

# File Organizing System

File Organizing System is a type of system which organize all the different kinds of files in a Directory. In this system all the files having the same extension are grouped together in a new sub directory which help in organizing and managing all the files having different types separately.

**Perquisites:** File System Module in Node js.

## For Files:

### 1. Read a JavaScript file / any kind of file:

```
Let fs = require("fs");
```

```
Let buffer = fs.readFileSync("filename.extension");
```

### 2. Open a File:

```
Let buffer = fs.openSync("filename.ext", "w");
```

### 3. Write File:

- If file is not exists then it will create a new File.
- If there is already a file exists and having content then it replace the content

```
Fs.writeFileSync("filename.ext", "Writing in file");
```

### 4. Update File:

```
Fs.appendFileSync("filename.ext", "Updating in File");
```

## For Directories:

### 5. Create a Directory

```
Fs.mkdirSync("FolderName");
```

### 6. Write in File using Directory :

```
Fs.wirteFileSync("foldername/filename.ext", "This file is created using javaScript");
```

### 7. Delete files from folder:

- First read the directory
- Then delete the files.

```
Let content = fs.readdirSync("FolderName");
```

```
For(let i=0; i<content.length; i++){
```

```
    Fs.unlinkSync("folderName/content[i]); Deleting all files using Loop
```

```
}
```

**8. Delete a Directory :**

`Fs.rmdirSync("FolderName");`

**9. Check Directory exists or not:**

`Fs.existsSync("folderName")` if a file exists at path -> True or False

**10. Check if this is Path of a Directory or a File:**

`Let x = fs.lstatSync(__dirname + "Foldername");` it returns object and then we have to call some functions.

`Let result = x.isFile();` is it a File path?

`Let result = x.isDirectory();` is it a Directory path?

## **How we are going to Do this**

- 1. Get the input -> Directory Path**
- 2. Create -> "OrganizedFiles" directory**
- 3. Identify categories of all the files in that given Directory**
- 4. Copy or Cut files to that organized directory inside of any of category folder**