

Phase 1 - Step 4: Feature/Bug Fix Descriptions

Change Request #1: Fix Export Filename Bug

Type: Bug

Description: The program crashes or shows undefined behavior when the user inputs invalid characters in the filename (e.g., '/', '?', '*').

Proposed Fix: Add input validation to the filename and display an error if invalid characters are found.

Justification: Prevents unexpected crashes and improves user experience.

Target Class(es): `TextEditor.java`

Change Request #2: Add Word Count Feature

Type: Feature

Description: Currently, users can't see how many words their document has. Add a dynamic word count display in the status bar.

Proposed Fix: Implement `getWordCount()` method, add a `JLabel` in the bottom panel, and update word count on each text change.

Justification: Useful and standard feature in modern text editors.

Target Class(es): `TextEditor.java`

Change Request #3: Refactor Repeated File I/O Code

Type: Enhancement

Description: File open/save/export logic is duplicated across several files. This violates the DRY principle.

Proposed Fix: Create a utility class `FileUtils.java`, and move common methods like `readFromFile()` and `writeToFile()` there.

Justification: Enhances maintainability and reduces code duplication.

Target Class(es): `FileManager.java`, `TextEditor.java`

Change Request #4: Add Dark Mode Option

Type: Feature

Description: Many users prefer working in dark mode to reduce eye strain.

Proposed Fix: Add a menu item "Toggle Dark Mode" and switch background/foreground colors of text area and menu bar accordingly.

Justification: Improves usability and user comfort, especially during long sessions.

Target Class(es): `TextEditor.java`