Project 1 Report

Our program is a knowledge repository, it functions solely on the command line user interface. The program has a main menu and a few sub menus such as:

```
Welcome to the Knowledge Depository

Please Select from the following options:

Press 1 to view information pages.

Press 2 to create a new information page.

Press 3 to change admin password.

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Press 3 to change admin password.

Ny make is Declambetails.txt

Press 4 to delete file.

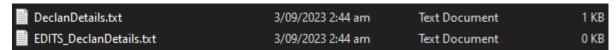
Press 4 to delete file.
```

There is also an administrator lock feature that only allows users with a password (in this program "Admin") to create, edit, or delete information.

Admins can:

- Create new information pages.
- Edit existing information pages.
 - Find and replace information in a specific page.
 - o Or append new information to a specific.
 - Delete a specific page. (And its 'EDITS_' file)

Our program works by managing a small database of text files that contain information and their corresponding 'EDITS_' files which contain a record of every time a text file is edited (through the program) You will notice in the relative directory of the Java project; each text file has a corresponding 'EDITS_' file. (DeclansDetails.txt will have an edits file named EDITS_DeclanDetails.txt made at creation, provided the user uses the program through the CLI to create the file)



Every time an edit is made through the program using the CLI, a record is added to the corresponding 'EDITS_' files.

Edits made by Admin at: 02:50:25 03-09-2023 *APPENDED DATA:*

I like to play video games and Software Contruction is my favourite class! End of edit.

For planning purposes, we created a few mock up menu screens and built out program upon that.

Main Menu contents: Welcome to the knowledge databasel please select from the following options: Press 1 to view files. Press 2 to create a text file. (Admin permission required) Press 3 to delete a text file. (Admin permission required) Press X to exit the program. A will show a submenu that lists all text files B will create a text file (********.txt) AND a EDITS ******.txt file Choose a file: Press 1 for: text.txt Press 2 for: bradley.txt Press 8 to go back. Press X to exit the program. You have selected "text.txt", would you like to: Press 1 to view the file. Press 2 to view the summary. (Stored in metadata) Press B to go back. Press B to go back. Press X to exit the program. Please select from the file. (Admin permission required) Press 1 to edit the file. (Admin permission required) Press 2 to diffile metadata. (Stored in document class variables) Press 2 defit file metadata. (Stored in document class variables) Press 3 to delete the document. (Are you sure screen?) Press B to go back.

Contribution and program breakdown

program breakdown	
Bradley	Declan
GroupProject.java - Main function of program (loop) - Instance of GroupProject.java stores the Admin password - Instance of AbstractFile is stored in the instance of GroupProject.java - Using polymorphism and inheritance, the program switches between modes (CreateFile, DisplayContents and EditFile) on request.	EditFile java (Polymorphic Mode of AbstractFile) Extends AbstractFile java. Only users with an admin password have access to editing. EditFile has the functionality of finding/replacing information or appending new information to the file. EditFile also has to functionality of deleting Files and their corresponding edits file.
CreateFile java (Polymorphic Mode of AbstractFile) Extends AbstractFile java When a new file is created, a mirror file for edit history is also created. (Software txt would have another file paired with it called EDITS_Software.txt, these files are not visible in the CLI or editable from the CLI)	AbstractFile java - Contains a variable File type that stores the File path of the current file. - Using encapsulation, AbstractFile can return either the path of the current file or the path of the current file or the path of the current file with path of the current file and the path of the current file and inherited by the other functions.
ListFiles java Simply print out the list of the filtered documents (EDITS_ files are hidden).	
DisplayContents java (Polymorphic Mode of AbstractFile) Extends AbstractFile Sets the current file path Displays the contents of a selected file. Sets the contents of the current file path stored in the superclass of AbstractFile to the file the user wishes to view. Displays the contents of either the file or the 'edits' version of the file depending on the arguments passed through to it.	
Contribution: 50%	Contribution: 50%

Finally, we used Git Version control and GitHub to collaborate on the program together and provide us with a solution if we needed to rollback to a previous version of the program.