Caching in the .NET Stack: Inside-Out

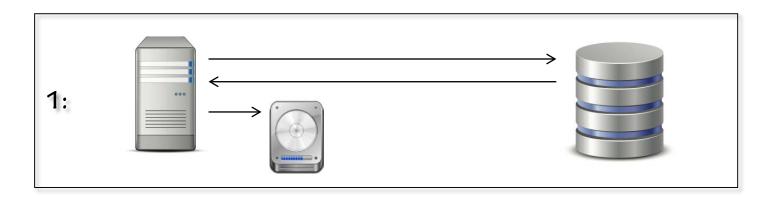
Elton Stoneman elton@sixeyed.com



Benefits of Caching

Performance

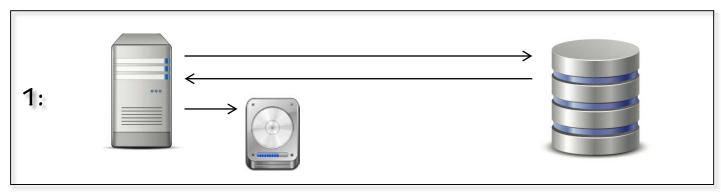
- Reduced response time
- Reduced infrastructure usage
 - CPU time, database utilisation, network bandwidth,



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Aims of the Course

Caching Techniques

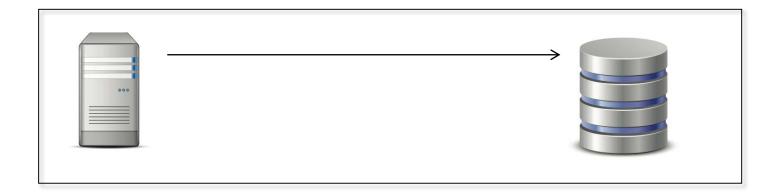
- Internal caching with AOP
 - Local, remote, distributed cache stores
- External caching on the client
- Invalidation and expiration

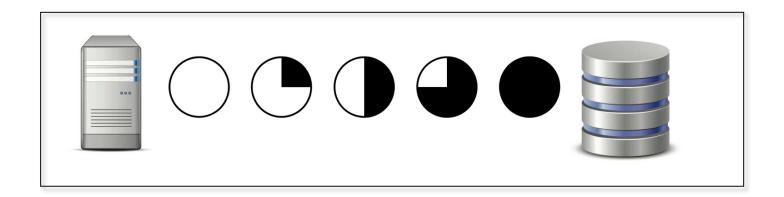
Technologies

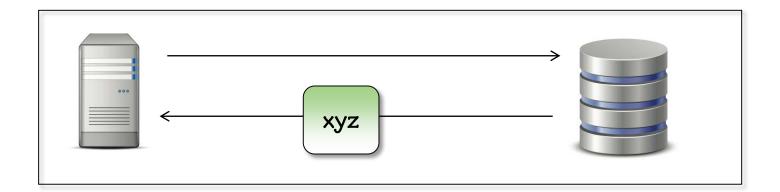
- MemoryCache, NCache Express, AppFabric Caching
- memcacheD, Azure Table Storage, disk
- HTTP

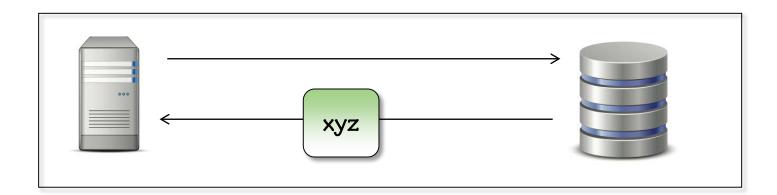
Decision criteria

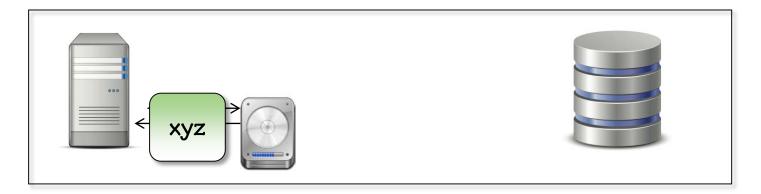
Longevity, breadth, cost and size





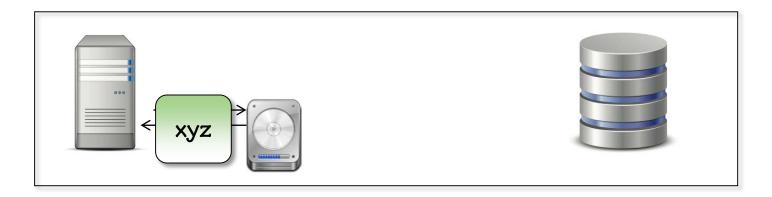






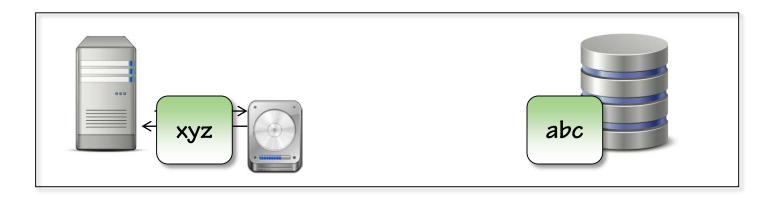
The Cost of Caching

Staleness



The Cost of Caching

Staleness

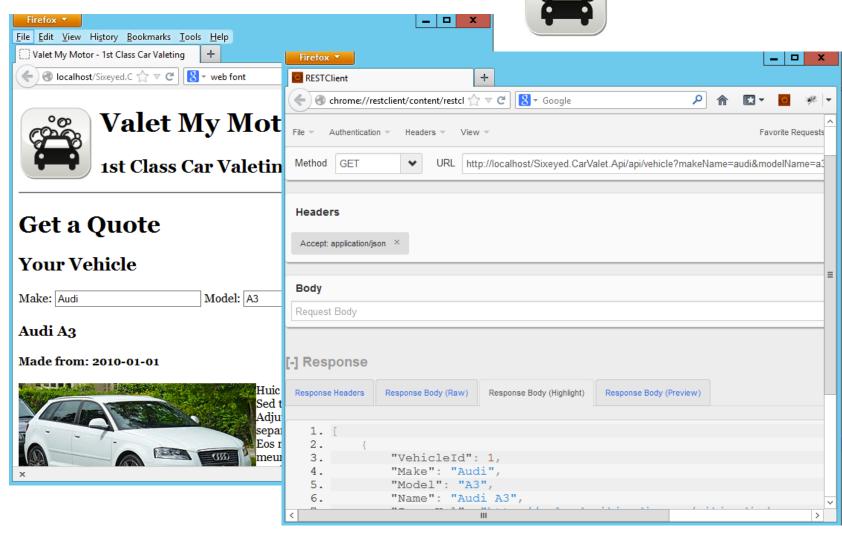


The Complexity

Benefit Cost Staleness Speed Check for staleness Efficiency Refresh

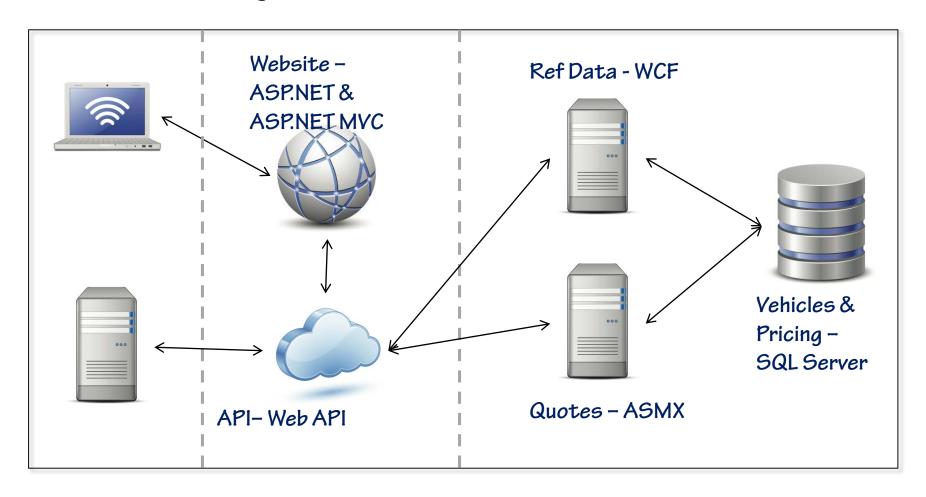
Course Structure

The Car Valeting Solution



Course Structure

The Car Valeting Solution



Course Structure

The Car Valeting Solution

