**Stored Procedures Pseudocode**

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Description automatically generatedParse voter\_data\_feed – Procedure**

**Voting once** – checks to make sure there is only 1 vote cast per voter in each election. If the person has already voted more than once, flag the voter\_id for suspicious behavior.

**Voter information matches in system** – check to see that the information submitted by the voter matches the information stored within the system to ensure that the person voting is the actual person. The information includes voter\_id, voter\_name, and district\_id

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**Checking device\_id** – the device\_id is logged when the use submits a vote, and there is a light check to see if the voter\_id is linked to a social\_account that has used that device in their logs before

**Processing measures votes** – There will be two fields in which the measure vote will passed, which are 2 arrays in measures and measures\_intensity. Each index of the array with respectively corresponds to the other, with the measures array containing the measures to be voted on and measures\_intensity array containing if the voter has either approved or rejected the measure.

**Process candidate votes –** This field will contain an array of names that the voter has voted for. If their name appears, then it means that is the candidate the person votes for. But the procedure needs to check that those candidates are actual candidates in the system for the designated election. The procedure also needs to check that each candidate is running for a different position in the specific election ballot.

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**Check number of voters in district - Procedure**

* This procedure will check to make sure that the amount of voter ballots submitted per election.
  + Using the information from the elections table, I can count the amount of submitted ballots and cross check the information with the number of registered voters in the district at the time of the election.
  + If there are some discrepancies with the number of total ballots regardless if it was accepted, flag the election for further review from a person

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Description automatically generated

**Check that person addresses are still within geographical boundaries – Procedure**

* This procedure will ensure that each voter’s district matches actual district geographical boundaries. So, whenever an update with geographical boundaries is made, it automatically parses through voter registered addresses to ensure that they are still in the correct district. If they are not, update the district to match the proper district.