•Introduction

The FileSystemSimulator is a Java program that builds a simple file system layout based on a tree structure. It arranges files and folders similarly to a regular file system, giving users a chance to practice adding and managing their files and directories.

•Describe what it can do

The app lets users set up files and folders in any selected main folder, arranging everything in a tree-like format. In this setup, folders can hold more folders or files. Additionally, it has an option to show the whole file system in an easy-to-read way.

•Why did you make that kind of application and how does it contribute to you or to the community?

This program acts as a helpful tool for anyone wanting to learn about key programming ideas, especially focusing on data structures like trees, which help in organizing information. It also introduces important aspects such as nodes, recursion, and how to navigate data. By using recursion to look through and show file systems, it helps learners grasp the idea of hierarchical data and how it works in real life. The program encourages personal growth by helping newcomers build essential programming skills, mimics real-world situations through coding, and improves problem-solving and critical thinking. Moreover, it supports the wider programming community by giving a straightforward example of how these concepts are the backbone of more complicated systems, like file explorers and storage tools. This way, it lays down a solid base for students and coding enthusiasts as they step into the world of software engineering.