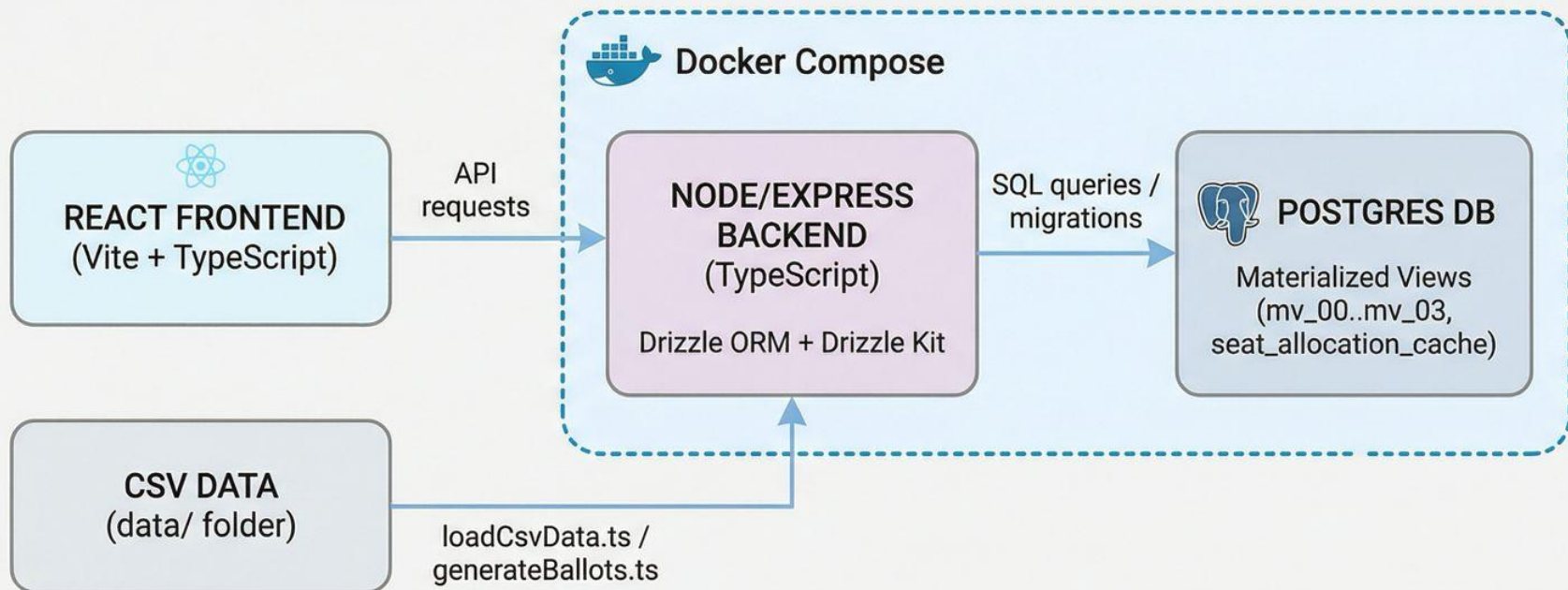


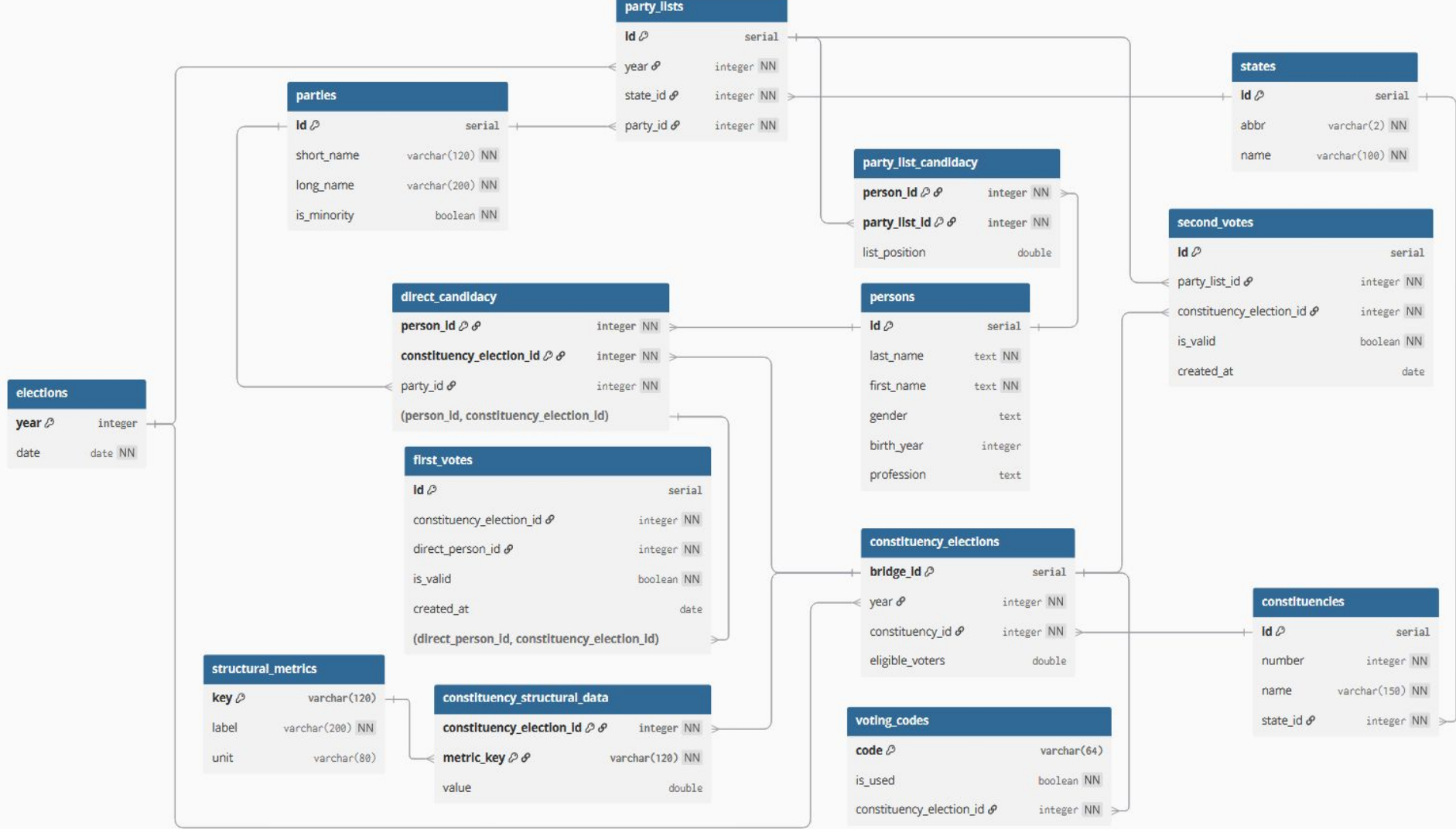
Project Presentation

Nikolai Khalatiani
Oskar Kraak

PROJECT ARCHITECTURE

LOCAL DEVELOPMENT ENVIRONMENT





Demo

Thank you

Sources:

- https://www.bundeswahlleiterin.de/en/dam/jcr/f49a47a1-735b-4e9b-b4e1-4c73cad2292e/btw25_kerg2.csv
- https://bundeswahlleiterin.de/dam/jcr/181f9e38-38db-4f64-991c-8141dfa0f2cb/btw2025_strukturdaten.csv

1. Find winner for each constituency (first votes)
2. Filter parties by 5% threshold, 3 direct mandates, or minority status
3. Independent candidates and candidates from non-qualified parties get seats directly
4. Federal distribution: Sainte-Laguë at federal level
 - Allocate 630 seats minus non-qualified party seats
 - Only qualified parties participate
5. State distribution: Sainte-Laguë per party at state level
 - Each party's federal seats distributed across states by state list votes
6. Second-vote coverage:
 - Rank direct candidates by first-vote percentage within each state
 - Only top candidates get seats, up to state allocation limit
 - Prevents overhang mandates
7. Assign remaining seats to list candidates (excluding seated direct candidates)

Sainte-Laguë:

1. Generate a list of divisors (1, 3, 5, ...)
2. Divide each parties votes by all the divisors
3. Choose the party with the highest quotient until all seats are filled