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From .Net C# technical intervews coding puzzle: In-Memory File System Simulator

Problem Description

Create a simple in-memory file system using C# that allows for the creation, deletion, and querying of files and directories. The file system should support operations to add a file with content, delete files, create directories, list the contents of a directory, and read the content of a file.

Steps to Solve the Problem

1) Define Classes: Create classes for Directory and File with necessary properties and methods.

2) Create File System Class: Implement a FileSystem class that manages the directories and files.

3) Add Operations: Implement methods for creating, deleting, listing, and reading files and directories.

4) Test: Write a few test cases to ensure your file system works as expected.

Bellow attached solution skeleton image.

For full solution please follow Github link: https://lnkd.in/dXsq-RQf

Feel free to extend it or modify it to add more complex functionalities, such as handling permissions or larger I/O operations!

#CodingChallenge #DotNet #TechInterviewPrep #Csharp

```
using System;
using System.Collections.Generic;
using System.Linq;
        public string Name { get; set; }
public string Content { get; set; }
                 Name = name;
Content = content;
        public string Name { get; set; }
public Dictionary<string, File> Files { get; private set; }
public Dictionary<string, Directory> Directories { get; private set; }
                 Name = name;

Files = new Dictionarycstring, File>();

Directories = new Dictionarycstring, Directory>();
                FileSystem fs = new FileSystem();
fs.CreateDirectory("Documents", "Experienced .NET Developer");
fs.CreateFile("Documents/Resume.txt", "Experienced .NET Developer");
Console.Netlection(fs.ReadFile("Documents/Resume.txt")); // Should output the content of the Resume.txt
fs.ListDirectoryContents("Documents"); // Should list 'Resume.txt'
```

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