

Boundary Value Analysis (BVA)

Boundary Value Analysis focuses on testing input values at the edges of equivalence classes because defects often occur at these boundaries.

Where it is used:

- Numeric or text fields with length or value limits
- Password fields
- Age, amount, or threshold values

Practical Example:

Website: DemoQA.com — Automation Practice Form

Field: Password (min 8, max 15 characters)

Test Values for Boundary Analysis:

Test	Input	Expected Result
Below Minimum	7 characters	Rejected, error message shown
Minimum	8 characters	Accepted
Minimum + 1	9 characters	Accepted
Maximum – 1	14 characters	Accepted
Maximum	15 characters	Accepted
Maximum + 1	16 characters	Rejected, error message shown