

# Txn UX

## Executive summary

UI projects state; show status+recovery; BE enforces idem+authz+audit. Stack unspecified. 1

## Principles

Fmt: def|why|FE|BE|a11y|sec|pit|KPI|ex 1 Feedback state|dup ↓|pend→rcpt|idem+status|live|redact|spin|ab/dup|S1 2 Prevent guard|integrity|inline|val+code|textErr|generic|disable|err ↓|S2 3 Recover undo|trust|draft|comp|focus|stepUp|noExit|tickets ↓|S3 4 Consistent stds|predict|compLib|ver|focus|authz|1off|time ↓|S4 5 Conflicts detect|correct|merge|ver|announce|norepl|overwrite|409 ↓|S5 6 Commit review|fraud ↓|rev/rcpt|atomic|readback|CSRF|surprise|done ↑|S6 7 Trace audit|disp ↓|history|log|readable|least|lost|MTTR ↓|S7 8 Latency perc|drop ↓|prog+opt\*|async|motion ↓|rateLim|fakeDone|p95 ↓|S8 9 Auth usable|cont|stepUp|MFA|noHost|TLS|cap|success ↑|S9 10 Help inCtx|errors ↓|remedy|typed|cons|noInt|codeOnly|self ↑|S10

## Trade-offs

Pair	Trade-off
Opt vs pess CC	retry/merge ↔ block/deadlock
Sync vs async fb	stall ↔ eventual confusion
Modal vs inline confirm	disrupt ↔ missed warning

## Delivery and testing

Sprints: state→design→API(idem/ver/err)→a11y→sec(ASVS/CSRF/authz/log)→perf+obs. Tests: usability; WCAG; unit/contract/e2e; load; SAST/DAST.

## Diagrams

```
stateDiagram-v2
[*]-->d-->p-->ok
d-->err-->d
p-->err-->p
```

[Review] \$\_\_ [Back][OK] Rcpt# S1-10: live;  
400{c,f};cancel(id);compLib;ver409;commit(d);audit(e);jobPoll;MFAstep;mapErr.

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## 1 10 Usability Heuristics for User Interface Design

[https://www.nngroup.com/articles/ten-usability-heuristics/?utm\\_source=chatgpt.com](https://www.nngroup.com/articles/ten-usability-heuristics/?utm_source=chatgpt.com)