Minor Project- Report
June-2022-2023
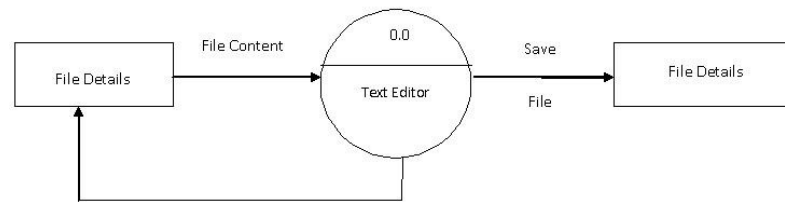
Course Faculty: Prof. Nagaraj   Course Name & code: System Software & 19CS6DLSSL

Semester: VI   Date: 13th June, 2023
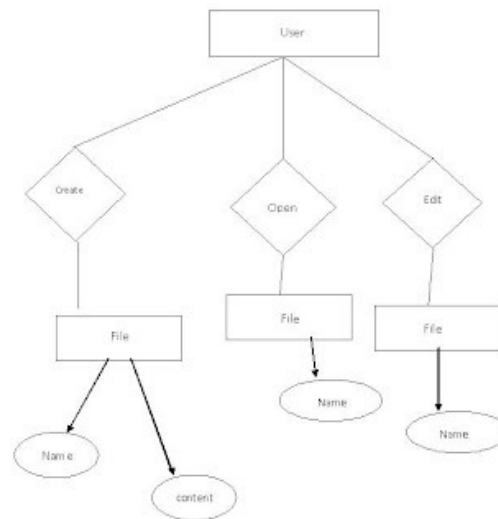
TITLE OF THE PROJECT	Text Editor Implementation			
STUDENT NAME	Abhinav Kumar Jha	Adit Pal Singh	Aditi	Aditya Kunal
USN	1DS20CS003	1DS20CS007	1DS20CS008	1DS20CS010
INDIVIDUAL CONTRIBUTION	Implementation of adding and reading files.	Implementation of creating file and deleting file.	Implementation of listing file.	Implementation of emptying and copying file.
GUIDE	Prof. Suman Gowda			
PROJECT ABSTRACT :	This project implements the process of text editor. It's an application which creates a file, edits a file and stores it in a particular location. It is very much essential to be aware of all records. Now in this application C language is used for editing process. The objective of the proposed system are to create a new file, edit it and save it in corresponding location. The input to the application is the name of the file, input to the file etc. The output is the editing of the file under specific conditions.			

INTRODUCTION	This project is an implementation of the Text Editor using C/C++ language. It results in the specification of software's operational characteristics, indicates software's interface with other system elements and establishes constraints that software must meet. The aim of analysis is to understand the problem with a view to eliminate any deficiencies in the required specification such as inconsistencies, incompleteness. The model which we are trying to build may be or may not be ready.
DESIGN	Software design deals with transforming the customer requirements, into the form that is suitable for implementation in a programming language. A good software design is seldom arrived by using a single step procedure but rather through several iterations through a series of steps. Design activities can be broadly classified into two important parts: ● Preliminary (or high-level) design and ● Detailed design The aim of design is to produce a model that will provide a seamless transition to the coding phase, i.e. once the requirements are analyzed and found to be satisfactory, a design model is created which can be easily implemented. Characteristics of a good software design: ◆ **Correctness** : This application has got a perfect design that will correctly implement all the functionalities . ◆ **Understandability**: Our application is easily understandable. ◆ **Efficiency**: Our application is highly efficient. ◆ **Maintainability**: it is easily amenable to change.

	Data flow diagram :

Entity Relation Diagram :

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PLATFORM USED (H/W & S/W TOOLS TO BE USED	**Visual Studio Code**
PROJECT SOURCE CODE LINK (GITHUB/ GOOGLE DRIVE)	**https://github.com/akj0712/Text-Editor**
CONCLUSION /FUTURE ENHANCEMENT	Many other features such as switching to different directories and open all the files of other directories will be implemented.

UI SCREENSHOTS

```
Welcome to Text Editor

Main Menu
-------------
1. Create File
2. Add to File
3. Read from File
4. Empty File
5. Delete File
6. Copy File
7. List Files
8. Exit

Enter Choice:
```

```
Main Menu
-------------
1. Create File
2. Add to File
3. Read from File
4. Empty File
5. Delete File
6. Copy File
7. List Files
8. Exit

Enter Choice: 2

Enter name of file: adit

Enter text to write to file: (Enter END to complete)
Hello guyss , I am Adit Pal Singh Sasan
END
```

```
File Emptied Successfully

Main Menu
-------------
1. Create File
2. Add to File
3. Read from File
4. Empty File
5. Delete File
6. Copy File
7. List Files
8. Exit

Enter Choice:
```

```
File Copied Successfully

Main Menu
-------------
1. Create File
2. Add to File
3. Read from File
4. Empty File
5. Delete File
6. Copy File
7. List Files
8. Exit

Enter Choice:
```

```
≡ aditi2.txt
  1    Hey everyone. This is Aditi. I
       am glad that I can present in
       front of you
  2
```

```
≡ aditi3.txt
  1    Hey everyone. This is Aditi. I
       am glad that I can present in
       front of you
  2
```

```
≡  adit.txt
≡  aditi.txt
≡  aditi2.txt
≡  aditi3.txt
≡  aditya.txt
≡  akj.txt
C+ Text-Editor.C
≡  Text-Editor.exe
C+ Text-Editor2.C
≡  Text-Editor2.exe
≡  Text.exe
```

```
Main Menu
List of Files:
adit.txt
aditi.txt
aditi2.txt
aditi3.txt
aditya.txt
akj.txt
Text-Editor.C
Text-Editor.exe
Text-Editor2.C
Text-Editor2.exe
Text.exe

Main Menu
-------------
1. Create File
2. Add to File
3. Read from File
4. Empty File
5. Delete File
6. Copy File
7. List Files
8. Exit

Enter Choice: █
```