**Design Goals**

**Performance Criteria**

* **Response time:** Time for responding to user must be as fast as possible such that a purpose of the data distribution is to provide data faster by using the nearest server as possible. In general, the response time should be less than 5 minutes assuming the data is large.
* **Memory:** For the system, 40 GB disk space, 4 GB RAM, and 2 CPU cores are needed.

**Dependability Criteria**

* **Security:** For reaching to authenticated data, clients should use their account information. Passwords of the clients should be stored in a secure database. In addition to that, authenticated data should be encrypted within the system for avoiding other clients to reach.
* **Fault Tolerance:** In case of server failures, system should replicate the data into backup servers.
* **Availability:** The system should be available all the time by the use of data replication and recovery of the data when a server failure is detected.

**Maintenance Criteria**

* **Portability:** It is an important goal such that the system will have more users if it is portable among platforms. Since Java Virtual Machine is platform independent, portability of the system can be managed.
* **Modifiability:** In the architectural pattern, subsystems should be separated from each other and layering should be used accordingly.
* **Adaptability:** The data distributed by the system should be a generic data which means the system should not know its application domain. By that way, the system can be used in many areas.

**End User Criteria**

* **Utility:** The system should help people to access data in a fast and secure way. It can be used for massive data related research areas like genomics.
* **Usability:** The system should have a user-friendly interface such that users should be able to generate their requests easily. However it is required for them to know SQL.