**SYNOPSIS**

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Class (Year): T.E Computer

Division: B

Roll No: 3471

Seminar Topic: MongoDB – A NoSQL Database

Area of Topic: Database

Guide : Prof. Hitendra.S.Khairnar

**Objective**

To learn in detail about MongoDB (a NoSQL database) which is being used extensively now-a-days.

**Motivation**

Modern applications are more networked, social and interactive with the network.

This is driving new requirement to support

* Big data
* Fast feature development
* Flexible deployment strategy.

So, learning mongoDB will help in getting to know more about the NoSQL family of databases.

**Outline**

* **Introduction to MongoDB -** In this section the need and definition will be covered.
* **Features -** In this part theaspects which will make mongoDBstand apart from other databases will be discussed.
* **Architecture** – In this part the architecture and the terminologies related to it will be discussed.
* **Data model** – This part covers the details regarding the actual storage of data using mongoDB architecture.
* **Documents and Collections** – In this section the basic building blocks of database created using mongoDB will be discussed.
* **Replication** – In this part the duplication of data using servers known as replica sets will be covered.
* **Sharding** – In this part the details regarding distribution of data among several machines will be coverd.
* **Querying –** The syntax of different mongoDB core operations will be discussed.
* **Comparison –** In this part the mongoDb will be compared with Oracle and other noSQL databases.
* **Applications** – In this section the use of mongoDB in various fields will be covered.

Sreeja Mohan Prof. Hitendra.S.Khairnar