**Specification**

**Background**

Prototype application is required for a budget approval in Company Lockers Pvt. Ltd.

The application uses the Command Line Interface (CLI) and console to interact with the end user.

**Function specification**

Following functions are defined based on the requirements.

**1. Welcome landing menu**

**1.1 List filenames in ascending order**

**1.2 Business-level operation**

**1.2.1 Add a file with user specified name  
 user filename input is non-case sensitive**

**1.2.2 Delete a file with user specified name**

**case-sensitive match, if File-not-found return error**

**1.2.3 Search a file with user specified name**

**exact match search, display search result, success or not-found**

**1.2.4 Return to Welcome landing menu – 1.1**

**1.3 Exit application**

**Sprints Planning**

***Sprint1 ,***

*Produce product function specification according to requirements*

*Document features and user-flow*

*Install and Setup Git, GitHub version control*

*Install and Setup Eclipse IDE*

*User Welcome Start Menu (CLI/Console) programming*

***Sprint2***

- Develop codes for three business operations and return to Welcome menu

-- add a file

-- delete a file

-- search a file

-- close current context and exit to main context

-- close the application via Welcome menu

-- Demonstrate Java Core concepts and algorithms in application codes

ensuring all requirements are covered ( code details to be added):

-Welcome menu,

-- Application name and developer details

-- details of user interface , user interaction info.

-- accept user input to select one of the options

- 1st option, return current file names in ascending order .

Root file can be empty or file or folder in it

- 2nd option,

a) add a file to existing directory list,

ignore the case sensitivity of filenames

b) Delete a file ,

case sensitive

Return message if FNF ( File not found)

c) Search a file

case sensitive on the file to retrieve the correct filenames

display the result on successful search

display not-success if that happened

d) option to return back to main menu

-3rd option,

close application

requirements, using Exceptions, Collections ,Sorting for sourcing code optimization and performance

**Flowchart**

Please see the flowchart **in next page**

**Flowchart**

Welcome Landing Menu

Option1, List filenames in ascending order

Option2, Business Operation...

Option3, Exit the application

Read Option

Option in [1,2,3]?

Err:retry

No

Yes

Option=1,   
 List filenames

Yes

No

List filenames ascending

Option=2,   
 BS.Operation...

Yes

No

Option=3,   
 Exit application

Exit application

BS Operations Menu

Opr1, Add file

Opr2, Delete file

Opr3, Search file

Opr4, Return to Welcome Menu

Opr=1,   
 Add file

Yes

Add file Operation

No

Opr=2,   
 Delete file

Read Op.

Delete file Op.

Yes

Opr=3,   
 Search file

No

Search file Op.

Yes

Opr=4,   
 Return to Welcome

Yes

No

No

No

Yes

No