| Name | Run Open Party Listing Voting |
| --- | --- |
| ID | UseCase\_Team9\_A2 |
| Description | * This is where citizens vote for their preferred candidate of their choice. The candidates may belong to a specific party or independent. |
| Actor(s) | * Election official |
| Preconditions | * The CVS file specifies type of voting. I.e. OPL * Other condition are met for the file to be processed :   + Type of Vote   + Number of candidates   + Name of the candidate, part name ( Initial )   + Number of seats available   + Number of ballots * The above condition should be separated by newline * Assumption : No error in the ballots   + Such that, Only a single 1 will be placed in the position of the given candidate |
| Basic flow | * accepts CSV file as an input and checks if all requirements. ( Requirement is listed in pre-condition) * Program will identify candidates and count individual vote plus party vote * Also, the system will calculate the number of seats available for each party.   + Identifying number of seats per each party     - Largest reminder formula ( Quota )       * quote = total number of votes in a district / total number of seats         + 1st allocation will be Floor(quote) ->         + 2nd allocation -> distribute remaining seats to the party that has largest reminder * An audit and report file are generated. Both files will be for READ ONLY * System will display who won among the candidates |
| Alternate flow | * Case 1 : Candidates with the highest votes wins * Case 2 : Tie ?   + Refer to UseCase\_Team9\_L2 |
| Exception flows | * Invalid input file -> prompt the user to select or enter file name |
| Postconditions | * We will have a winner after processing the input file. * There will be an audit and report files generated respectively to show calculation was done   + These files will be available for read only. |