MINI PROJECT (2020-2021)

Real-Time file sharing App

MID-TERM REPORT



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Abstract

File sharing is one of the oldest applications of the internet. One way of sharing files online is for a user to upload files to a common space on the web and others users can download the files from the common web space.

The objective of this project was to design an online file sharing website where users can upload files and other users can download them. To make the website more user friendly, users were given two space-constrained visualizations of their file system to view space occupied by the files and folders, and three AJAX based file management system that works like browsing files on a desktop computer with drag and drop etc.

This report discusses the implementation details of the website, and the advantages of having different visualizations of the file system.

Introduction

1.1 General Introduction to the topic

This project is a real-time file sharing application. File sharing is one of the oldest applications of the internet. One way of sharing files online is for a user to upload files to a common space on the web and others users.can download the files from the common web space.

The objective of this project was to design an online file sharing website where users can upload files and other users can download them. In this project users can upload the file by selecting the file or just doing drag and drop. After that a link will be generated that will work for 24 hours . Users can either send that link to another user or can directly mail it to the other user email address. The other user can click on the link and a download page will appear from there the other user can download the file .

1.2 Area of Computer Science

In this we are using html, css and javascript for the frontend.HTML provides the basic structure of sites, which is enhanced and modified by other technologies like CSS and JavaScript. CSS is used to control presentation, formatting, and layout. JavaScript is used to control the behavior of different elements.On the other hand we will use node js for backend and mangoDB as database.Node.js is a platform built on Chrome's JavaScript runtime for easily building fast and scalable network applications. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient, perfect for data-intensive real-time applications that run across distributed devices.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. Collections contain sets of documents and function which is the equivalent of relational database tables. MongoDB is a database which came into light around the mid-2000s.



Web Technology:

- HTML
- CSS
- JavaScript
- Node Js

1.3 Hardware and Software Requirements

a) Hardware Requirements:

• Latest Configuration Laptop

b) Software Requirements:

- Visual Studio (Version 1.38)
- MangoDB (database)

Problem Definition

Online File Sharing is practice of sharing files among different users across the internet. Common forms of file sharing are FTP (File Transfer Protocol) model and P2P(Peer-to-Peer) file sharing network. Another common form of sharing files over the internet is for a user to upload files to a website and allow other users to download them from the website. There are a lot of issues to consider when developing such a website.

Users of an online file sharing website who use features like upload, download, etc would want a website that is very interactive and fast and not annoying with a lot of post backs and flashing screens. Another issue is the visualization of their file system where usually users have a limit to upload files. The normal web based file folder view would be good, but if there are other types of visualizations it would be great.

Objective

The objective of this project was to design an online file sharing website where users can upload files and can generate links using which the other user can download the file easily.

Implementation Details

- Part 1:making frontend of the website using html and css.
- **Part 2**: Making frontend interactive by adding javascript.
- Part 3: setting up the project . downloading all the dependencies. Making file upload api using node js
- **Part 4:** creating server, making mangoDB connections, Making file upload api, downloading file api and sending mail api using node js.
- Part 5: deploying project on heroku for free

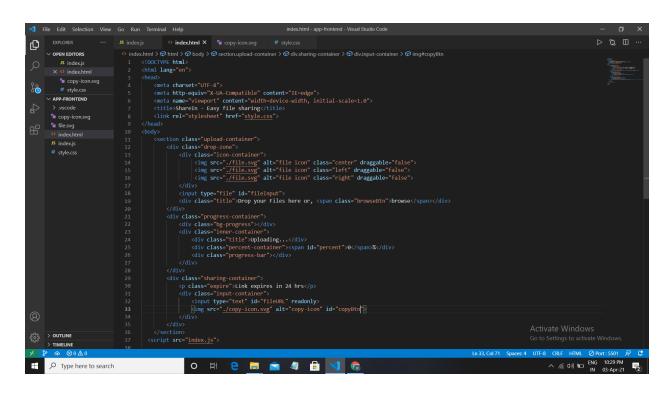
Progress

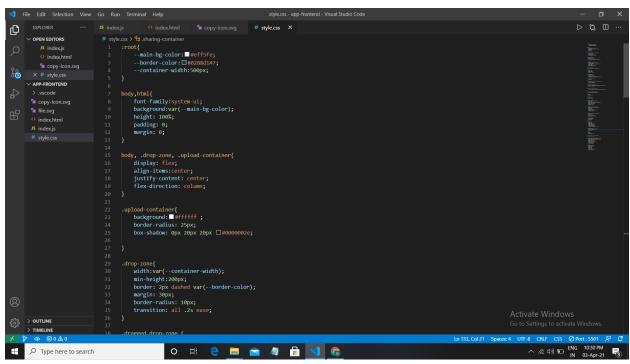
- 1. Part 1 is completed
- 2. Part 2 is completed
- 3. Part 3 setting up the project and downloading all the dependencies completed

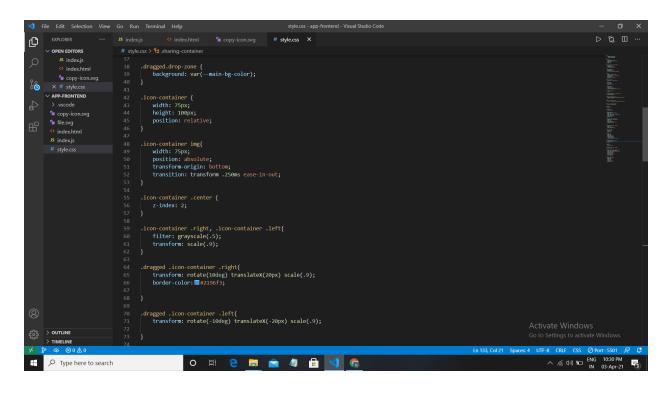
Remaining work:

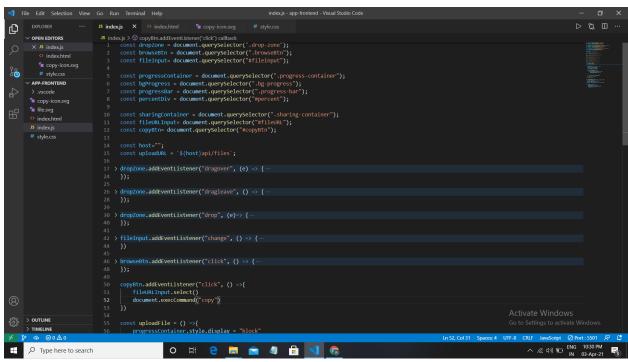
- Some task of Part 3
- Part 4
- Part 5

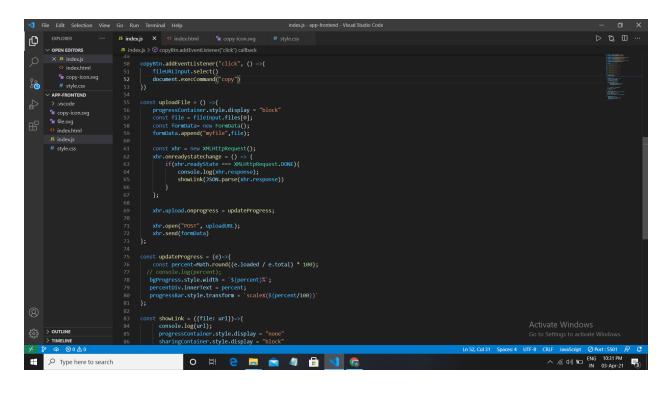
SCREENSHOTS

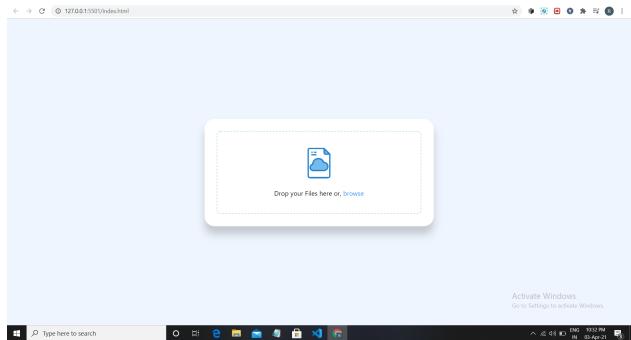


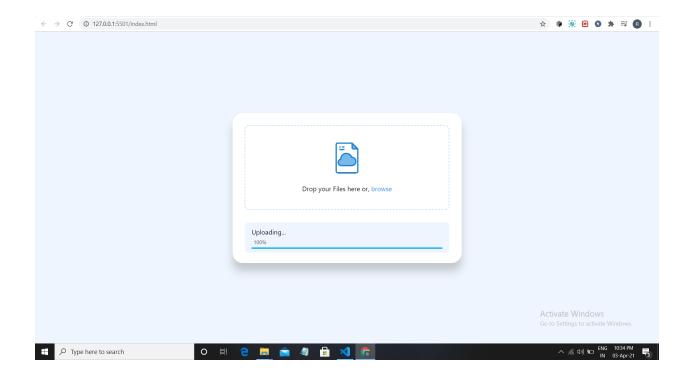












References

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