**„Lastenheft“**

Non functional requirements:

-security:   
exclusion of manipulations: voting is possible only once. Restricted access rights.

-robustness:  
service is available during 99.9% of the election time. After a crash of the sytem, the single votes are still archived.

- scalable:  
100 Mio displays of analysis possible  
evaluation of 150 Mio inputs during election time with peak up to 10 Mio per 5 minutes

- performance  
Voting time <= 2 minutes  
analysis <= 10 minutes  
evaluation output <= 30 seconds

-data security:  
archived votes cannot be related to single voters

User Interface I (voting):

Voting is permitted only once per voter

Order of the single votes (“Erststimme”, “Zweitstimme”) is not inherent

Neutral Displaying of candidates and parties

Single fields with distinct borders for every electable candidate/party.

User Interface II (evaluation)

Displaying: sum of “Erststimmen” and invalid votes (forced by law)  
Displaying: sum of “Zweitstimmen” and invalid votes (forced by law)

Offering access to functional requirements specified in “Analysis and Evaluation”.

Functional requirements

Analysis & Evaluation:

Compute and display seat distribution in “Bundestag” with respect to “Direktmandat”, “Überhangmandat“ and “Ausgleichsmandat”. Show the share of “Direktmandat”, “Überhangmandat“ and “Ausgleichsmandat”.

Compare election results: state vs. state, region vs. region.

Compare election results to previous elections for Germany, the states and the regions.

Compute and display “Direktmandate” for parties in the regions, the states and Germany.

Voting:

“Erststimme” + “Zweitstimme”

Possibility to give an invalid vote

All votes are archived with the given “Erststimme” and “Zweitstimme”

Voting is possible for once per election for every voter

Acceptance criteria

Requirements named and specified above that are underlined were identified as acceptance criteria