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Application Name: File Search and Sort

Core concepts and algorithms used in this project:

* Used data structures such as, arrays
* File system
* File path
* I/O exception
* Scanner

For this project three sprints were done to fully complete it. The first sprint was for gathering requirements and sprint planning. The second and third sprints were for developing and testing. During the second and third sprints, we developed the menus and tested them. Then, we went on to develop the print file names in ascending order and tested it. Finally, we undertook the other features, which were searching, adding, and deleting files. While developing these three features, we tested each feature individually. After the three sprints, we had a fully functional console app.

Here are some images and flowcharts of the app.

Text, letter

Description automatically generated

This is the first menu, when you select the second selection it goes to the second menu.

Text, letter

Description automatically generated

This is the second menu, when you select the first option in the menu. You are prompted to enter a name of a new file you would like to create.

Text, letter

Description automatically generated

We can navigate back to the first menu from the second menu. When we choose the first option in the first menu, it will print all the files in the directory.

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Description automatically generated

You can delete a file in the second menu, as shown in the picture above.

Text

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When trying to delete a file that is nonexistent, the program will return failed.

Text

Description automatically generated

When searching for a file in the directory the program will return file is found or file not found depending on if it exists or not.

In conclusion, I would like to enhance this application further in the future by allowing users to be able to read and write to the files. This will help companies digitize all important and relevant documents. Which in turn will make companies more productive and environmentally friendly.

The project git address: [projectone/codeforfiles/src/codeforfiles at main · FatimaAlMufti/projectone (github.com)](https://github.com/FatimaAlMufti/projectone/tree/main/codeforfiles/src/codeforfiles)