

PG FSD Implement OOPS using JAVA with Data Structures and Beyond

Phase-1 Project Specification Document

- Product details:





This is application runs on user's local machine, allows user to interact with OS' file system. It has an interactive welcome page, it can take users' input of menu operation and act accordingly, it also can handle any invalid input gracefully. This application's core module – file operating module can take user's input for directory to work with, it allows users to create, search, delete ad file, also can retrieve all files under working directory and present to user in ascending order by name.

- Sprint details:
 - Sprint planning

Backlog

★ Create Product Backlog entry

Product Backlog

Priority	Story Name	Sprint	Sprint Code Name	Estimated Effort	Story Status	Create task
①	▼ Application Design	①	▼ The Let's see what's it about sprint	20	Done	 New task
②	▼ Algorithm Design	②	▼ The architecture design sprint	20	Done	 New task
②	▼ Implementation	③	▼ The lean end-to-end sprint	40	Done	 New task
③	▼ Testing	⑤	▼ The Let's make sure it works sprint	30	Done	 New task

- Task planning

Share Explore

Tasks Planning

Story	Task	Person	Actual Effort	Task Status	Done	Completion Date
Algorithm Design	Class Structure Design	Xu Sherman	5	Done	✓ Done	Jun 18
Algorithm Design	Design Algorithm	Xu Sherman	5	Done	✓ Done	Jun 17
Application Design	Design User Interface	Xu Sherman	10	Done	✓ Done	Jun 14
Application Design	Design File Operation Module User Interface	Xu Sherman	15	Done	✓ Done	Jun 15
Implementation	Implement Main Menu	Xu Sherman	5	Done	✓ Done	Jun 21
Implementation	Implement File Operation Module Menu	Xu Sherman	5	Done	✓ Done	Jun 22
Implementation	Implement File Operation Module Function - Create File	Xu Sherman	3	Done	✓ Done	Jun 23
Implementation	Implement File Operation Module Function - Search File	Xu Sherman	5	Done	✓ Done	Jun 23
Implementation	Implement File Operation Module Function - Delete File	Xu Sherman	3	Done	✓ Done	Jun 24
Implementation	Implement File Operation Module Function - Retrieve File Names	Xu Sherman	5	Done	✓ Done	Jun 24
Implementation	Implement File Operation Module Function - Change Working Directory	Xu Sherman	3	Done	✓ Done	Jun 24
Testing	Test Main User Interface	Xu Sherman	5	Done	✓ Done	Jun 25
Testing	Test File Operating Module	Xu Sherman	10	Done	✓ Done	Jun 25

- Algorithms and core concepts

There are two algorithms will be adapted on file operating module:

1. Retrieve and present file name in ascending order will store all files' name in a list and present them in alphabetical order, this will be implemented with quick sort.
2. Search a file in working directory: this will take user's file name input and check the file's existence in directory, this will be implemented with linear search technique.

- Links to GitHub

https://github.com/Sherman77/PG_FSD_PHASE_1_Sherman_Xu_Virendra_Sharma/tree/main/Project