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# Lessons from your concurrent-index

## Placeholder

# **This deck arrives with your submissions**

It is built from the lesson slides in your concurrent-index writeups — collected after the deadline, triaged, and presented back to the class.

Until then it is deliberately empty: the content is the class's own work, and that does not exist yet.

# Choose the concurrency design

10 min

- Two indexes pass linearizability tests. A uses one mutex; B uses 16 shard locks chosen by  $\text{hash}(\text{key}) \% 16$ .
- Workload: 8 threads, 90% reads, 10% writes; half the operations hit the same 10 keys. Choose A or B and name its expected bottleneck.
- Name one workload change that reverses your choice and one measurement that settles disagreement. Compare with another pair.
- Deliverable: choice, bottleneck, reversal condition, and measurement.