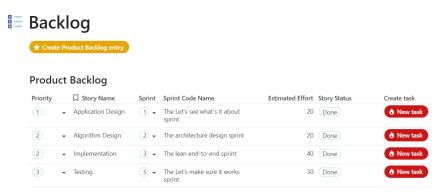
## PG FSD Implement OOPS using JAVA with Data Structures and Beyond Phase-1 Project Specification Document

## • 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



## Task planning

Tasks Planning

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itory	☐ Task	Person	Actual Effort	Task Status	Done	Completion Date
Algorithm Design	<ul> <li>Class Structure Design</li> </ul>	Xu Sherman	<b>y</b> 5	Done	▼ ✓ Done	Jun 18
Algorithm Design	<ul> <li>Design Algorithm</li> </ul>	Xu Sherman	<b>▼</b> 5	Done	▼ ✓ Done	Jun 17
Application Design	▼ Design User Interface	Xu Sherman	<b>▼</b> 10	Done	▼ ✓ Done	Jun 14
Application Design	<ul> <li>Design File Operation Module User Interface</li> </ul>	Xu Sherman	<b>▼</b> 15	Done	▼ ✓ Done	Jun 15
Implementation	<ul> <li>Implement Main Menu</li> </ul>	Xu Sherman	<b>▼</b> 5	Done	▼ ✓ Done	Jun 21
Implementation	<ul> <li>Implement File Operation Module Menu</li> </ul>	Xu Sherman	<b>▼</b> 5	Done	▼ ✓ Done	Jun 22
Implementation	▼ Implement File Operation Module Function - Create File	Xu Sherman	<b>~</b> 3	Done	▼ ✓ Done	Jun 23
Implementation	▼ Implement File Operation Module Function - Search File	Xu Sherman	<b>▼</b> 5	Done	▼ ✓ Done	Jun 23
Implementation	▼ Implement File Operation Module Function - Delete File	Xu Sherman	▼ 3	Done	▼ ✓ Done	Jun 24
Implementation	<ul> <li>Implement File Operation Module Function - Retrieve File Names</li> </ul>	Xu Sherman	<b>→</b> 5	Done	▼ ✓ Done	Jun 24
Implementation	<ul> <li>Implement File Operation Module Function - Change Working Directory</li> </ul>	Xu Sherman	<b>~</b> 3	Done	▼ ✓ Done	Jun 24
Testing	▼ Test Main User Interface	Xu Sherman	<b>▼</b> 5	Done	▼ ✓ Done	Jun 25
Testing	<ul> <li>Test File Operating Module</li> </ul>	Xu Sherman	<b>→</b> 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