CSE312 Open Source Report

Technology: Redis

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Redis is an open source data structure store, often referred to as a data structures server that is used as a database, and cache/message broker. Redis provides access to data structures such as hashes, lists, sets, and more. It can also run atomic operations. For our project we are using Redis as the backing store for the Django channels layer, which supports both a single-server and shared configurations, as well as group support. More information on redis channels can be found here: https://github.com/django/channels_redis

The data structures are accessed through commands which are sent through the server using TCP sockets. Once the data structures are implemented into Redis, they can be stored on a disk even though they are served on a server. This makes this process fast, but non-volatile. It offers natural database features and is memory efficient.
The GitHub repository for channels is found here: https://github.com/antirez/redis.

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