MINI PROJECT- SYNOPSIS ON

File Sharing Website



**Submitted By Submitted To**

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# INTRODUCTION

File Transfer Web Application is used to upload any type of files like pdf, mp3, word, video, etc.) into a database table and can download any type of files from the database. The web application is developed in 3 tier architecture involving user interface, controller and database. The user interface will be a web page hosted on a server. The web page consists of both static and dynamic content. All the data required for the application is stored in database tables. Controller accesses the data from the database and provides it to the user through user interface (web page).

**User Interface:**

The File Transfer web application contains four web pages like Home page, Upload page, download Page and About Us page. On every page there are four buttons named Home, Upload, download and AboutUs, and the user can click on any of the button to go to that particular page. The Home page and AboutUs page contains details about the project. In the Upload page, the user can upload any type of files into a database table by selecting any file from the computer using ‘choose a file’ button and once the user click on the upload button the file will be uploaded to a database table. The Download page contains all the files that are in the database table. When the user clicks on a particular file that is displayed on a Download page the file will be downloaded into the computer. In this way the user can upload and download files using File Transfer Web Application.

**PURPOSE OF THE PROJECT**

The purpose of this system will manage an file sharing.the User can upload its files or download the one already in the folder already uploaded by the itself.  When the User uploads a file in folder, the Receiver will receive an email alerting him of the new file and with a link to download it without logging in the File Sharing System.

# Technology Used

**1.HTML**

• HTML stands for Hyper Text Markup Language

• HTML is the standard markup language for creatingWeb pages

• HTML describes the structure of a Web page

• HTML consists of a series of elements

• HTML elements tell the browser how to display the content

• HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.

**2. CSS**

• CSS stands for Cascading Style Sheets.

• CSS describes how HTML elements are to be displayed on screen, paper, or in other media.

• CSS saves a lot of work. It can control the layout of multiple web pages all at once.

• External stylesheets are stored in CSS files.

3. **JavaScript**

JavaScript is a very powerful client-side scriptinglanguage. JavaScript is used mainly for enhancing the interaction of a user with the webpage. In other words, you can make your webpage livelier and more interactive, with the help of JavaScript. JavaScript is also being used widely in game development and Mobile application development

**4. Node.js**

This is in contrast to today's more common concurrency model, in which OS threads are employed. Thread-based networking is relatively inefficient and very difficult to use. Furthermore, users of Node.js are free from worries of dead-locking the process, since there are no locks. Almost no function in Node.js directly performs I/O, so the process never blocks. Because nothing blocks, scalable systems are very reasonable to develop in Node.js.

**5. Socket.IO**

Socket.IO enables real-time, bidirectional and event-based communication. It works on every platform, browser or device, focusing equally on reliability and speed.

Real-time analytics Push data to clients that gets represented as real-time counters, charts or logs.

Binary streaming: - Starting in 1.0, it's possible to send any blob back and forth: image, audio, video.

Instant messaging and chat Socket.IO's.

Document collaboration Allow users to concurrently edit a document and see each other's changes

6. **Express.js**

Express is a minimal and flexible Node.js web application framework that provides a robust set of features to develop web and mobile applications. It facilitates the rapid development of Node based Web applications. Following are some of the core features of Express framework −

Allows to set up middleware to respond to HTTP Requests.

Defines a routing table which is used to perform different actions based on HTTP Method and URL.

Allows to dynamically render HTML Pages based on passing arguments to templates.

**7. npm**

npm, Inc. is a company founded in 2014, and was acquired by GitHub in 2020. npm is a critical part of the JavaScript community and helps support one of the largest developer ecosystems in the world. npm is lots of things. npm is the package manager for Node.js. It was created in 2009 as an open source project to help JavaScript developers easily share packaged modules of code.

The npm Registry is a public collection of packages of open-source code for Node.js, front-end web apps, mobile apps, robots, routers, and countless other needs of the JavaScript community.

npm is the command line client that allows developers to install and publish those packages.

8. **Nodemon**

Nodemon is a tool that helps develop node.js based applications by automatically restarting the node application when file changes in the directory are detected.

## SOFTWARE AND HARDWARE REQUIREMENT

## Software Interface:

## Front End Client: HTML,CSS, JavaScript

## Data Base Server: MongoDB

## Back End: Node.js ,Express.js

## Operating System: Window XP Or Above

## Browser: Any Latest Browser

## Hardware Interface:

## Processor: Intel Pentium IV 2.0 GHz and above

## Ram: 512 MB and above

## Hard Disk: 80 GB and above

## Free Disk Space: 300 GB

## REFERENCES

### Books:

* + - * Full-Stack :- Modern Full-Stack

Development Pro MERN Stack

* + - * The Road to Learn
      * Full-Stack Projects

### Websites:

* + - * <https://www.w3schools.com/>
      * <https://getbootstrap.com/>
      * [www.google.com](http://www.google.com/)

## Faculty Guidelines :-

Mr. Mandeep Singh (Technical Trainer, GLA University)

**GitHub Repository link :-**

<https://github.com/trivedi-ayush/fileshare-backend>