ADVANCED NOTEPAD

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Abstract - *Text editors are desktop applications which help the users to open, save, modify or edit their files for efficient documentation. Notepad is one of the most used and basic one among all text editors. It saves the file with the ".txt" extension. It is a most common text-editor as well as an essential component for personal computers but its usage is decreasing day by day due to lack of efficient features. Therefore, to overcome the flaws of Notepad, this research paper focuses on adding some advanced features in the original application to make it more efficient to use.*

*Key Words***: Notepad , text-editors, desktop application, advanced features , GUI**

1. INTRODUCTION

Text-editors are computer programs which help the user to store, share, open, save, and print their data in the form of files. The first text-editor was a full screen editor known as O26 which was written for an operator console in 1967. Notepad was developed by Microsoft in 1983. The current Notepad application is very basic and simple, due to which its usage is decreasing day by day. Over the past few years, various desktop applications have been developed which are more advanced than the current notepad application, but as this application is developed by Microsoft it is still used by almost all the companies for documentation and coding purposes as well. The basic ideology of the advanced notepad is to provide users with some advanced features like background colors, font colors etc. to make it more efficient to use.

1.1 LITERATURE REVIEW

After reviewing research papers, following features have been newly added in notepad application.

1) In "EDIT" Menu Item Time/Date option has been added to insert Time and date automatically.

2) Whenever the file is opened, notepad automatically inserts a timestamp on the next line

3) "Go To" line command has been added in the EDIT option which makes it more efficient and smarter to use.
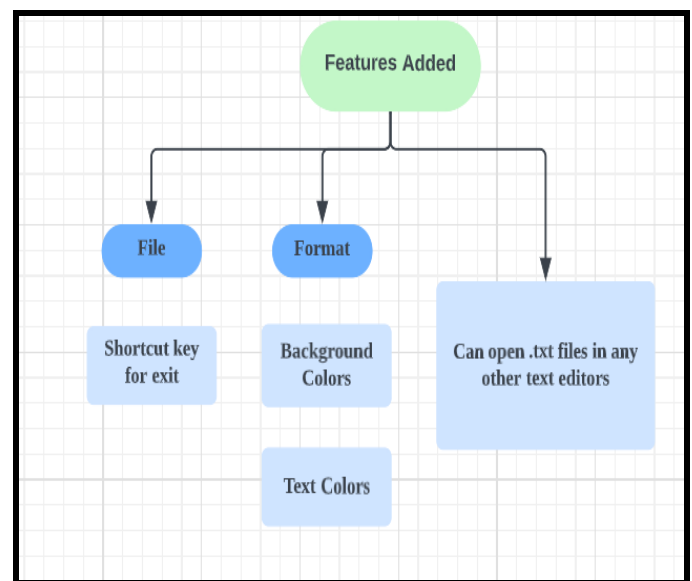
Particularly, in this project, Core Java has been used (J Frame) which makes use of Event Handling . Java has already predefined various Listeners for each awt component which carries out the required actions.
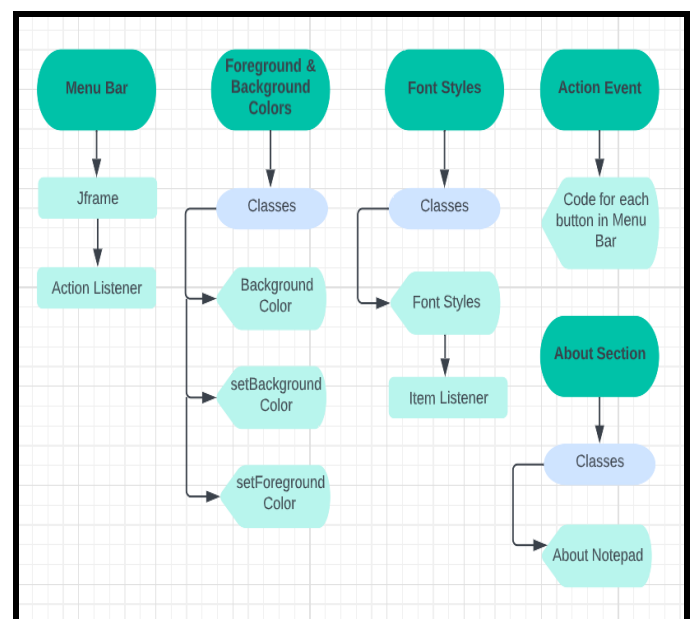
2. METHODOLOGY

TOOLS: ECLIPSE IDE

TECHNOLOGY: JAVA

New Features Added:

Flow of the code:

2.1 METHODS AND MATERIALS

1)AWT Package (Abstract Window Toolkit)

It includes all the classes and subclasses for creating a user interface. It provides us with all GUI components like button, scrollbar, text field, label, Checkbox, list, Choice, Text Area.

2) Event Handling:

Event Handling refers to the execution of a particular event when it is notified or clicked. For eg. In my application for every task a button is assigned, so whenever I click that button, that particular event which is assigned to that button should be executed. For not only buttons but for every component in awt event handling takes place, but for the execution of the event to be executed we need Listeners which are responsible for generating response to an event.

3)Listeners:

Event Listeners are responsible for handling every event in the GUI application. For every component in which awt package offers, a different listener is assigned. In this project I have made use of the following listeners.

   a)Action Listener –Button

   b)Item Listener –Item State

4)Inheritance:

It is a property of java in which a user is able to inherit the properties of the parent class into the child class. Java does not support multiple inheritance. To apply Inheritance "extends" keyword is used.

3. CONCLUSIONS

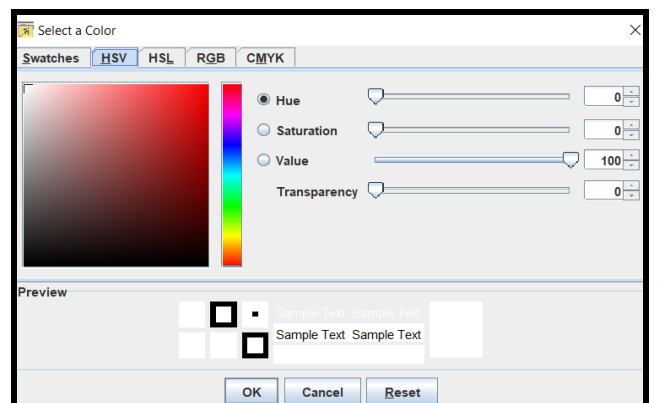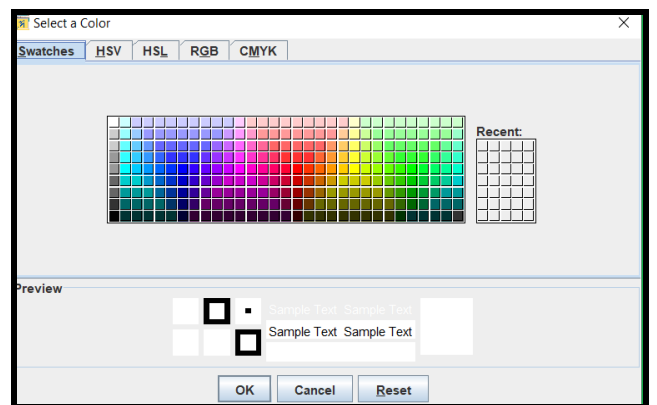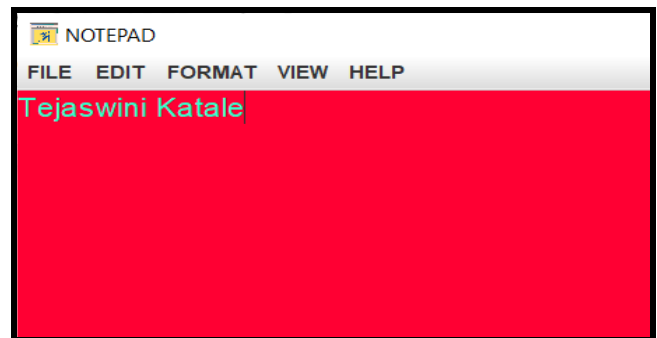Following 5 new features have been added in Advanced Notepad Application.

1. Shortcut key for Exit Option.
2. Background Colors
3. Text Colors
4. Have access to open ".txt files" in other text editors as well.
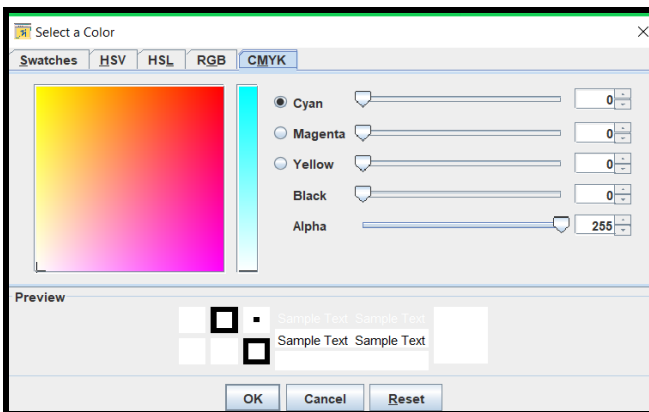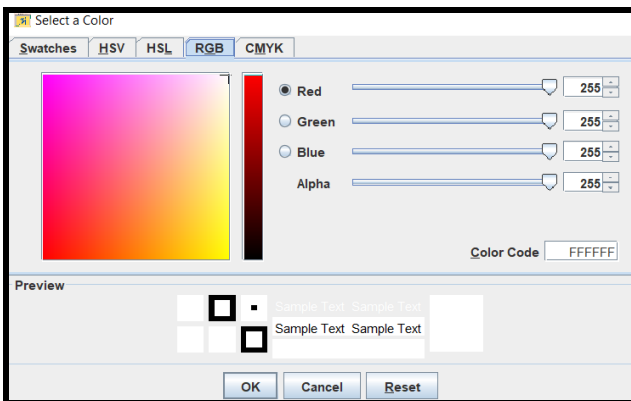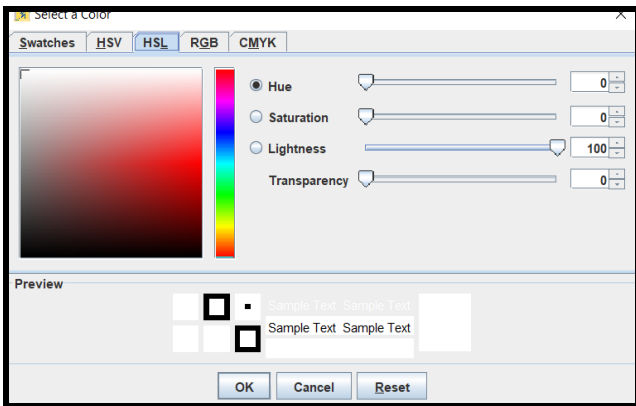5. Modified "About Section".

Pictorial Representation:

1.Shortcut for Exit Option

2.Background and Text Colours

3. CONCLUSIONS

Notepad is a very efficient and a useful application in day-to-day life but on the same note we also have to accept the fact that its usage is gradually decreasing day by day because of the limited features. In this project, Java is used to perform event handling on different awt components, which made the coding easier and faster. Along with the older features, by adding these 5 new features it can be called an Advanced Version of Notepad.

REFERENCES

[1] "Text Editor based on Google Trigram and its usability"- 2010 Fourth UKSim European Symposium on Computer Modeling and Simulation- Myung Won Hwang, Dongjin Choi, Junho Choi , Hyogap Lee, Pankoo KimM. Young, The Technical Writer's Handbook. Mill Valley, CA: University Science, 1989.

[2] "Virtual Notepad: Handwriting in Immersive VR" -IEEE 1998 Virtual Reality Annual International Symposium (Cat. No.98CB36180) - Ivan Poupyrev , Numada Tomokazu , Suzanne Weghorst .K. Elissa, "Title of paper if known," unpublished.

[3] "Performance Evaluation of Virtual Desktop Operating Systems in Virtual Desktop Infrastructure" -2017 IEEE Conference on Application, Information and Network Security (AINS)- Pedram Hossein Nakhai, Nor Badrul Anuar.

[4] "Multi User Text Editor Data Structures Organization" - 2019 III International Conference on Control in Technical Systems (CTS)- Roman E. Spiridonov; Sergey A. Akentev; Kirill S. Ilin; Pavel S. Chigvintsev.

[5] "Blocks and Text Integration in a Language-Based Editor for a Domain-Specific Language"- 2017 International Conference on Computer Science and Engineering (UBMK) - Enes Altuncu, Burak Kaan Bilgehan, Yavuz Selim Kartal, Sercan KÕzÕlgüneú, Mahdi Saeedi Nikoo, and Hali