Enter Voter ID
 - i. Check if this voter is already exist in database
 - ii. Voter Id
 1. Should be 6 digit unique number
- b. Enter Voter Name
- c. Enter Voter location
- d. Enter Voter DOB
 - i. Check on the basis of DOB if he\she is valid voter(above 18yrs)

3. Add Nominee

- a. How many Nominee you want to add → Continue below loop this many times
 - i. Enter Voter ID
 1. Check if this voter is already exist in database
 2. Voter Id
 - a. Should be 6 digit unique number
 - ii. Enter Nominee name
 - iii. Enter Nominee Location
 - iv. Enter Nominee DOB if he/she is valid voter(above 28yrs)
- b. Add each Nominee in **Nominee Table**

4. Update Nominee Details

- a. Enter Nominee Voter Id
 - i. Check Nominee exist → Acknowledge accordingly
- b. Enter Updated Name
- c. Enter Updated Location

5. See the Result

- a. On the basis of voting details you can show count of total voter voted
- b. Count of votes for each Nominee
- c. Who is the winner on current situation

6. Download Result

- a. Create a csv file having columns Voter Name,Nominee Name(To whom he has voted) and Voting time.

of Required tables

1. **Voter** [Voter Id, Voter Name, Voter Location, DOB]
2. **Nominee**[Voter Id, Nominee Name, Nominee Location, DOB]
3. **Voting** Details[Voter Id, Nominee Voter Id, Voting time]

#Guidelines

1. Use functional programming
2. Keep minimum database calls
3. Acknowledge with interactive message