Material

1. What is a distributed cache
   1. Link - <https://www.youtube.com/watch?v=U3RkDLtS7uY>
   2. Abstract - a simple intro to caches and distributed caches
   3. Link - <https://hazelcast.com/glossary/distributed-cache/>
   4. Abstract - An article about distributed caching implemented in common ways with cons and pros for each way.
2. Cache Invalidation
   1. Link - <https://en.wikipedia.org/wiki/Cache_invalidation>
   2. Abstract - wikipedia article about cache invalidation strategies and their influence on performance.
3. Cache vs Buffer
   1. Link - <https://www.geeksforgeeks.org/difference-between-buffering-and-caching-in-os/>
   2. Abstract - know the difference between a cache and a buffer
4. Cache Placement
   1. Link - <https://www.scylladb.com/2017/07/31/database-caches-not-good/>
   2. Abstract - why you should think twice before adding a cache in front of a DB.
   3. Link - <https://stackoverflow.com/questions/41510722/caching-on-frontend-or-on-backend>
   4. Abstract - stackoverflow post on caching in the frontend vs in the backend.

Exercise

1. Present an example of a system or process you developed on the job, where you had to implement a cache or think a cache would be beneficial. Explain why.
2. What are the problems of implementing a distributed cache?
3. Explain 1 caching invalidation strategy.