*„Pflichenheft“*

**Goals of the projects:**

Must be fullfilled:

* Voting procedure
* Election analysis and comparison
  + Distribution of seats in parliament
  + “Direktmandate”
  + Correct temporary computations of “Überhang” and “Ausgleichsmandate”
* Structured output of the election results and comparisons
* Non functional requirements: privacy, security, performance

Should be fulfilled:

* Election analysis and comparison
  + Members of parliament
  + “Überhangmandate”
  + “Ausgleichsmandate”
* Pleasant displaying of election results and comparisons
* Non functional requirements: scalability, robustness, safety

Can be fulfilled:

* Election analysis and comparison
  + Possible collaborations of parties
* Interactive visualization of election results and comparisons
* eastereggs

**Not** going to be implemented:

* physical infrastructure and election entity
* comparison of different election systems
* survey execution
* extrapolation of end result
* two way authentification

**Technical Realization Aspects**

DBMS: Postgress (maybe upgrade to HyPer for performance reasons. Both systems are exchangeable)

Frontend for Voting Procedure

Frontend for election analysis and comparison

Technology used for Frontends: Angular JS and/or .NET

**Data modell**

See Attachement 1

**Frontend Mockup**

See Attachement 2

**Glossar**

DBMS: Data Base Management System

Scalability: handling of many users

Robustness: no crashes during runtime

Security: protected against manipulations

Safety: safe against data loss

Privacy: no relation of voters and single votes in this context

Eastereggs: funny applications that can be activated by special interactions