

Project 1 - Virtual Key for Your Repositories

- ★ File handling in Java is defined as reading and writing data to a file. The particular file class from the package called `java.io` allows us to handle and work with different formats of files. Thus, if we want to use a file class, we need to create an object of that particular class and should specify the filename or directory name.
- ★ In Java, a File is an abstract data type. A named location used to store related information is known as a File. There are several File Operations like creating a new File, getting information about File, writing into a File, reading from a File and deleting a File.
- ★ Create a File operation is performed to create a new file. We use the `createNewFile()` method of file. The `createNewFile()` method returns true when it successfully creates a new file and returns false when the file already exists.
- ★ The next operation which we can perform on a file is "writing into a file". In order to write data into a file, we will use the `FileWriter` class and its `write()` method together. We need to close the stream using the `close()` method to retrieve the allocated resources.
- ★ The next operation which we can perform on a file is "read from a file". In order to write data into a file, we will use the `Scanner` class.
- ★ The next operation which we can perform on a file is "deleting a file". In order to delete a file, we will use the `delete()` method of the file.
- ★ Searching files in Java can be performed using the `File` class and `FilenameFilter` interface. The `FilenameFilter` interface is used to filter files from the list of files. This interface has a method `boolean accept(File dir, String name)` that is implemented to find the desired files from the list returned by the `java.io.File.list()` method.

Sprints planning and Task completion

The project is planned to be completed in 1 sprint.

Tasks assumed to be completed in the sprint are:

- Initializing git repository to track changes as development progresses.
- Writing the Java program to fulfill the requirements of the project.
- Testing the Java program with different kinds of User input
- Pushing code to GitHub.
- Creating this specification document highlighting application capabilities, appearance, and user interactions.

Core concepts used in project, File Handling, Flow Control, Exception Handling.