filez++ (SSH File Manager)

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Introduction

- As remote working is going on companies have to use servers remotely.
- A Utility Tool for Browsing files from a Remote server using protocols like Secure Shell Host (SSH).
- The Software is an installable, Desktop Application developed using Electron.JS (Packaging Tool) by using Web Technologies including Node.JS, Express.JS, Angular, EJS.

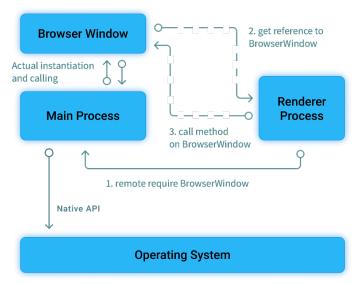
Existing System

- Cannot save connections
- Cannot connect to multiple ssh servers at once
- User Experience Issue, hard to use for naive users
- Server-side installation required
- Not Portable (User have to install the software in their PC)

Proposed System

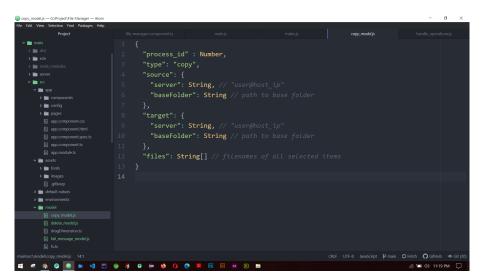
- Add/Edit/Test/Delete Connections
- Connect to multiple SSH servers at once.
- GUI is easy to use, and highly customizable
- Most features of Native File Browsers like Windows File Explorer.
- Logs and User activity available.
- Server-side installation is not required
- Portable (Can run without installation on Users PC)
- Can run on Windows, Ubuntu, Fedora, Debian, MAC, etc.
- Logs and User activity available.
- Does not take much resources like RAM and CPU.

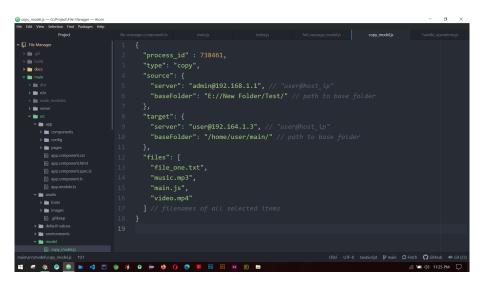
System Architecture

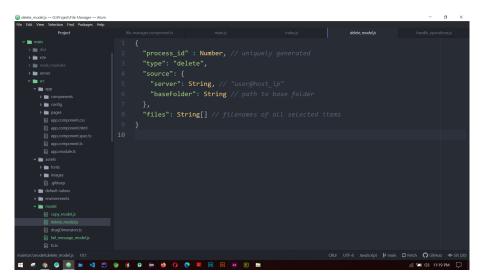


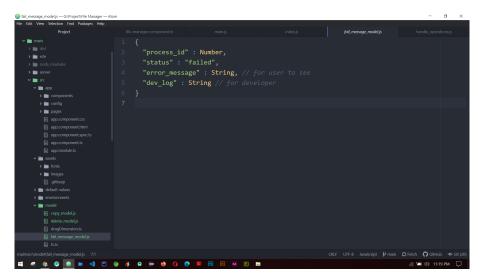
Product Backlog

SI No.	User Stories	Priority	Estimated Time	
1	User can browse local files	2	4 days	
2	User can create new file	2	2 2 days	
3	User can create new folder	2	1 day	
4	User can delete files and folders	2	7 days	
5	User can rename files and folders	2	5 days	
6	User can open files, folders and shortcut files	2	4 days	
7	User can add, edit, delete, test ssh connections	1	13 days	
8	User can browse SSH files	1	2 days	
9	User can create new file/folder	1	1 day	
10	User can delete/rename files/folders	1	5 days	
11	User can open folders	1	3 days	
12	User can copy/paste files/folders	1	1 7 days	
13	User can cut/paste files/folders	1	1 day	









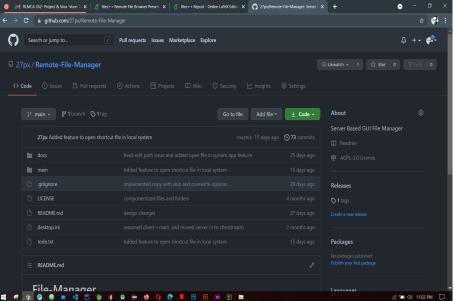
Hardware Requirements

- Storage : 350 to 400 MB (or greater) free space
- RAM: 1 GB (or more), 2GB Recommended
- Mouse : Required
- Keyboard : Not mandatory if having Touch Screen, or on screen keyboard

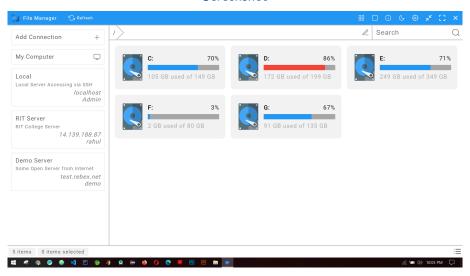
Sprint Backlog

SI No.	Sprint	To Do	Status
1	- Sprint 1	Analyze Features of Existing System	Completed
2		Develop UI Wireframe and Prototype	Completed
3		UI basic backbone development	Completed
4		Create Data Models	Completed
5		SSH Connection establishing	Completed
6	Sprint 2	SSH Connection testing	Completed
7		local file System accessing	Completed
8	- Sprint 3	create files feature	Completed
9		create folders feature	Completed
10		delete files and folders feature	Completed
11		browse directoy contents feature	Completed
12		GUI file management feature	Completed
13	Sprint 4	Serach feature	Completed
14		Open files feature	Completed
15	Sprint 5	Rename feature	Completed
16	Spriit 3	Packaging for Multiple Operating Systems	Completed
17		Testing in multiple Operating Systems	Completed
18	On wind 6	File Copy-Paste Feature	Completed
19	Sprint 6	File Cut-Paste Feature	Completed
20		Got To directory path feature	Completed

Version Control (Git)



Screenshot



Conclusion

- Developed a user friendly software inspired by FileZilla, without some of its limitations and adding some more Features.
- The Software is a Desktop application that can run on any platform and architecture.
- packaged app can be distributed and can be run without any additional dependencies or programming languages installed and is portable.
- Future modifications and scope could be adding support for System default recycle bin, including Online Storages like Google Drive, Dropbox etc.

