Online Files Manager

CSCI 484 - Computer Networks

Logan Humbert

Colorado Mesa University

May 8, 2024



Table of Contents

- Introduction
- Requirements
- Oevelopment
 - Technologies used
 - Authentication
 - Access files
- Operation of the control of the c
- Conclusion

Introduction

My project

Online Files Manager

Store and retrieve files via web Interface

Requirements

An unauthenticated user must be able to

- Register a new account
- Login to his existing account

An authenticated user must be able to

- Upload files
- Create folders
- View his images/videos/musics directly from the app
- Download his files

A user, connected or not must not be able to access files belonging to other users

Development

Technologies used

Backend

- NodeJS Run JavaScript Server side
- Express Backend web Framework
- Passport Authentication middleware

Frontend

React - JavaScript library to build UI based on components

Development

Authentication

Passport.js

Authentication middleware for NodeJS

Support username/password, Facebook, Twitter, Google oauth, ...

Development

Access files

fs module

Built in NodeJS module

Access and modify files and directories in the server's file system

Handle different data types

- Video/Audio: Stream the data
- PDF: Send as base64 (Not optimal for bigger files)
- Others: Send as binary

Demo

Conclusion

Objectives fulfilled?

Requirements correctly integrated in final product

How to improve the app?

- Be able to download folders as zip
- Administrator mode to manage user access

The End

Thank you for your attention! Do you have any question?