

week 2 lesson 5 task 5 solutions

1 Like counter \rightarrow AP

why:

- temporary inconsistency is acceptable
- showing something is better than blocking users
- likes can be reconciled later

availability \rightarrow strict correctness

2 Bank Balance \rightarrow CP

why:

- incorrect balance = catastrophic
- cannot double spend
- better to block transaction than be wrong

correctness \rightarrow availability

3 Online shopping cart \rightarrow CP (mostly)

why:

- inventory must not go negative
- over-selling is dangerous
- checkout must be consistent

- shopping cart \rightarrow AP is okay
- checkout/payment \rightarrow CP required

4 Messaging app \rightarrow AP

- messages must not be lost
- slight delay is acceptable
- system must work offline / unstable networks

\rightarrow High availability with eventual consistency.