

Performance Plan

~noFilter

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Performance Concerns

- Caching
- Database interactions between users
- Raw storage space
- Geographic location of servers

Improvements to Implement

- Server clusters in populated hipster areas (data sharding)
- Smart caching the posts based on time stamps
- Local database for frequently used information
- Asynchronous processing

New Technology To Use

- mySQL for relational database
- mySQL for data sharding
- memcached for caching
- REST API for business layer
- PostgreSQL for asynchronous calls to database
- Django is also scalable
 - o Examples: Instagram, Pinterest, Disqus, tabblo.com, chesspark.com

Final Product

- Information is cached into multiple tiers
 - o Local database for frequent use
 - o Data sharding for regional use
 - o Shared mySQL database otherwise
- Asynchronous processing
- RESTful API