Ethics Pledge

Consistent with the above statements, all homework exercises, tests and exams that are designated as individual assignments MUST contain the following signed statement before they can be accepted for grading.

I pledge on my honor that I have not given or received any unauthorized assistance on this assignment/examination. I further pledge that I have not copied any material from a book, article, the Internet or any other source except where I have expressly cited the source.

Signature: Haodong Zhao Date: Mar 11th. 2019

Please note that assignments in this class may be submitted to

www.turnitin.com, a web-based anti-plagiarism system, for an evaluation of their originality.

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**Reading review**

**Introduction to MongoDB**

MongoDB is an open source document database.

Document database is a data structure consisting of fields and value pairs.

Benefits of using documentation:

1. The document corresponds to this season’s data type in many programming languages.
2. Embedded documents and arrays reduce the need for expensive connections.
3. Dynamic mode supports smooth polymorphism.

Main features of MongoDB:

1. MongoDB provides high performance data persistence. Support for read and write operations, data aggregation, and text search and geospatial query.
2. Rich query language
3. High availability. MongoDB’s replica set provides automatic failover and data redundancy for increased data availability.
4. Horizontal scalability (part of the core functionality). Sharding distributes data across a cluster of machines.
5. Support multiple storage engines, WiredTiger storage engine, memory storage engine, MMAPv1 storage engine and more.