Vidyavardhaka Sangha®, Mysuru
VIDYAVARDHAKA COLLEGE OF ENGINEERING
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P.B. No.206, Gokulam, III - Stage, Mysore - 570 002, Karnataka, INDIA.

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

MongoDB: Cross-Platform Document-Oriented Database

Abstract:

MongoDB is a document-oriented NoSQL database that provides a flexible and scalable solution for storing and managing large volumes of data. It uses a JSON-like data model, which allows for the storage of data in semi-structured documents that can be easily queried and updated. MongoDB's document-oriented approach provides a more natural and efficient way of handling complex data structures, making it a popular choice for many modern web applications.

One of the key advantages of MongoDB is its ability to scale horizontally. MongoDB can distribute data across multiple servers and nodes, allowing for the handling of large volumes of traffic and data. MongoDB also provides automatic sharding, replication, and load balancing, which ensures high availability and fault tolerance.

MongoDB provides a powerful query language that supports complex queries, text search, and geospatial queries. It also supports aggregation pipelines, which allow for the processing and transformation of data within the database itself. MongoDB provides a range of indexing options, including compound indexes, geospatial indexes, and full-text search indexes, which enable efficient querying and fast data retrieval. Additionally, MongoDB provides a range of tools and services to help developers manage and monitor their databases, making it a popular choice for developers who are looking for a scalable and flexible database solution.

Submitted By:

Name: Manoj M
USN: 4VV19IS045

Signature: **Signature of the Guide**