import java.util.List;

public interface FileSystemKernel extends Standard {

```java
/**
 * Creates a new file with the given name and type.
 *
 * @param name The name of the file to be created.
 * @param type The type of the file (e.g., TEXT, IMAGE, etc.).
 * @ensures A new file with the specified name and type is created.
 */
void createFile(String name, FileType type);

/**
 * Deletes the file with the given name.
 *
 * @param name The name of the file to be deleted.
 * @ensures If a file with the specified name exists, it is deleted.
 */
void deleteFile(String name);

/**
 * Retrieves the file with the given name.
 *
 * @param name The name of the file to retrieve.
 * @return The file with the specified name, or null if not found.
 * @ensures If a file with the specified name exists, it is returned.
 */
File getFile(String name);

/**
 * Creates a new directory with the given name.
 *
 * @param name The name of the directory to be created.
 * @ensures A new directory with the specified name is created.
 */
void createDirectory(String name);

/**
 * Deletes the directory with the given name.
 *
 * @param name The name of the directory to be deleted.
 * @ensures If a directory with the specified name exists, it is deleted.
 */
void deleteDirectory(String name);

/**
 * Retrieves a list of all files in the file system.
 *
 *
```

```
     * @return A list containing all files in the file system.
     * @ensures A list of all files in the file system is returned.
     */
    List<File> listFiles();


    /**
     * Renames the file with the specified old name to the new name.
     *
     * @param oldName The current name of the file.
     * @param newName The new name for the file.
     * @ensures If a file with the specified old name exists, its name is
    changed to the new name.
     */
    void renameFile(String oldName, String newName);
```

}