

Complete Project Team-5

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A. <u>Description of tasks completed after Milestone-1.</u>

After Milestone-1, one of the major task that we completed was Sharding, which had a series of steps.

- Understanding the concept of Sharding and the basic setup.
- Starting mongd instances Config Server
- Configuring the configuration server instances as replica sets
- Creating mongo instances to run as shards of the database
- Configuring the shard server instances as Replica Sets
- > Start a Routing Server
- Connect to MongoS
- ➤ Adding shards to the Router
- Importing data into the Database created
- Performance Evaluation.

B. <u>Task Completion status(All Tasks+Any features that could not be implemented)</u>

- ✓ We were on track as planned in the initial project planning phase.
- ✓ We have completed all the above-mentioned tasks on time.
- ✓ The tasks mentioned in red had been deprecated in the later phase of the project implementation as they were taken into consideration at the time of research work and due to time constraints and studying the relevance of these tasks in our project didn't add any value to what we had planned of doing. we decided to exclude them for our task list.

TASK	Sub-Tasks	Owner	Status
Prerequisites	MongoDB Installation on local	All	
	MongoDB Compass on local		
	Basic familiarity with MongoDB		
	Basic understanding of Indexing		fr .
	Basic understanding of Sharding		
Data Identification	Identify large datasets of various volumes for analysis	Ragini	
	Sample dataset to perform proof of concept activities	Vishvak	
	Importing identified data into local DB to work on	All	
Query Identification	Query identification for analysis based on the dataset utilized	Vivek	
Performance Metrics & Results Documentation	Identify & understand how performance is measured in MongoDB	Vivek	
	Run the queries identified and document performance stats	All	
Index Implementation	Build indexes on identified fields on all datasets	All	
	Synchronizing Index		
	Verifying Index		
	Upgrading Index		
	Rebuilding Index		
	Analyzing the scope of Compound Indexes for the data	All	
	Implementing Compound Indexes	All	
Sharding Implementation	Create a Directory for Config Server	1	
	Setup Config Mode on a new Server		
	Syncing the Mongo instance and Config Server		
	Cluster creation and population		
	Enabling Sharding		

Color	Significance
	Completed
	Deprecated
	Could not be completed
	On Track – To be taken up next