

Project Report: Simple Text Editor

Introduction:

The Simple Text Editor is a basic text editor program that was developed as a part of a 5-day individual project. The goal of the project was to create a lightweight and easy-to-use program that allows users to create, edit, and save text files.

Development Process:

The development process of the Simple Text Editor was divided into several stages:

Planning: In the planning stage, I researched the features and functionality of existing text editors to understand the user requirements. Based on the research, I created a list of essential features that should be included in the program.

Design: In the design stage, I created a basic design layout of the program's user interface. I used Java Swing to create the graphical user interface (GUI) and implemented the necessary components such as buttons, text areas, and menus.

Implementation: In the implementation stage, I wrote the code for the program's functionality. I used Java programming language to implement the various functions such as creating new files, opening existing files, saving files, and cutting, copying, and pasting text.

Testing: In the testing stage, I tested the program's functionality to ensure that it is working as expected.

Challenges and Solutions:

During the development process, I faced several challenges. The major challenges were as follows:

Implementing the "Save As" feature: Initially, I found it challenging to implement the "Save As" feature, which allows users to save files with a new name. However, I was able to overcome this challenge by using the Java FileChooser class to implement the file selection dialog box.

Implementing the status bar: Another challenge was implementing the status bar, which displays important information such as the number of words, lines, and characters in the text area. However, I was able to overcome this challenge by creating a separate class to handle the status bar's functionality.

Conclusion:

The Simple Text Editor is a basic text editor program that was developed in 5 days. The program allows users to create, edit, and save text files. During the development process, I faced several challenges, but I was able to overcome them through research and experimentation. Overall, the project was a great learning experience, and I was able to gain a better understanding of Java programming and GUI development.