

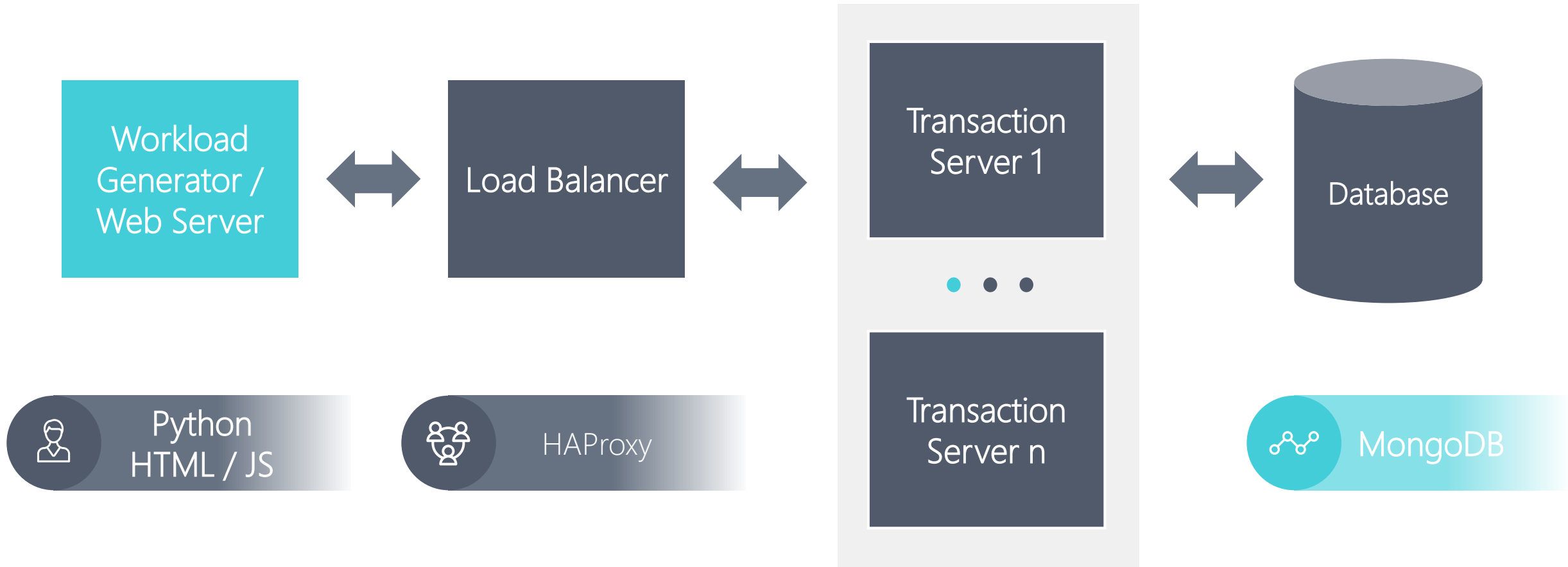


End To End Day Trading System

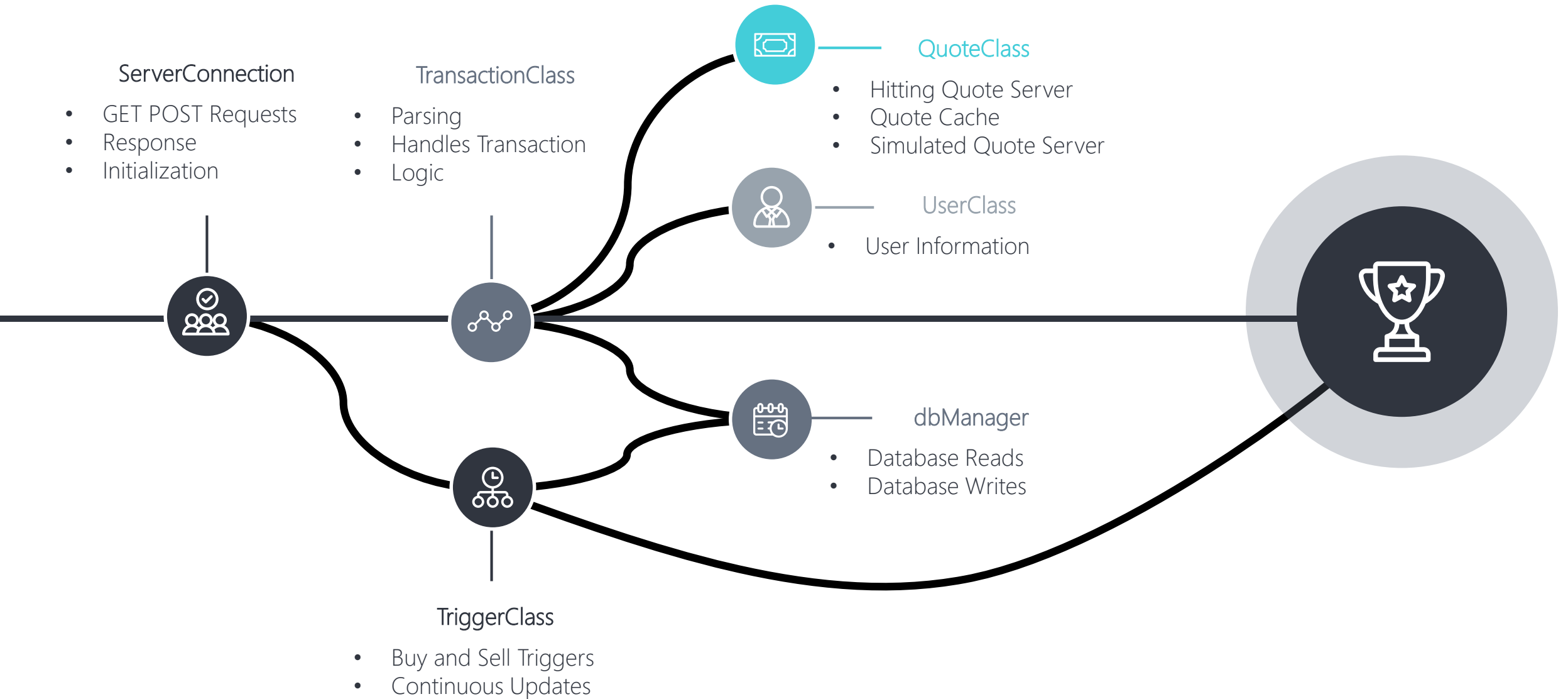
Foodie Squad

Adam Leung | David Mah

System Architecture



Design Architecture for Transaction Server



Transaction Server



HTTP

From Sockets



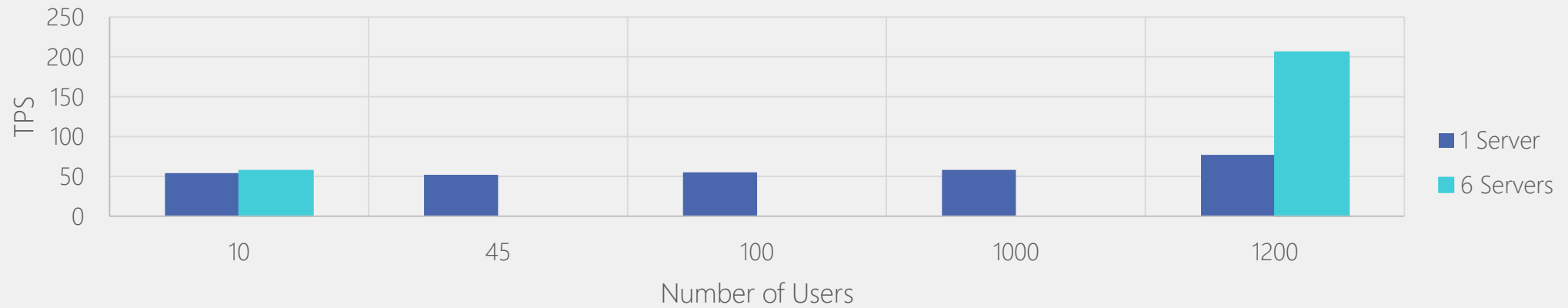
Python

From C++

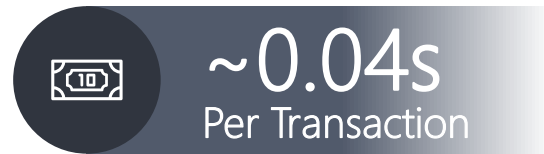


Independent

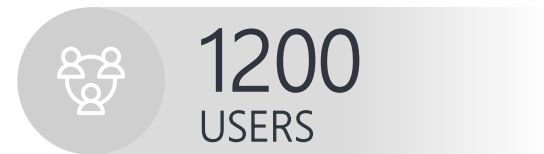
From Dependent



Performance Metrics



Average across 100 transactions with varying commands



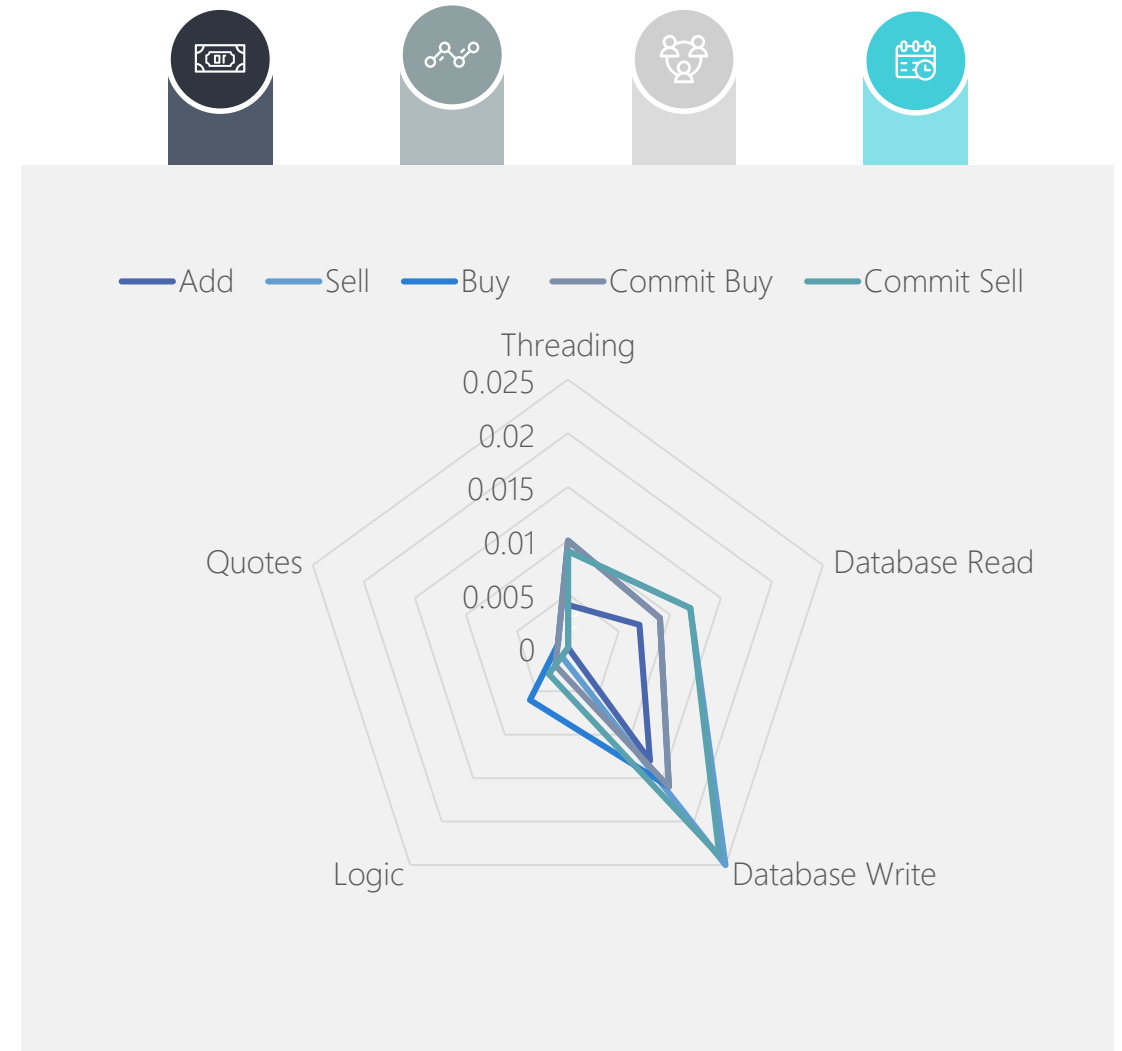
1200 simulated users being generated from 1 server.



Average 55% CPU usage across 6 transaction servers.



Still room for improvement




Future Improvements and Remarks



Improvements

- Increase Resources
- Separation
- Database Indexing



Remarks

- Research
- Design
- Docker



Thank You

The background is a dark blue field filled with out-of-focus light spots (bokeh) in shades of purple, teal, and yellow. Overlaid on this are three large, semi-transparent circles in light blue, teal, and greyish-blue, which overlap each other in the center. The word "Questions?" is written in white, bold, sans-serif font in the center of the overlapping circles.

Questions?