**Key-value Store**

* Key-value stores are distributed hash tables (DHTs).
* Key-value stores are useful in many situations, such as storing user sessions in a web application and building NoSQL databases.
* Examples of key-value store usage include bestseller lists, shopping carts, customer preferences, session management, sales rank, and product catalogs.

**Functional Requirements:**

* Configurable services – so that different applications could use a range of consistency models.
* Ability to always write – the applications should always have the ability to write into the key-value storage.
* Hardware heterogeneity – Each node should be functionally able to do any task.

**Non-Functional Requirements:**

* Scalable
* Available (Consistency Vs Availability trade-off, configurable)
* Fault-Tolerant

**API Design**

* Get (key)
* Put (key, value)