**Specification Document**

Company Lockers Pvt. Ltd Demo program.

Programmer: **Luis A. Silva Soto**

**Use case Definition:**

* As a user of the system, I want to have a menu with the following options: 1. Retrieve all the files in the directory, 2. Go to a submenu with more operations or 3. Exit the program.
* As a user of the system, I want to have a submenu in which to perform several operations.
* As a user of the system, I want to add a file on the directory.
* As a user of the system, I want to delete a file on the directory.
* As a user of the system, I want to search any file from the directory.
* As a user of the system, I want the program to be able to get the input from the keyboard.

**Github Repository URL:** [Java-FSD-Full-Stack-Luis-Adalberto-Silva-Soto-26145802/Phase1/CompanyLocker/bin/phase1 at main · luisadas29/Java-FSD-Full-Stack-Luis-Adalberto-Silva-Soto-26145802 (github.com)](https://github.com/luisadas29/Java-FSD-Full-Stack-Luis-Adalberto-Silva-Soto-26145802/tree/main/Phase1/CompanyLocker/bin/phase1)

Steps taken to upload into github:

* Created a folder : Java FSD Full Stack-Luis Adalberto Silva Soto-26145802 ( With my Full Name and my Employee ID).
* Navigated to the Folder location in the command line, then started GIT -> git init
* The I configured globally the Username and email ID -> git config --global user.email “[luisadas1@hotmail.com](mailto:luisadas1@hotmail.com)” and git config --global user.name “Luis”
* Added remote server (Github) into git -> git remote add origin <https://PersonalToken@github.com/luisadas29/Java-FSD-Full-Stack-Luis-Adalberto-Silva-Soto-26145802.git>
* I renamed the branch name to Main -> git branch -M main
* Add the file into the staging area and commit them with comment ->git commit -m "Final Project"
* Lastly I pushed the commits to github -> git push --set-upstream origin main

**Diagram Flow of the program :**



**Sprint Planning**

Two sprints where planned if 1 week and half each.

1)The first Sprint

- Included the Development of the Diagram Flow to understand the intended flow program.

- Decision to have a Main Menu and a Submenu for the more complext operations. 3 classes where planned to be developed for the program.

- Development of the Class Menu.

2) The Second Sprint

- Development of the File Operations Class. This Class included the methods required by the requirements/use cases defined.

- Methods included in the File Operation Class : retrieveFiles(), addFile(), deleteFile(), search() and findFile().

- The Method findFile() was developed to reuse code needed for addFile() and deleteFile() and search().

- Exception handling was also coded in this sprint.

- Testing of the application was done, finding some errors in the logic of the program and tackling them.

**Concepts used:**

**-** Loops / Do Whiles and FOR

- If/Else

- Exception handling.

- Methods within a class.

- IO package, File

- Sorting techniches and collection framworks : Arrays , SortedSets and TreeSets.

**Possible Enhancements to the Product**

- Creating a GUI to the program, with a more moden look.

- Ability to open Files and modify them.

- Ability to change the directory in which the user wants to create the files.