

# Project Analysis

by Shawn Eghosa Rober, Jack van Hecke

## Project Description

**Title:** Hannø

**Description:**

With Hannø, we want to be able to host large-scale mock elections for communities. Administrators can add areas, ballots, parties, and voters; choose the exact moments that elections open and close; decide the election method; and view the votes afterwards. Voters can cast their ballots and vote on one or multiple candidats and/or parties.



(TODO: Conceptual/Logical, Wireframes)

## User Stories

As a voter  
I'm able to submit my ballot  
So that I can cast my vote for my party(s)/candidate(s) of choice

Name	
list of parties	<input type="radio"/> name
	<input type="radio"/> name
	<input checked="" type="radio"/> name
	<input type="radio"/> name
<div>submit</div>	

**Acceptance Criteria:**

- I can select the candidates or parties listed on the ballot.
- The ballot should show all available candidates and parties for the election I'm voting in
- I can't submit the ballot if it's incomplete (like voting for too many candidates or parties when there's a limit.)
- After submitting my ballot, I should see a confirmation message that my vote was submitted successfully.
- My vote is stored securely and linked to my account for that election.

---

As an admin

I'm able to create parties

So that I can make a complete ballot.

The diagram shows a wireframe for an admin interface. The main container is a rectangle divided into three horizontal sections. The top section is labeled 'Admin: (name)'. The middle section is labeled 'list of parties' and contains four radio buttons, each followed by the text 'name'. Below these is a link '+ add party - edit'. The bottom section contains a 'submit' button. An arrow points from the '+ add party' link to a modal form on the right. The modal form has three input fields labeled 'Name:', 'Type:', and 'other:'. At the bottom of the modal are two buttons: 'Apply' and 'Delete'.

### Acceptance Criteria:

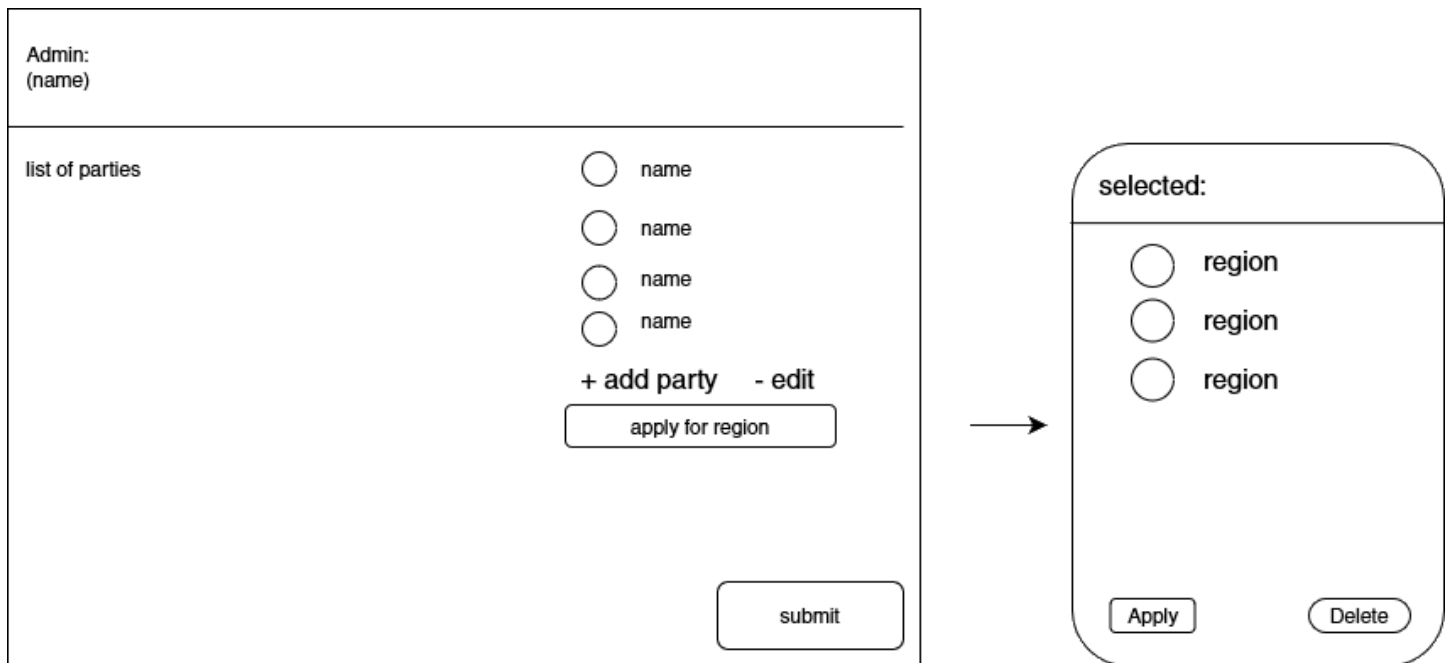
- I can create a new party by adding its name, type (like municipal or national), and any other necessary info.
- The system will make sure I've filled in all the required fields before letting me save the new party.
- Once I've created a party, it will show up on the list of available parties for the election.
- I should be able to edit or delete a party as long as it hasn't been added to a live ballot.
- I won't be able to create a duplicate party (same name, type and region).

---

As an admin

I'm able to apply areas

So that I can make separate ballots per region



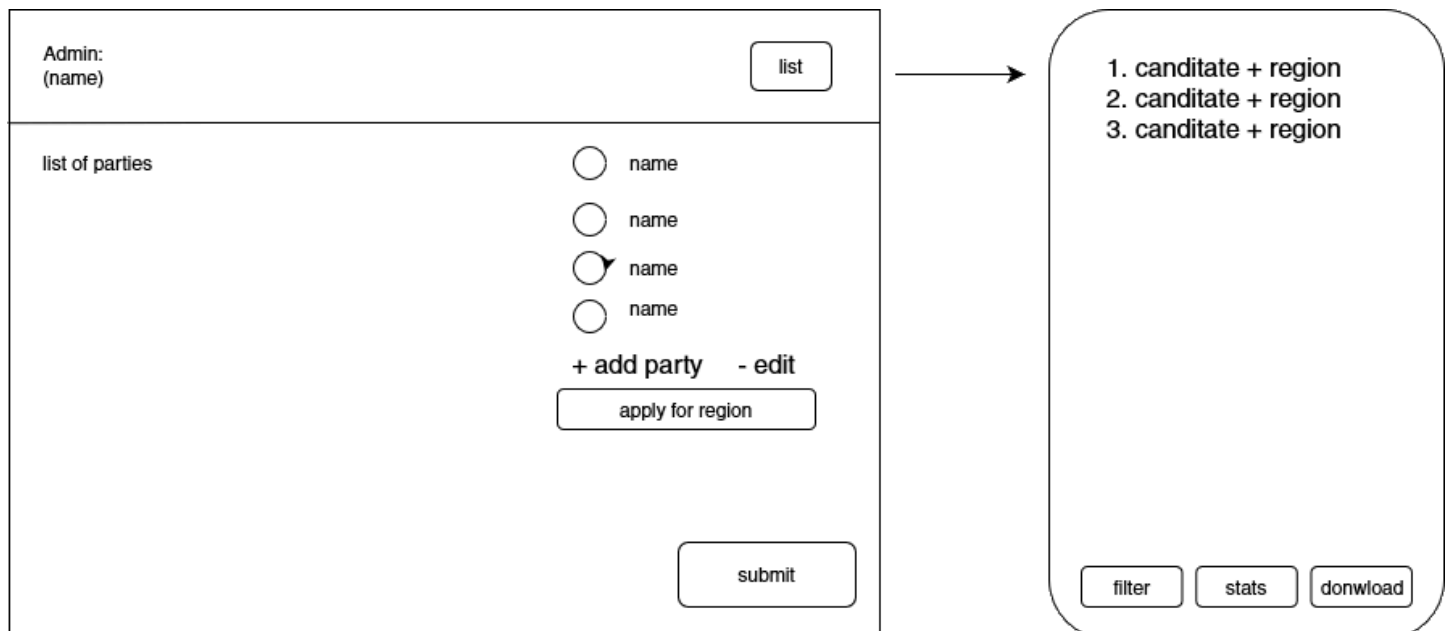
### Acceptance Criteria:

- I can assign a specific ballot to each area based on the region.
- The system will check to make sure each area name is unique within its type and region.
- I should be able to edit or delete an area as long as it isn't part of a live election.
- I can add new geographic areas (like regions) by entering their names.

As an admin

I'm able to get a list of voters and parties

So that I can calculate certain statistics about any given election



### Acceptance Criteria:

- I can pull up a list of all voters registered for an election, and I should be able to filter this list by region.
- I can also see a list of all the parties and candidates taking part in the election.
- The system should show me key numbers, like how many voters and parties are part of a particular election.

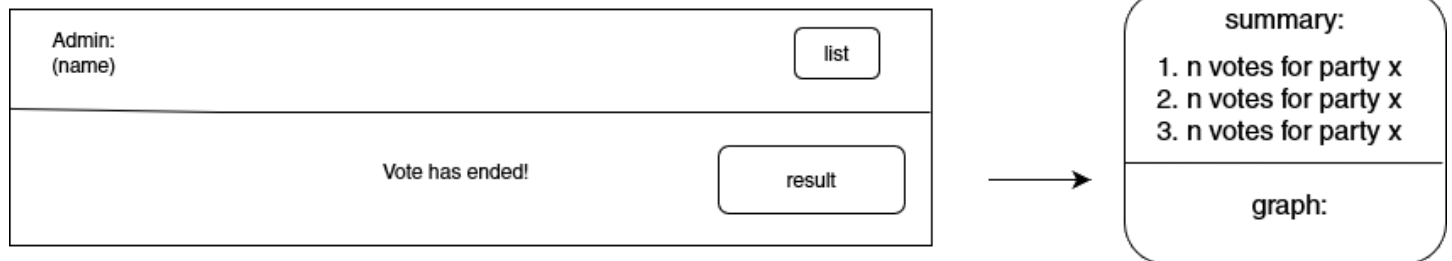
- I should be able to download this data (csv file or other format)
- The system should make sure I'm only seeing voters and parties who are actually registered for the specific election.

---

As an admin

I'm able to get the list of votes

So that I can announce the results of an election



### Acceptance Criteria:

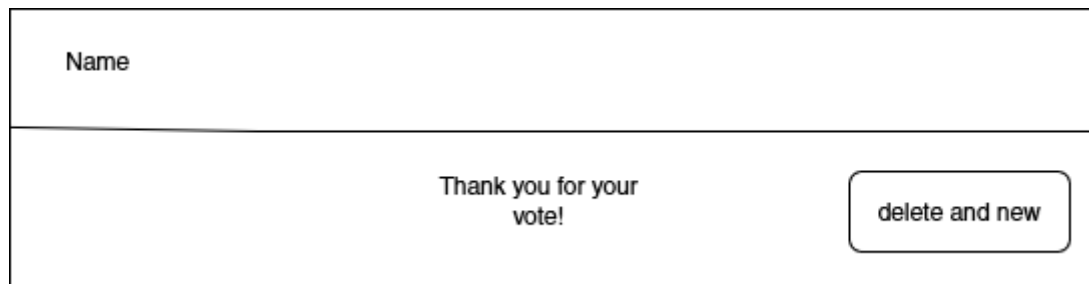
- I can see the list of votes as soon as the election has closed.
- The system should show the total votes each party or candidate received, in real-time after the election closes.
- I should see the election results in a clear format (like percentages or charts).
- The system will only show the votes after the election ends—nothing should be visible before then.

---

As a voter

I'm able to change my ballot

So that I can place a better vote



### Acceptance Criteria:

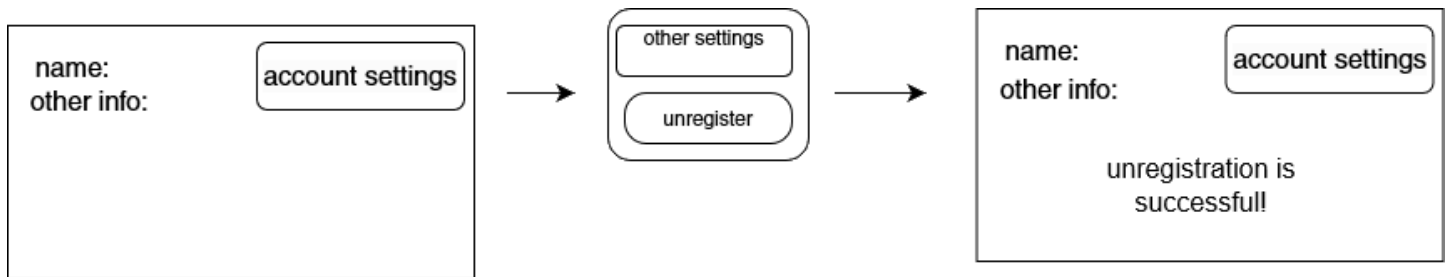
- When I submit a new ballot, it replaces my previous vote.
- I'll get a confirmation message after updating my vote.
- I can change my ballot as long as the election is still open.
- There may be a limit on how many times I can change my ballot. (Including not at all)
- My updated vote is still secure and private.

---

As a voter

I'm able to unregister

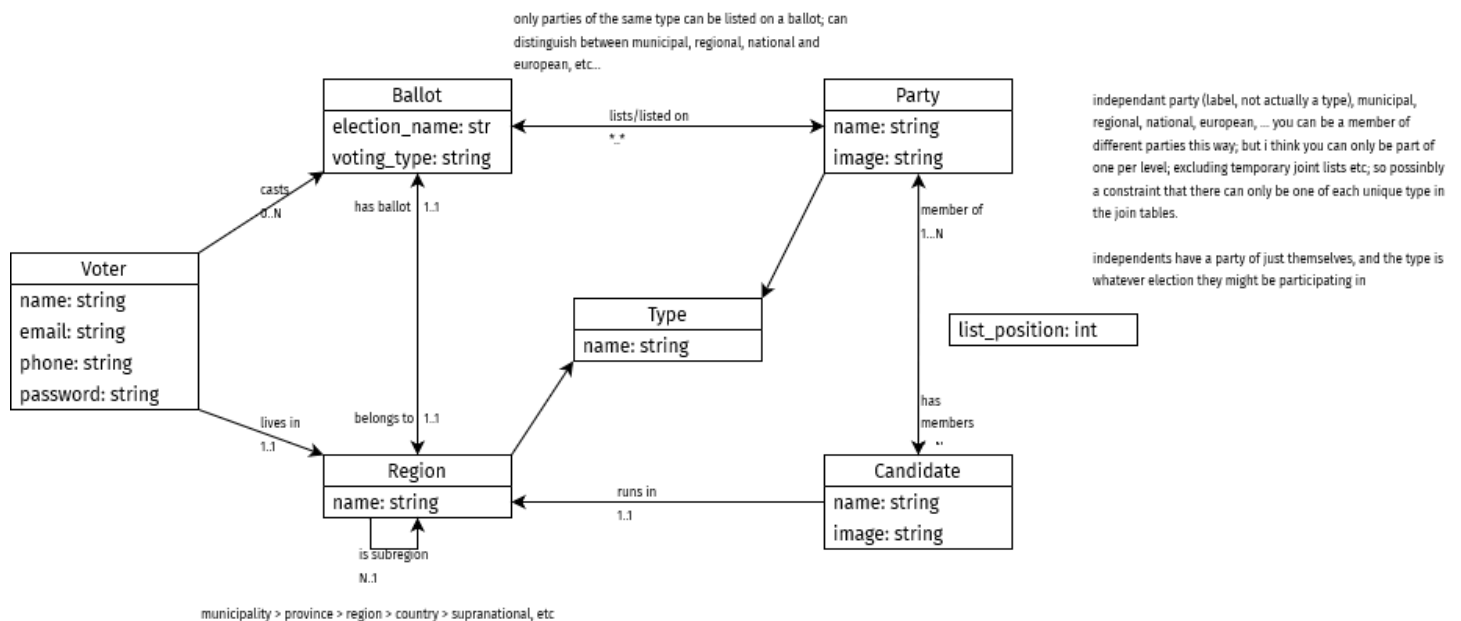
So that I can abstain from an election



### Acceptance Criteria:

- I can unregister from the election through my account settings, but only before the election ends.
- Once I unregister, I won't be able to vote or get reminders about the election.
- I'll get a confirmation message when my "unregistration" is successful.
- The system will make sure I'm no longer on the list of voters for that election.

## Domain Model



(Text in the diagram that might not be legible is written here)

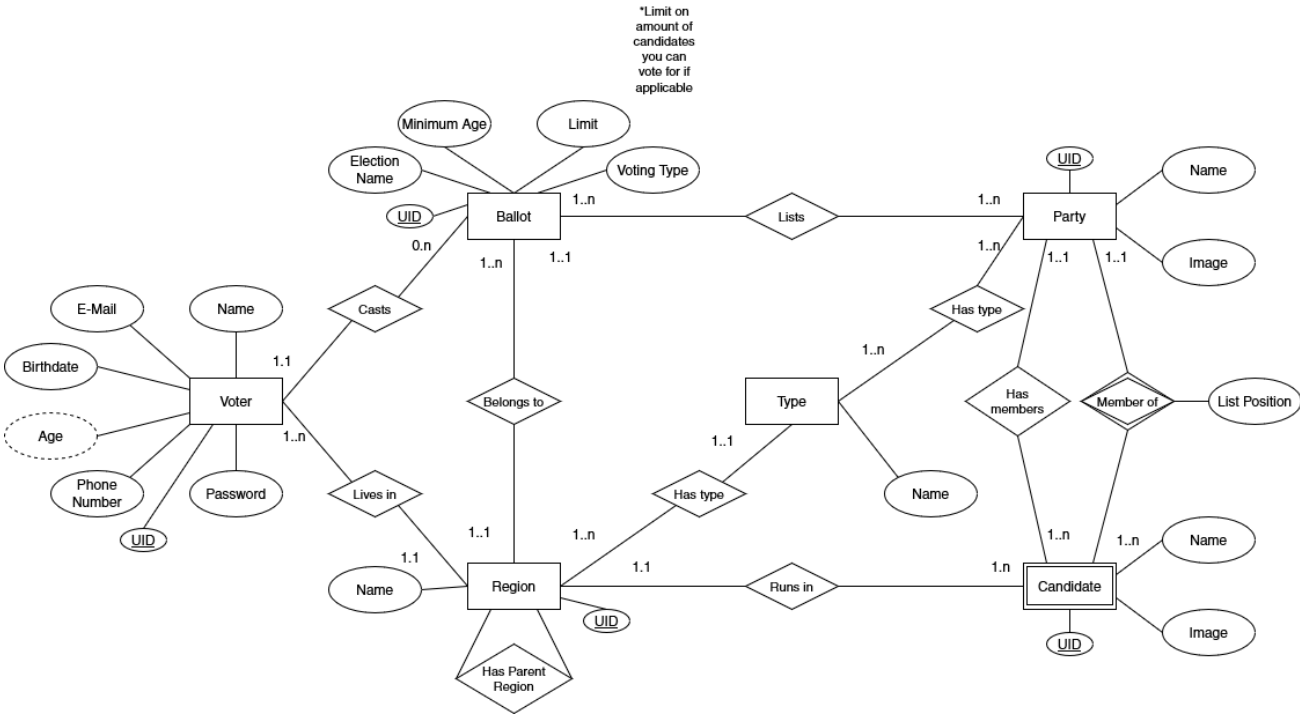
municipality > province > region > country > supranational, etc

only parties of the same type can be listed on a ballot; can distinguish between municipal, regional, national and european, etc...

independent party (label, not actually a type), municipal, regional, national, european, ... you can be a member of different parties this way; but i think you can only be part of one per level; excluding temporary joint lists etc; so possibly a constraint that there can only be one of each unique type in the join tables.

independents have a party of just themselves, and the type is whatever election they might be participating in

# Conceptual Database Model



# Logical Database Model

