

# SEARCH ENGINE

## 1.0 USE CASES

1. Search for a file in the system
2. View File Locations Searched

## 2.0 LEVELS TO CRACK

### Level 1

- Identify the Drives Active and Inactive
- Display the Drives found
- Display a message asking for file name to search

### Level 2

- Search for File Name in each drive
- Display the path if file name is found in console
- Linear Search – Sequential in one drive after another

### Level 3

- Refine your search to enable parallel processing
- Each drive to be searched multi-threaded.
- Implement Exceptions - Generic and Custom
- Display the path if file name is found in console

### Level 4

- Store the Search Results in a file : Search History
- Every Search initiated would now first check in history
- If found, user is presented the file locations from the history
- A new search is initiated if user is not satisfied with results from history

### Level 5

- Write Unit Tests to ensure code quality
- Break down into Unit Testable methods

### 3.0 MENTOR CONNECT

1. Periodic Mentor Reviews will be done
2. Progress to be updated by participants

**ALL THE VERY BEST!!!**