# B.TECH. PROJECT REPORT on

## **SHARELodge**

## **Files Sharing Made Easy**



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#### >Abstract

The internet has made it extremely easy for anyone and everyone to share files. Whether you work for a company, work as a freelancer, or just want to share funny dog videos with friends, family, or business associates, file sharing is something everyone's familiar with.

But sometimes we were getting annoyed by having to log in to our Email account on computers, we don't own just to download some attachments and it also refuses to send emails with more than 25MB of attachments, it's hard to send large presentations, images or videos. However, there's a workaround. So, In the project we are trying to build an application that requires minimum steps and also great for carrying and sharing files upto 100MB — providing people the right tools for their data sharing tasks.

## **≻**Description

- ★ Sharelodge is a full stack file sharing web-application allowing users to conveniently and instantaneously upload files of any supported format i.e .pdf, .doc, .tif, .png, .jpeg, .mp4 and share it with the generated link so that person on the other end can get it by automatically browser downloads
- ★ It requires minimum steps and also great for carrying and sharing files upto 100MB providing people the right tools for their job.
- ★ It is a file-sharing tool that eliminates all worries about sharing large files with the supported facility of auto database rectification along with expiration of generated links within the timespan of 24hrs.
- ★ It serves as a professional way to send large files. Using a Sharelodge makes sharing and downloading the desired piece of information easy, convenient, and instantaneous while working on specific given tasks/projects.
- ★ It reduces the amount of effort, time, and energy and lets one focus more on the performance and productivity part because It generates its own unique link after uploading the document. One can Send this link to project members via emails, documents, or any other digital communication, for downloading the document.

Because generally, it's easy and professional to email the documents to any person who's integral to the project.

## **≻Tools and Technology Used**

#### O Hardware Requirements

- Mac, Unix and Windows client computers
- Other hardware related support (redundant drives, UPS, etc.)

#### ○ **Software Requirements**

- Vs code
  - An integrated development environment for development and configuration of the application with Mongoose and React js library and other utilities as npm express nodemon nodejs
- HTML5 / CSS3
  - To structure & style the fully responsive Graphical User Interface of the application.
- React.js
  - To design interactive and dynamic GUI
- Backend Mongoose API
  - Database management.
- Multer Package
  - To upload a file in NodeJs (Fetch Api and File upload API)
- Nodemailer
  - To send emails using free SMTP from our node server.

#### • <u>User Requirements</u>

- The users should conveniently be able to share files of any supported format i.e.pdf, .doc, .tif, .png, .jpeg, .mp4
- Automatic file browsing feature
- Direct Drag and drop feature
- Uploading Progress bar, it should be less in effort and time-reductible than the usual tools available nowadays.
  - Sending link instead of files through email and auto downloading in order to support sharing of files more than 25 mb( generally the threshold data sharing limit of mostly available tools)
- Database automatic rectification along with link expiration after a timespan of 24hrs
- Feedback/Notification Alert facility

#### **Additional Features**

☐ High in Throughput, performance and productivity part as it generates its own unique link after uploading the document. One can Send this link to project members via emails, documents, or any other digital communication, for downloading the document

## > Activity Time Plan

#### o Phase 1:

PROJECT ACTIVITY	DURATION
Analyzing requirements and setting up the environment.	Week 1- Week 2
Designing the UI layout of pages.	Week 3
Adding basic functionality and starting database design.	Week 4

Start writing HTML	
Animate the file icon	
☐ Adding Functionalities:	
☐ Adding drag drop	

**□** Designing Layouts:

- ☐ Uploading the file using XHR
- ☐ Monitor the upload progress
- ☐ Calculating the upload percent
- lue Create progress bar
- ☐ Making website responsive
- $\hfill \square$  Adding file limit & size limit

## ○ Phase 2 (Backend):

- ☐ Successfully Uploading Files in Node Js using Multer package(Fetch & File upload API)
- ☐ Make & show link box
- ☐ Copy link to clipboard
- ☐ Download file from Node Js server
- ☐ Adding email form
- ☐ Send email with Fetch API

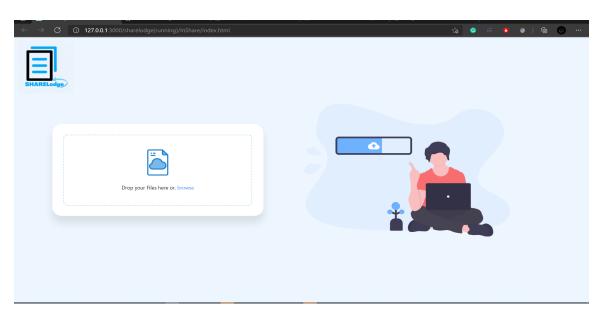
- □ Nodemailer to send emails using free SMTP from our node server. □ Schedule a script on the server so one could delete 24 hours old files from the storage..
- ☐ Last, but not the least creating notification alert
- ☐ Finally we will deploy this project on the live server.
- ☐ Testing and VALIDATIONS.Schedule cron jobs on the server.
- > We have used Insomnia during testing of our backend code for handling of POST and GET requests on local serve.
- We have used "MongoDB Atlas Database Cloud DBaaS for MongoDB" for database.

## >Screenshots from our proposed work

#### **Logo**

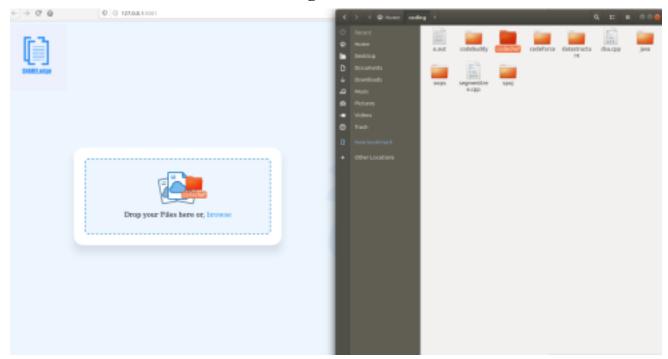


### **Homepage:**

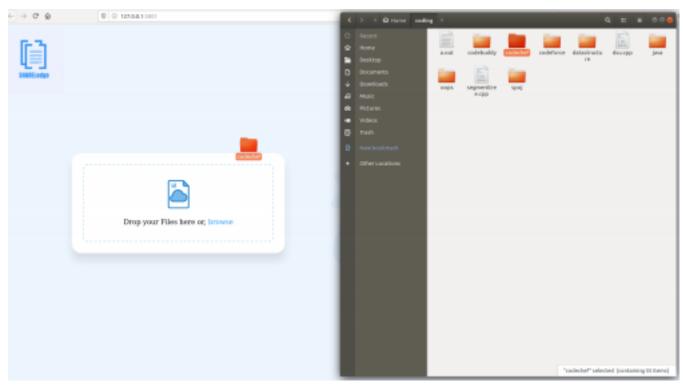


## **Direct-Drag and drop animated feature:**

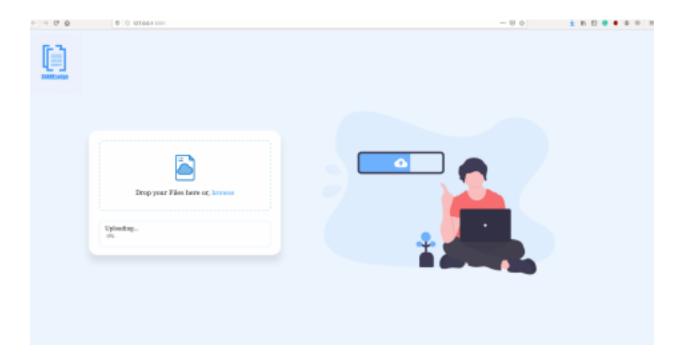
## fig1



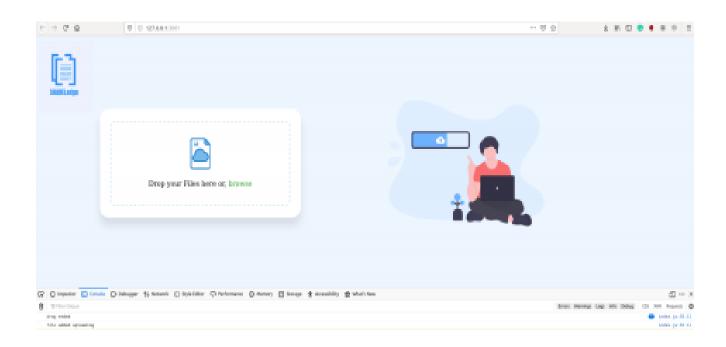
## fig2



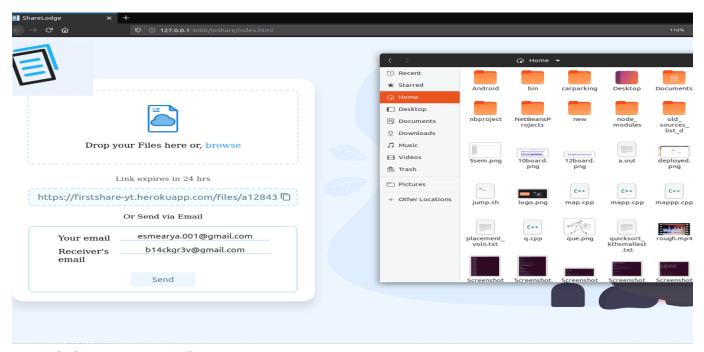
## **Handle-uploading Progress bar:**



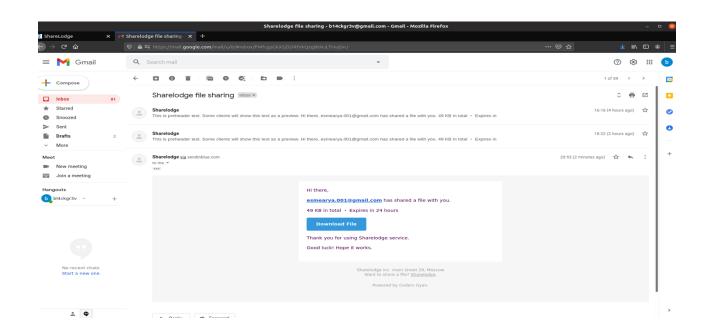
## **Progress bar - console activity:**



### After upload file automatic enable Email option and genrate link:



## **Receiving the Email:**



#### >Future work

Initially we are developing the project in local systems, to test the production build of the application. We would like this software to be used by everyone so when we finish making the project it will be configured and deployed over a well suited cloud application platform to make it quickly accessible.

★ Global deployment of tool on live server and

Thus, we will be sharing our tool among multiple users for better experiences in file sharing!!!!