

Caching

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Logos (wabsites)

High Lorad on server. Problet Requests lient

Fig: Problem Statement (Coching)

Solution: Caching Marora Coching. coche miss conte hit

BGB RAMZ s Coche (RAM) Server 256 hB SSD /morbs: student Icl

coche hit

Cache miss

## Caching

Caching is the process of storing a copy of frequently accessed data in a temporary, high-speed storage location (a "cache"). The goal is to make future requests for that same data much faster.)

Limited Memory

Redis

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## **Cache Eviction**

Cache Eviction is the automatic process of removing data from the cache when it is full to make space for new items.

## **Cache Invalidation**

Cache Invalidation is the deliberate process of removing an entry from the cache because the original data in the main database (the "source of truth") has changed.