Project Documentation

For

File Manager

Version 1.0

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Introduction and Purpose

This electron application is a file manager created to satisfy the project requirements as specified by the *Project 2 Document* provided by the instructor.

Getting Started

This application depends on the following node packages
- Electron
- Url
- Path
- Fs
- Rimraf
- Vis
- Os

To run this application, navigate to the application's location within a terminal window and run the following command:

```
npm start
```

Opening the Application

The application will display a *Loading* screen while the application prepares the first folder to be viewed.

Upon loading, the application will open the user's *Videos* folder located at the following path:

`C:\\Users\\(username)`[\\Videos](#)

In this path, *(username)* is generated through the code by retrieving the current user's username. This path was chosen as a starting point because it is highly likely that this path exists for all users and is relatively small, thereby leading to a shorter loading time.

Functionality

- Create Empty Files
  The application can create empty files by doing the following:
  - Click *File* in the menu
  - Click *Create File or Folder*
  - Use the dialog box to create a file anywhere on the computer
  - The new file will be created on the computer
  - The application will refresh
    - If the file was created in a folder that the user can currently view, then they will also be able to see the new file automatically
    - If the file was created in a folder that the user is not currently viewing, they will not be able to see the file until they navigate to that folder
- Remove Files
  The application can delete any file that is currently being viewed by doing the following:
  - Double click any file
  - The application will refresh to reflect the change
- Create Empty Directories
  The application can create directories by doing the following:
  - Click *File* in the menu
  - Click *Create File or Folder*
  - Use the dialog box to create a folder anywhere on the computer
  - The new folder will be created on the computer
  - Click *Ctrl+R* to refresh the page
    - If the folder was created in a folder that the user can currently view, then they will also be able to see the new folder once a file is added to it
    - If the file was created in a folder that the user is not currently viewing, they will not be able to see the file until they navigate to that folder
- Remove Directories
  - Click *Directory* in the menu
  - Click *Delete Directory*
  - Use the dialog box to select the folder you would like to delete
  - The folder and everything in it will be deleted on the computer
  - *Ctril+R* to refresh and see the change

- Copy Files Anywhere
  - This feature has not been implemented
- Move Files Anywhere
  - This feature has not been implemented
- Information About Files
  - This feature has not been implemented

- Navigating to other directories
  The application allows the user to navigate to any directory on the computer by doing the following:
  - Click *View Another Directory*
  - Use the dialog box to select a folder
  - The application will automatically load the new folder along with all of the files and folders within it
    - It is important to note, that large files and folders will take a significant amount of time to load
- Additional Feature
  - There is a loading screen implemented that will persist until the application is fully loaded
  - The *Cluster by hubsize* button will cluster the files
    - This is particularly useful if the user if viewing a large number of files and folders
    - The files can be declustered by clicking on any cluster
  - A pop-up is visible when the mouse hovers over any file or folder

Looking Ahead

In the future, I would like to finish implementing the copy and move files features along with the display information.

Additionally, I would also like to figure out a way to load large folders in a shorter amount of time.