

## File System Organizer

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### Abstract

According to development requirements, a standardized management system is mainly used in basic information management files, file statistics and query management, file lending management. Development files for standardized management system that school personnel more efficient file management functions within the scope of work documents, files, archiving and management, promoting the school to improve the level of records management staff, increase their strength, and speed up the school on the pace of information technology to make the management more standardized and efficient. This paper introduces The Design and Development of a School File Management System for Standardized. Keywords- file; management system; standardization. In order to better manage the school's archives, in order to better ensure the integrity of the archives, to standardize the school to the records management standard, my company decided to develop school file standardized management system. Therefore, the file management system from unit files management practice, in accordance with national standards and relevant industry standards at the same time, in the "people-oriented" principle, suitable for the development of the middle and primary school of the characteristics of the actual file management software

**Key Words:** Files, organized, Management, Data, Storage, System

### 1. INTRODUCTION

Now a days we are involving with lots of data. Data can be handled by file system or database. File system is used for small amount of data like maintaining the record of class, maintaining 100 employee data etc. But database is used to maintain the large amount of data. For example, maintaining the data of company's employees, colleges, schools, etc. If we are using file system and maintaining different types of data like documents, photos, excel file, doc file. A file system is a process of managing how and where data on a storage disk, which is also referred to as file management or FS. It is a logical disk component that compresses files separated into groups, which is known as directories. It is abstract to a human user and related to a computer; hence, it manages a disk's internal operations. Files and additional directories can be in the directories. Although there are various file systems with Windows, NTFS is the most common in modern times. It would be impossible for a file with the same name to exist and also impossible to remove installed programs and recover specific files without file management, as well as files would have no organization without a file structure. The file system enables you to view a file in the current directory as files are often managed in a hierarchy. File system organizer it's a command line tool build in node is module. The main objective of this tool is organized files with according to their extension. This tool will help us to arrange any unorganized folder. File system organizer can be used widely in banking, school, University and many file handling system. Tree structure or hierarchical pattern can be viewed using by file system organizer.

## 2. PROBLEM STATEMENT

If you have a lot of files in a folder and they are not properly arranged, so you can use this tool to arrange them in a directory according to their extension, so at the end you will get organized files in a folder. For example: If you have .txt, .png, .mp3, .mp4, .pdf, .xls extensions File in folder and want to separate these files than after using this tool your files will get arranged like .txt, .pdf, .xls in document subfolder .mp3, .mp4 file in multimedia subfolder and .png in image subfolder.

## 4. OBJECTIVES

- To facilitate file creation and its updating in future.
- To provide an efficient method to locate records needed for processing

## 5. METHODOLOGY

### 5.1 SOFTWARE USED

- Node.js (Backend)
- File system and path module
- VS code
- NPM (Node Package Manager)

### 5.2 HARDWARE USED

- Diskspace-10gb or more
- Processor-64-bit\34 bit
- RAM-min 2gb
- Compatible with all operating system

### 5.3 IMPLEMENTATION

1. First, we need to install a Node.js software in our system for backend purpose.
2. After successfully installation of node.js, we need to install our FSO (File System Organizer) tool from our website (file system organizer.com).



Fig. 1 FSO Download Interface

3. After successfully installation of FSO tool we need to open FSO file containing folder in cmd (command prompt).

## 3. PURPOSE

File organization is very important because it determines the access, efficiency, flexibility and storage devices to use. Without a file organization stored information wouldn't be isolated into individual files and would be difficult to identify and retrieve.

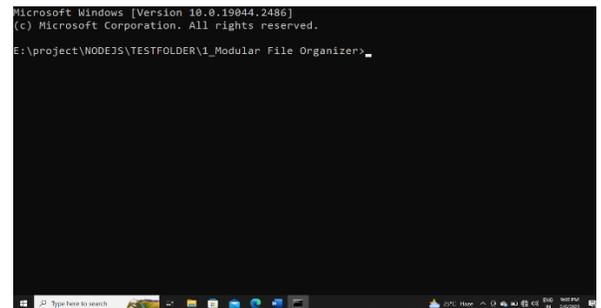


Fig.2 CMD Interface

4. Then we fire our first command which is necessary to show the option available throughout our program i.e. node FO.js help.

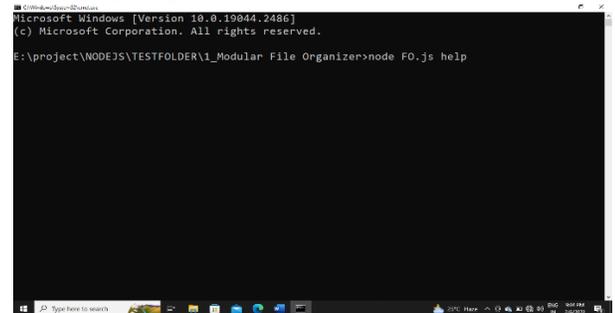


Fig. 3 Help Initializing command

5. There are three functionalities in the program Help, Organize and Tree functionality.

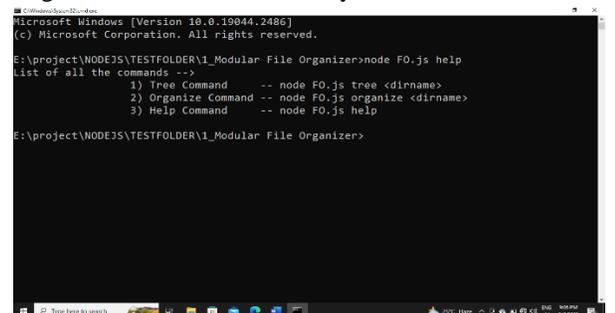


Fig.4 Available Command

6. Organize function done the job for user to organize the unsorted files in a sorted manner. Then for implementation of Organize functionality user needs to write “node FO.js organize <directory path>”.

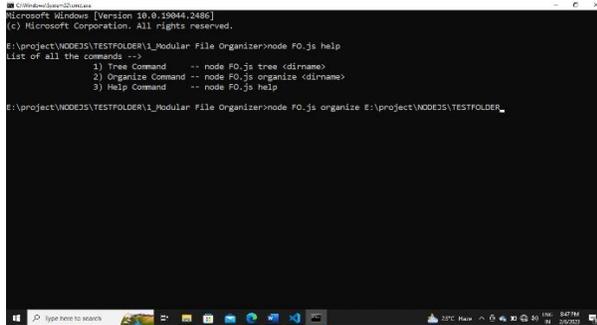


Fig.5 Organizing Folder path in CMD

7. Similarly, Tree function done the job for user to print the sorted files in a tree structure. Then for tree functionality user needs to write “Node FO.js tree <directory path>”.

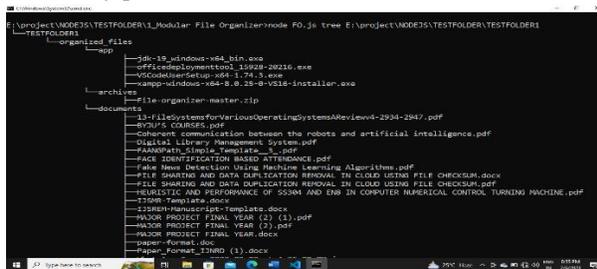


Fig.6 Tree View of Directory

6. FLOW CHART

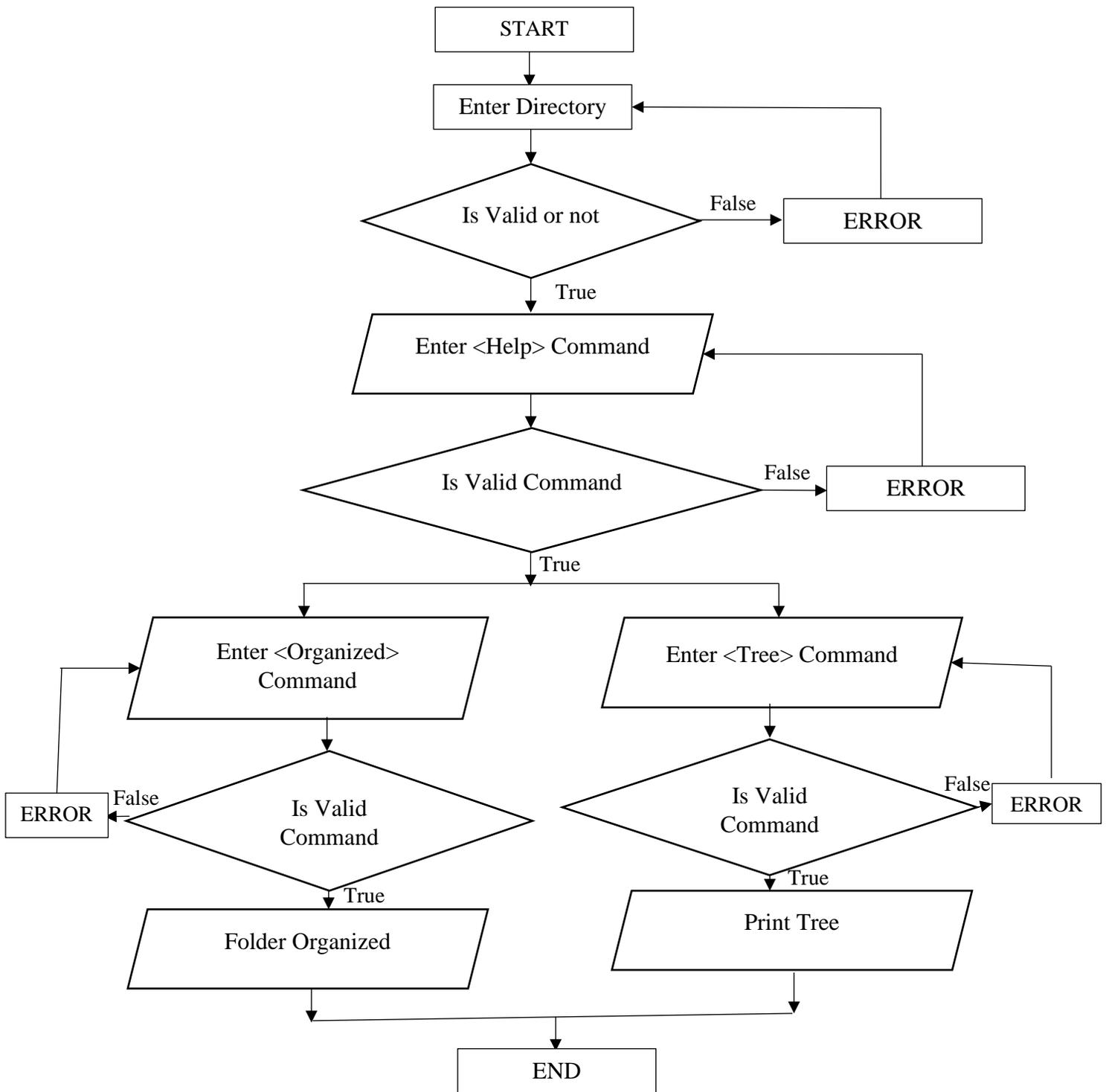
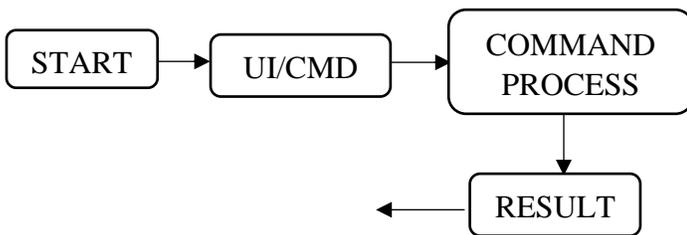


Fig. 7 Flow Chart of File System organizer

EXIT

Fig. 8 Block Diagram of File System Organizer

## 7. BLOCK DIAGRAM



- First, we Start the system and interact with our user interface (UI) i.e., CMD
- Then after the interaction with cmd we will fire a command and this command will carry the method of organizing files.
- After the Organization process the all-sorted files will shows in an organized folder and get us the desired result.
- After the completion of final stage program will be terminate and exit from the current window.

## 8. RESULT ANALYSIS

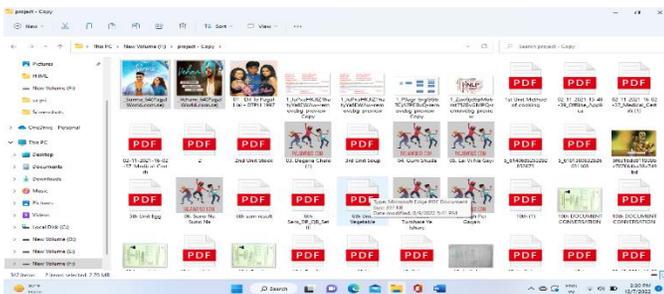


Fig. 9 Unorganized Folder

- A folder containing different files (different types of data) like .pdf, .doc file, MP3 file, MP file, etc.
- A folder has different types of data it is difficult to find a particular file under this folder. It needs to be arranged properly.

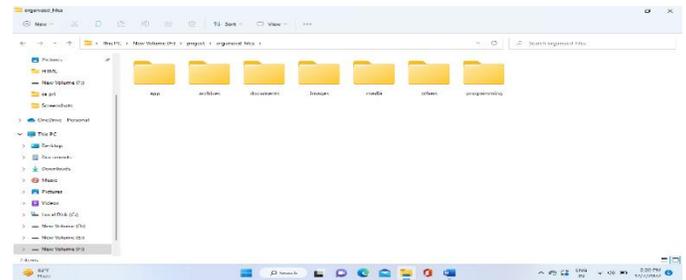


Fig. 10 Organized Folder

- After implementing file organizer tool unorganized folder is converted to properly organized folder.

## 9. FUTURE SCOPE

File system organizer has been around for at least a decade. In its earliest forms it was concerned mostly with keeping things organized and saving space, today it includes support for multi-national companies and large-scale operations that share data globally Software companies have also added an element of scalability to their file management software making it easier for smaller businesses to jump on board, and easily transition as they grow. Going forward, there are even more improvements on the horizon:

1. **To The Cloud** - There's no disputing the fact that cloud-based SaaS programs are the way of the future. File management software is definitely heading this way, especially due to the scalability and storage requirements that organizations are facing today. More information being stored for longer periods of time can quickly outgrow in house storage systems.
2. **Interface Improvements** - In the beginning, it seems that the user experience was not at the forefront of software engineer's minds. Today however, file management software has come a long way with the inclusion of intuitive user portals and controls. This makes it easier for companies to train employees and achieve higher adoption rates. Improvements in searchability and other tools have also made a huge difference.

3. **Mobile Support** - As your employees move to more mobile devices like their cell phones and tablets, it is natural for file management software to follow suit. Mobility and flexibility are becoming major parts of every industry worldwide, with employees expected to access networks and be able to participate in work without missing a beat. Mobile support is already making its way to the marketplace for the top selling devices, but we can expect to see universal roll out over time.

File system organizer can give your business a much-needed face lift. After being swamped with documents, photos and more, choosing the right management software will help you eliminate waste, consolidate storage, and keep things well organized. While many companies already have some form of file management system in place, there are plenty of new features being added to today's software products to enhance user friendliness and navigation.

## 10. ADVANTAGES

1. This tool is useful in various organization/ institutes to arrange all types of files are organized within a minute.
2. This is also a very user-friendly interface for user.
3. In order to updating we also provide the website which can be accessible by various users to access our tool.
4. File system organizer can bring an organization's documents together in one place for easy accessibility.
5. Beyond rework, not being able to find documents can also contribute to delays on time-sensitive projects. For example, say you have a marketing team that creates ad campaigns for multiple clients. The team must keep track of hundreds of assets—documents, images, videos, etc. Managing these assets without a file management system would be an arduous, time-consuming responsibility.
6. A staggering 83% of employees have to recreate pre-existing documents because they can't locate them on their corporate network. While some documents may take just a few minutes to prepare, many require numerous man-hours to complete.

## 11. CONCLUSION

The File System Organizer organized all the unsorted data in our computer system. This saves a lot of time rather than when we organized manually. User only need to download FSO tool from our website.

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