Shopping Lists on the Cloud

Large Scale Distributed Systems

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1 Architecture

For our project, we have carefully selected an architectural design that incorporates a middle server to enhance the performance, reliability, and scalability of our system.

This middle server plays a pivotal role as it serves as a load balancer and a communication hub. Clients connect to this middle server, which then orchestrates the distribution of tasks and data across the network.

Our system is designed to harness the benefits of database sharding. By breaking down our database into smaller, manageable shards, we can enhance data retrieval and storage capabilities. These shard servers work in harmony with the middle server to ensure data consistency, availability, and durability.

This architectural choice is paramount to meet the demands of our application effectively.

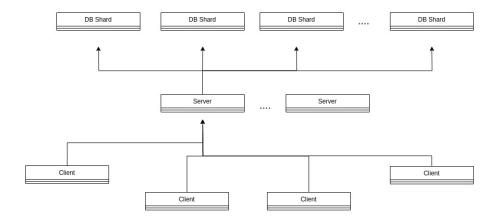


Figura 1: Architecture