**Chapter-I**

**INTRODUCTION**

MongoDB is a document-oriented NoSQL database used for high volume data storage. Instead of using tables and rows as in the traditional relational databases, MongoDB makes use of collections and documents. Documents consist of key-value pairs which are the basic unit of data in MongoDB.

***Use Of MongoDB:***

Below are the few of the reasons as to why one should start using MongoDB

1. Document-oriented – Since MongoDB is a NoSQL type database, instead of having data in a relational type format, it stores the data in documents. This makes MongoDB very flexible and adaptable to real business world situation and requirements.
2. Ad hoc queries - MongoDB supports searching by field, range queries, and regular expression searches. Queries can be made to return specific fields within documents.
3. Indexing - Indexes can be created to improve the performance of searches within MongoDB. Any field in a MongoDB document can be indexed.
4. Replication - MongoDB can provide high availability with replica sets. A replica set consists of two or more mongo DB instances. Each replica set member may act in the role of the primary or secondary replica at any time. The primary replica is the main server which interacts with the client and performs all the read/write operations. The Secondary replicas maintain a copy of the data of the primary using built-in replication. When a primary replica fails, the replica set automatically switches over to the secondary and then it becomes the primary server.
5. Load balancing - MongoDB uses the concept of sharding to scale horizontally by splitting data across multiple MongoDB instances. MongoDB can run over multiple servers, balancing the load and/or duplicating data to keep the system up and running in case of hardware failure.

**Chapter-II**

**DESCRIPTION**

**A picture containing text, iPod, businesscard

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***FIGURE 1: FILE SHARING APPLICATION***

The name of our project is “File Sharing Application”. In this project we are building a application in which we can share a file (Upto 100Mb) by generating a link which is shared to the user and user can download the requested file from the link provided .

For the front end we have used Html , CSS and Java Script and for the back end we have used Atlas MongoDb and Express

Our Project can be very useful to the college students for sharing the notes and images. Even for the people working in the IT industry can share their PPT through our application

**Chapter-III**

**REQUIREMENTS**

HARDWARE REQUIREMENTS:

Tools and Framework used in Hardware are :

SMART DEVICE- Any Smart Devices for viewing our webpages , For ex- Laptop, Mobile , Tablet etc



Memory (RAM): Minimum 1 GB; Recommended 4 GB or above.



SOFTWARE REQUIREMENTS:

Tools and Framework used in Software are :

HTML- HTML (Hyper Text Markup Language) is the most basic building block of the Web.



CSS- Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML.



JAVA SCRIPT - JavaScript often abbreviated as JS, is a programming language that conforms to the ECMAScript specification. JavaScript is high-level, often just-in-time compiled, and multi-paradigm



MONGODB- MongoDB is a document-oriented NoSQL database used for high volume data storage.



NODE JS- Node.js is an open-source, cross-platform, back-end JavaScript runtime environment that runs on the V8 engine and executes JavaScript code outside a web browser.



EXPRESS- Express.js or simply Express, is a back-end web application framework for Node.js, released as free and open-source software under the MIT License. It is designed for building web applications and APIs.



**Chapter-IV**

**METHODOLOGY**

Diagram

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***Figure 2: Block Diagram***

Refer the figure 2 which depicts the Block diagram of the proposed work, The following are the blocks-

1. Client Module – The client module requests the data from the Server
2. Server component – It provides the requested data by the user
3. MongoDB component – It stores the data of the particular document
4. Authentication Module- Open To All

Diagram

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***Figure 3- Architectural Design***

Refer the figure 3 for the architectural design of the proposed work

**Chapter-V**

**LINK TO THE PROJECT**

GitHub link to the project source Code

<https://github.com/saivaibhavks/FILE-SHARING-APP.git>

**Chapter-VI**

**TESTING**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test case id | Test case description | Test steps | Condition | Result | Status |
| 1 | Testing File Upload | Browse the requested file  Select the file and drag and drop | File Size should be upto 100 Mb | File is Uploaded and the link is generated | Pass |
| 2 | Testing File  Download | Copy the generated link  Click on the download file to download it | File Size should be upto 100 Mb | File is Downloaded through the link | Pass |

**Chapter-VI**

**RESULTS**

**Graphical user interface, application

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***SNAPSHOT 1- FRONT END VIEW OF THE PROJECT***

***A screenshot of a computer

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***SNAPSHOT 2- SELECTING A FILE TO UPLOAD REQUESTED BY CLIENT***

***Graphical user interface

Description automatically generated***

***SNAPSHOT 3- FRONT END VIEW AFTER UPLOADING THE FILE***

***Graphical user interface, application

Description automatically generated***

***SNAPSHOT 4- FRONT-END VIEW FOR DOWNLOADING THE SHARED FILE***

***Text

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***SNAPSHOT 5-DATABASE CONNECTION CONFIRMATION***

***Graphical user interface, text, application

Description automatically generated***

***SNAPSHOT 6- ATLAS DATABASE VIEW AFTER UPLOADING THE FILE***

**Chapter-VII**

**REFERENCES**

**1.** [**https://expressjs.com/en/guide/routing.html**](https://expressjs.com/en/guide/routing.html)

**2.** [**https://youtu.be/TlB\_eWDSMt4**](https://youtu.be/TlB_eWDSMt4)

**3.** [**https://youtu.be/K0aDh\_sfVrc**](https://youtu.be/K0aDh_sfVrc)

**4.** [**https://youtu.be/U3fkWvaqgle**](https://youtu.be/U3fkWvaqgle)

**5.** [**https://youtu.be/SAX8b3AN3Uc**](https://youtu.be/SAX8b3AN3Uc)

**6. Classroom Activity and Classes**