



B.TECH. (CSE)

V SEMESTER

UE20CS303 –SOFTWARE ENGINEERING

PROJECT REPORT

ON

ADVANCED TEXT EDITOR-PYTHON

SUBMITTED BY

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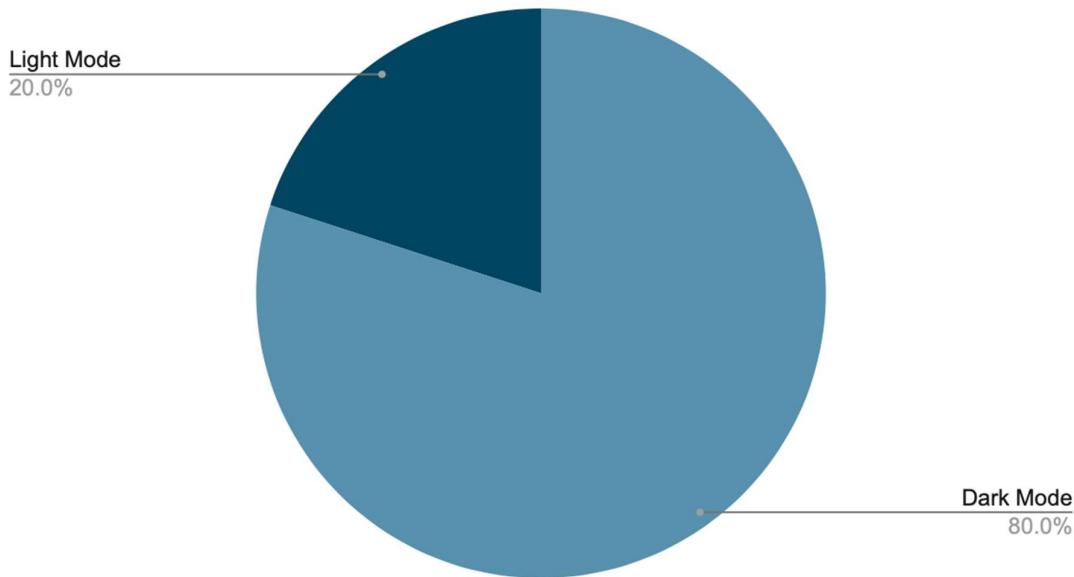
PROJECT PROPOSAL

We have decided to take an existing notepad text editor and improve it into a word processor. This word processor will be able to handle tasks such as 'Find And Replace', 'Chart', 'Diagram', etc.

We will also provide options for developers to code in python. In-built indentation (An important python feature) will also be released in upcoming versions.

User Interface is given a very high priority. By studying customer review and feedback, we have arrived at the following analysis.

User Interface Preference



Hence, it is important for us to incorporate multiple themes for different users to work with.

We have decided to build a complete project and release the product into the market. Most Agile projects are around 3 to 6 months long. If a product needs more development time than this, the product will be released in quarterly cycles -- with one version being released each quarter. So we decided to abide by agile framework because the changes can be handled at any time in the later stages.

The usual users of our software are naive users, python programmers and general programmers and students.

Functional Features:

What the user will be able to perform with your system are listed below:

- Find and Replace.
- Cut, Copy and Paste

- Ability to handle UTF-8 encoded text.
- Text Formatting.
- Undo and redo.
- Line wrap.
- Comment formatting.
- Syntax highlighting.
- Source Code Editor.

Plan of work and product ownership:

At each step of deployment a regression testing phase will be undertaken to make sure that the functionality is working properly.

In this project we are planning to use python. At this stage we are planning and soon we will start with development efforts.

The team would be divided to work on each module. Each of the team members will play separate roles during the development of their modules. They would act as a leader, team members and QA person for different sections of the module.

Once their modules are developed, they will be responsible as a team in performing integration with other modules developed in parallel by other teams.

A feasibility study will be conducted if the deployment of a web-based UI is feasible. If financial, physical and time constraints are satisfied, this feature will also be delivered.

During this process they will be performing integration testing to make sure that all the modules get plugged-in properly.

At each step of deployment a regression testing phase will be undertaken to make sure that the functionality is working properly.

Reference:

1. Common features we are aiming at

<https://haroldpboas.gitlab.io/courses/math696/common-features-of-text-editors.html>

Software Requirements Specifications

Is Crucial To Your Business.

Learn Why!



Software Requirements Specification

Software Requirements Specification (SRS)

for

TEXT - EDITOR

Version 2 approved

Prepared by the team of ‘TEXT EDITOR’

RRRS Pvt. Ltd.

29-10-2022



Text Editor

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Revision History

Name	Date	Reason For Changes	Version
SRS 1.1	11-09-2022	To introduce the plan of the text editor.	1.1
SRS 1.2	29-09-2022	Adding Functionalities	1.2
SRS 1.3	11-10-2022	Changes to UI	1.3
SRS 2	29-10-2022	Final Commit	2

1. Introduction

1.1 Purpose



This product “The Text Editor Version no. 1” is a software on which this

complete documentation is all about. This document discusses the complete description and working of the end software. All system constraints, functionalities and elements included in the system are explained in detail. By using this documentation, developers can collaborate in order to shape the project to the final specification or they can extend the boundaries of the system for further demand.

This document gives a clear idea of :-

- Usage of the software.
- Prerequisites for the product to work in different computing environments.
- Types of users associated with the product.

This document is divided into 6 different chapters. Each chapter guides you through the description of the product.

1.2 Document Conventions

Formatting (of Document) Conventions:

- The font style for the headings of each section is **Times New Roman** and the font size is 12 for description
- The font style for the headings under each section is **Times New Roman in Bold** and the font size used is 17.
- Coloured fonts are used to describe highlighting components in the documentation.
- Italics or underline has been used to indicate comments and notes.
- Bullet points used to represent steps or sequence.

1.3 Intended Audience and Reading Suggestions

1.3.1 Intended Audience:

This document is primarily intended for the:

- Naïve or common users .
- Coding developers to code for their projects.
- Users who want to work with analytics and represent a graphical output.
- Software developers who can further improve the product.

1.3.2 Document Overview:

- The first chapter, that is the Introduction section of the document is intended to introduce the reader to the product, i.e. The text editor.
- The second chapter, Overall Description section of the SRS document provides an overview of the overall functionality of the product. It describes the informal requirements.
- The third chapter, Specific Requirements section, is for the developers to further understand the technical specification of the product.
- The fourth chapter deals with the external interface requirements.
- The fifth & sixth chapter deals with other non – functional requirements and miscellaneous requirements.

1.4 Project Scope

This software helps people mainly in :-

- Writing texts and including flow-charts and clip arts.
- Writing codes and highlighting syntax.
- Providing different views and settings depending on the user.
- Option to save the files in the format they like.

This tool helps users in various ways, like preparing a list, or helps for documentaries. Apart from that it also helps users to perform many utilities like searching, find and replace, text-highlighting, etc...

1.5 References

<https://youtu.be/CCj1mG2jWKM>

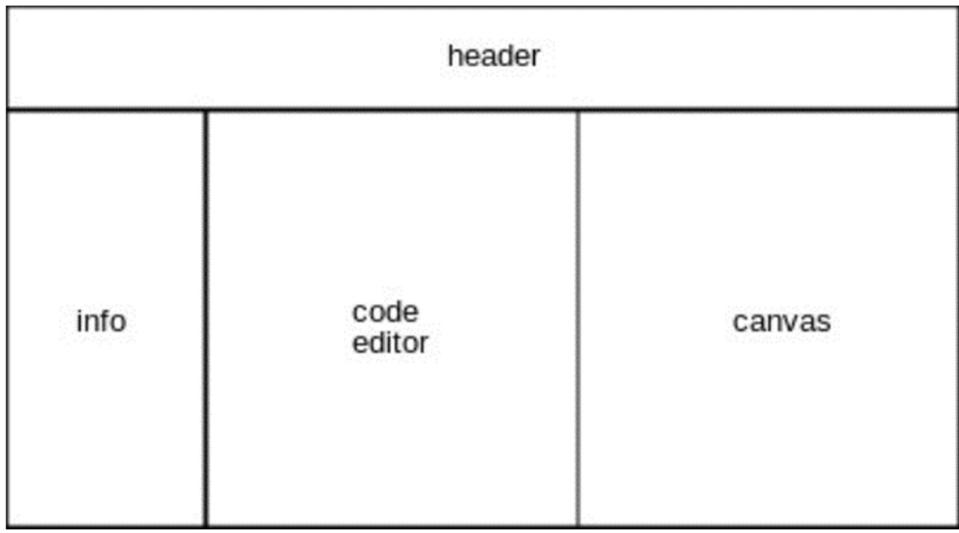
<https://youtu.be/mFdGV8C9o1k>

<https://youtu.be/z-3skIYjVbA>

2. Overall Description

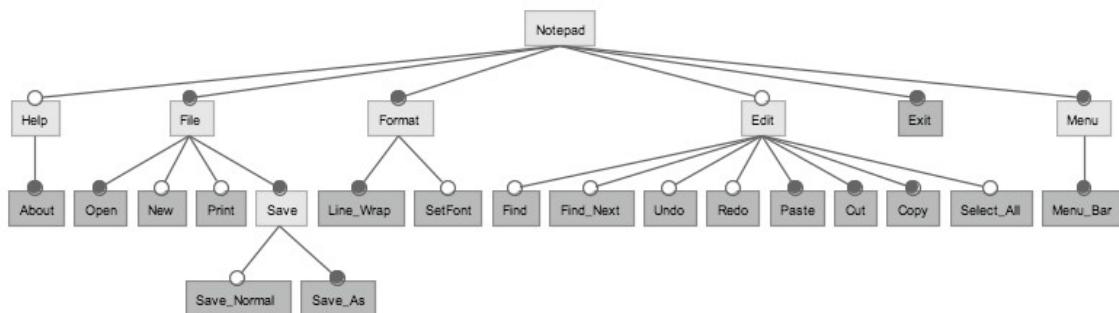
2.1 Product Perspective

This text editor software will help people to type in a GUI view and gives easy access to use various functionalities.



The software aims to be primarily divided as shown in the above figure. This text-editor is very simple for users who are not even familiar with the usage of computer systems. Since this is menu driven, users will have a lot of options confronting them. The functionalities by this software are very professional such as highlighting text, spell-check, inserting flowcharts and cliparts and many more in addition to naïve text editing.

2.2 Product Features



This product itself speaks for its many of the functionalities such as :-

- File operations to save, open, etc...
- Cursor motion and highlighting.
- Cut and paste
- Search and replace
- Customization and coding framework.
- Clip arts and flow charts

2.3 User Case, Classes and Characteristics

2.3.1 User classes



The system will support these user privileges :-

- Developer
- Naïve user
- Illustrator
- Future software developer to add more functionalities to this editor
- Product owner to decide the future capabilities and investments to this product.
- Testers, for rigidity.

2.3.2 User cases and characteristics

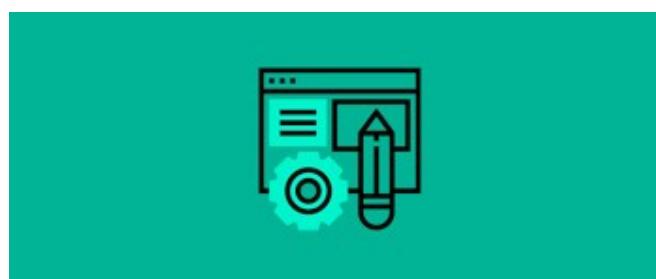
In order to present what these use cases are actually for, their overall roles in the project, the actors related to them and the relations between them are briefly explained in the table below.

Use-case Name	Description
Develop	Develop a custom DGP algorithm in the environment. IDE offers a robust text editor for this purpose.
Step-by-step Debug	Detect the logical errors the custom algorithm may have by classic stepby-step debugging technique
Visual Debug	Detect the logical errors the custom algorithm may have by visual debugging technique
Compare algorithm	Compare the behaviour of the custom algorithm with a known, already implemented one
Use DGP API	Develop a custom DGP algorithm in the environment by an offered, easy-to-use API
Customise IDE	Change predefined settings for the IDE (through preferences) for the suitable working environment

2.4 Operating Environment

The software will be designed to work on any version of Windows, Linux (kernel 2.7 and above) and Mac platform.

2.5 Design and Implementation Constraints



This software enables different views for different varieties of users. Like, for example, an user who simply types can use the regular views , for developers, a coding view, etc.... Therefore, the design is implemented such that it is flexible.

Some of the constraints are :-

- Editor should be a use-once environment. That is, only user preferences are held in the file system, therefore only the changes in preferences are remembered between two successive runs.
- Editor should not let access to calls for all legacy libraries through its lifetime.
- Editor should have one scene at a time.
- Editor should always be initialised to an empty scene.
- Editor should not depend on the operating system.

2.6 User Documentation

Tutorials will be provided in the upcoming versions, which includes various product descriptions.

2.7 Assumptions and Dependencies

Assumptions

The user is familiar with normal typing with the text editor and knows the basic functionalities and settings of any text editor.

Dependencies : As mentioned in the operating environment and demands decent hardware specifications.

3. External Interface Requirements

3.1 User Interfaces

The text enable provides the following UI features:

- a) Find and Replace.
- b) Cut, Copy and Paste.

- c) Ability to handle UTF-8 encoded text.
- d) Text Formatting.
- e) Undo and redo.
- f) line wrap.
- g) comment formatting.
- h) syntax highlighting.
- i) Source Code Editor.

3.2 Hardware Interfaces

The editor can be used in all Personal computers (PC) and Laptop Notebooks or any other system that supports Heroku to run the App.

3.3 Software Interfaces

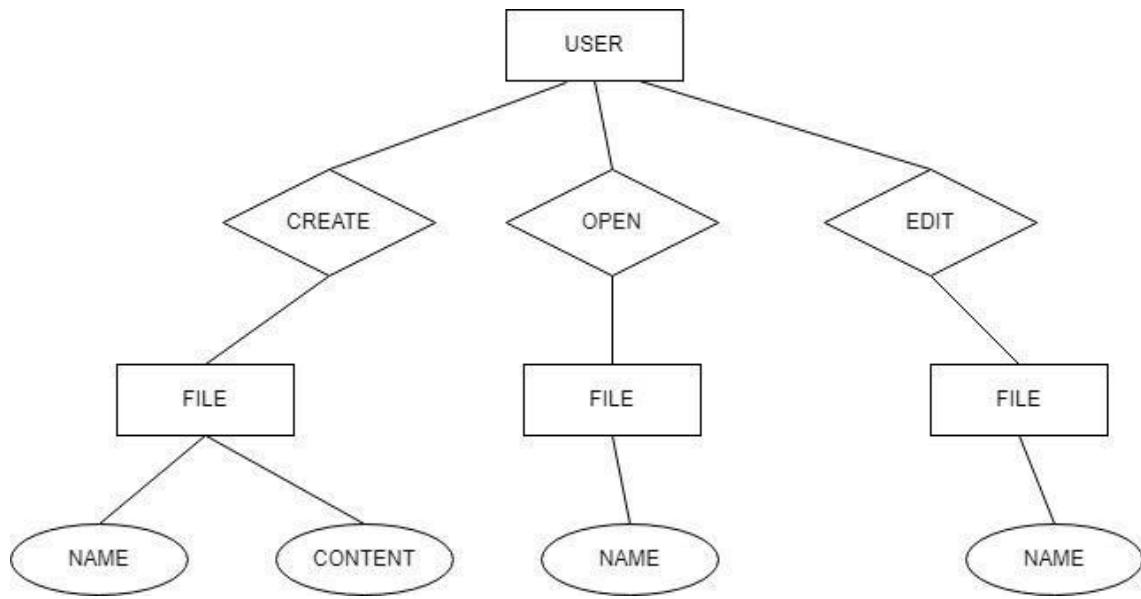
The editor is built using python and .config files are used to beautify the text editor . Required python inbuilt and other external modules will be used in the development.Finally heroku will be used to deploy the Text editor.

3.4 Communications Interfaces

The app will be deployed using Heroku so it can run on the local system or on any cloud based platform.

4. Analysis Models

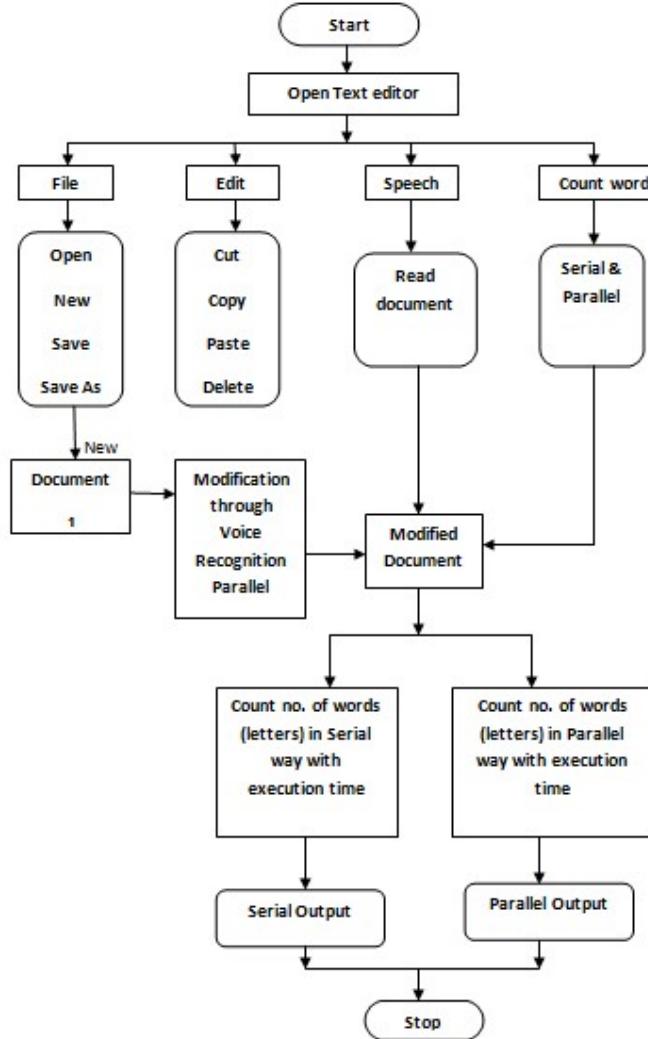
4.1 ER Diagram



4.2 UML



Data Flow Diagram for Text Editor

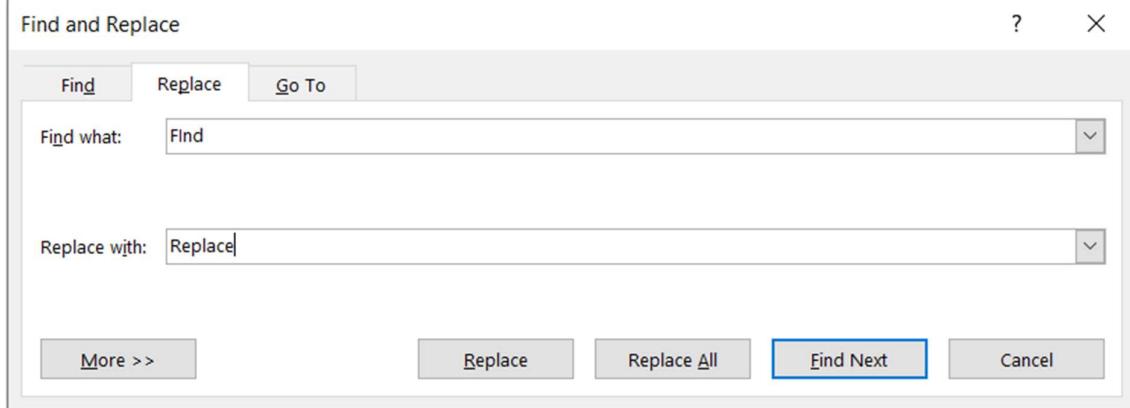


5. System Features

5.1.1 Features

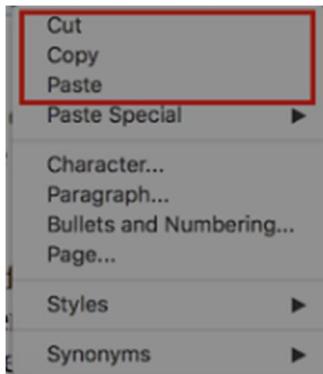
Feature 1) Find and Replace: Allows you to find all similar words and replace it with required word,

Priority: High



Feature 2) Cut, Copy and Paste: Allows the user to cut, copy and paste a word , text in the editor.

Priority: High



Feature 3) Ability to handle UTF-8 encoded text: Large text can be stored in UTF-8 encoding and can be brought back to string when needed

Priority: Medium

Web Options

?

X

Browsers

Files

Pictures

Encoding

Fonts

Encoding

Reload the current document as:

Save this document as:

Always save Web pages in the default encoding

OK

Cancel

Feature 4)Text Formatting: Allows you to change style, size and color of text.

Priority:High

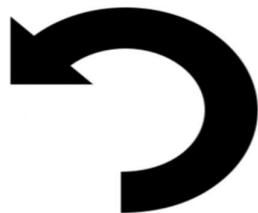
Times New... ▾

- 12 +

B I U A

Feature 5)Undo and redo: Allows you to undo and redo on the editor

Priority:High



Undo



Redo

Feature 6)Line wrap: This user allows user to write text in multiple lines

Priority: High

This sentence is an example of word wrap and an example of how the text will wrap.

This sentence is an example of word wrap and an example of how the text will wrap.

Feature 7)Comment formatting: Enable comments in the editor

Priority : Medium

with the overall look of your document.

bles, headers, footers, lists, cover pages, and other document
e you create pictures, charts, or diagrams, they also coordinate
can easily change the formatting of selected text in the document
d text from the Quick Styles gallery on the Home tab. You can also
controls on the Home tab. Most controls offer a choice of using

Comment [m1]: Typos and gra
need fixed before the deadline

Feature 8)Syntax highlighting & Source Code Editor.

Priority : Medium

```
get area() {  
    return this.calcArea();  
}  
// Method  
calcArea() {  
    return this.height * this.width;  
}  
}  
  
const square = new Rectangle(10, 10);
```

5.1.2 Stimulus/Response Sequences

An user can be able to click on the various buttons, highlight a text, open a menu, scroll the screen, hover on some menus, etc...

5.1.3 Functional Requirements

They are :-

- Change User Preferences
- Develop Algorithm
- Use DGP Specific API
- Analyse Algorithm
- Debug Step by Step
- Use Visual Debugger
- Profile Algorithm
- Reference Output Comparison

6. Other Nonfunctional Requirements

6.1 Performance Requirements

Pauses, hangs and slow responses result in the tool interrupting the task at hand. Whenever possible, we should respond immediately to user input.

If the user closes the text editor with a file open after opening the text editor again it shows the file.

It has multiple interfaces, it shows normal text files and python code.

Separates the actual keyword from variable by making it colourful as shown below,

```
1 import pandas as pd
2 import numpy as np
3
4
5
6 def add_2(x, y):
7     return x + y
8
9
10
11 print(add(5, 6))
```

6.2 Safety and Security Requirements

Security risk in extensible text editors enables hackers to abuse plugins and escalate privileges.

This Editor helps to keep the code when the user closes the editor unexpectedly.

The plugins that we add to the text editor are made by our team and it will not be the third party plugins. Review 3rd party plugins code before approving their use in the network environment.

Folder permissions are to entirely separate the plugin folders that are used when running the editors in elevated models.

Deny write permissions for non-elevated users, by taking root ownership on the relevant plugins folder.

6.3 Software Quality Attributes

Usability of a user its ease, it based on principle KISS(Keep It Simple Stupid) and it is user friendly. As it can be used by a normal person as a text file or python code editor.

Reliability between user and software will be good because we are using Agile changes are accepted.

Portability of the software, it can be used in any operating system.

Scalability, the system will handle the demand for stress caused by increased usage without decreasing performance.

Flexibility, the software has the ability to change the future as we are using the Agile framework.

Additional Software Quality Attributes are Testability, Reusability, Maintainability, Supportability, Interoperability, Performance and Security.

6.4 Business Rules

The first release of the text editor will consist of a single user interface. Hence, a single user will have master control.

In the subsequent pipeline releases, we plan to release a multi-user interface for a document. This allows multiple users to create and edit a document or code in real-time.

In a multi-user interface, there are certain business rules that have to be implemented.

One of the main features is Read-Write access.

For example, in a Professor-Student or Author-Editor environment, we will provide limited access and functionality control to one user and master control to the other.

Upon expanding we can then classify each functionality based on user type and build a table. This will help to enforce customised business rules based on user requirements.

7. Other Requirements

7.1 Auto-Indenting

One of the most important features of a python programming environment is indentation. Tab/Space errors in python indentation will lead to errors.

Hence, it is an important customer requirement to add auto-indentation feature which will eliminate the possibility of customer physically indenting each line.

Version 1 of this feature will be available as a preview for programmers. Based on customer feedback and suggestions, this feature will be made available to all in later releases.

7.2 Auto-Saving

One of the other major customer requirements is that - in case of a sudden failure of the application or any other unforeseen circumstances, the data is auto-saved and backed up.

A cloud-based framework will be integrated in future releases to allow for auto-saving of the work done within a given Time-Based Refresh Rate.

This provides a back-up to the user to continue their work in case of crash/failure.

Appendix A: Glossary

UTF-8: A variable-width character encoding used for electronic communication. Defined by the Unicode Standard, the name is derived from Unicode (or Universal Coded Character Set) Transformation Format – 8-bit. UTF-8.

Line Wrap: is breaking a section of text into lines so that it will fit into the available width of a page, window or other display area.

Configuration Files: They are files used to configure the parameters and initial settings for some computer programs. They are used for user applications, server processes and operating system settings.

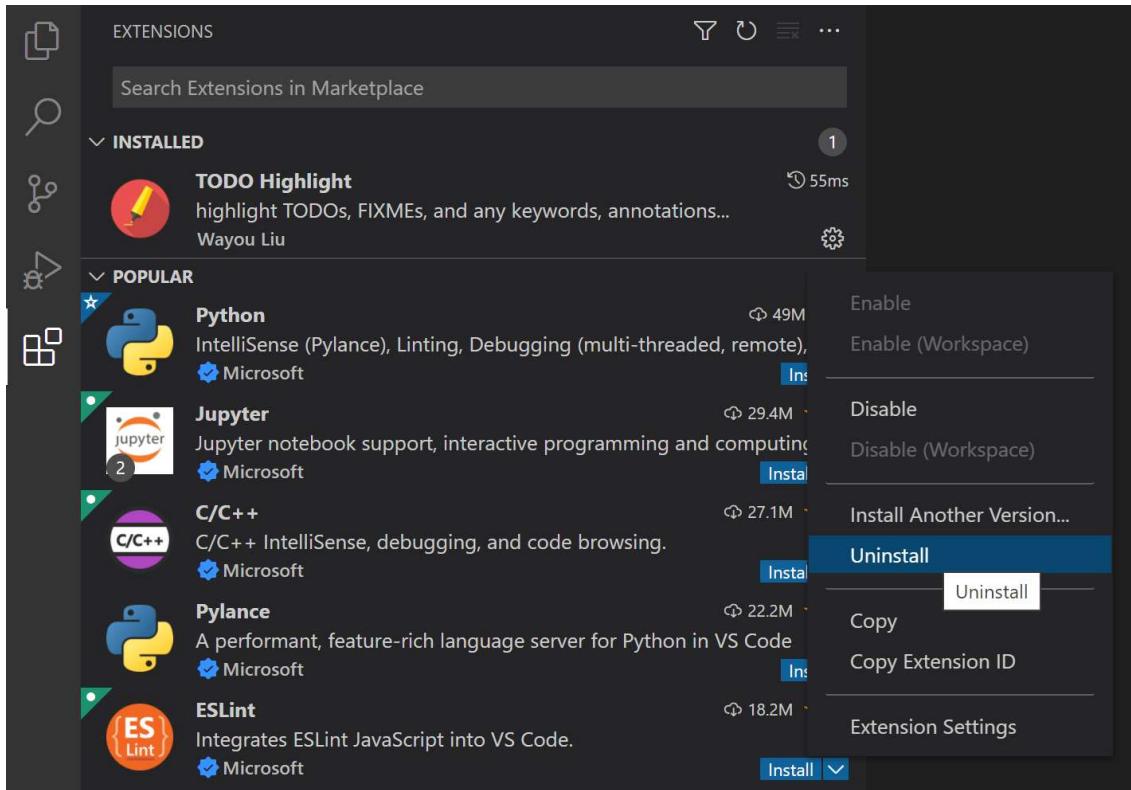
Heroku: A cloud-based development platform as a service (PaaS) provider. Paas means Product as a Service.

Below is a list of definitions, acronyms and abbreviations required to interpret this document properly.

DGP	Digital Geometry Processing
CGI	Computer Generated Imagery
API	Application Programming Interface
IDE	Integrated Development Environment
GUI	Graphical User Interface

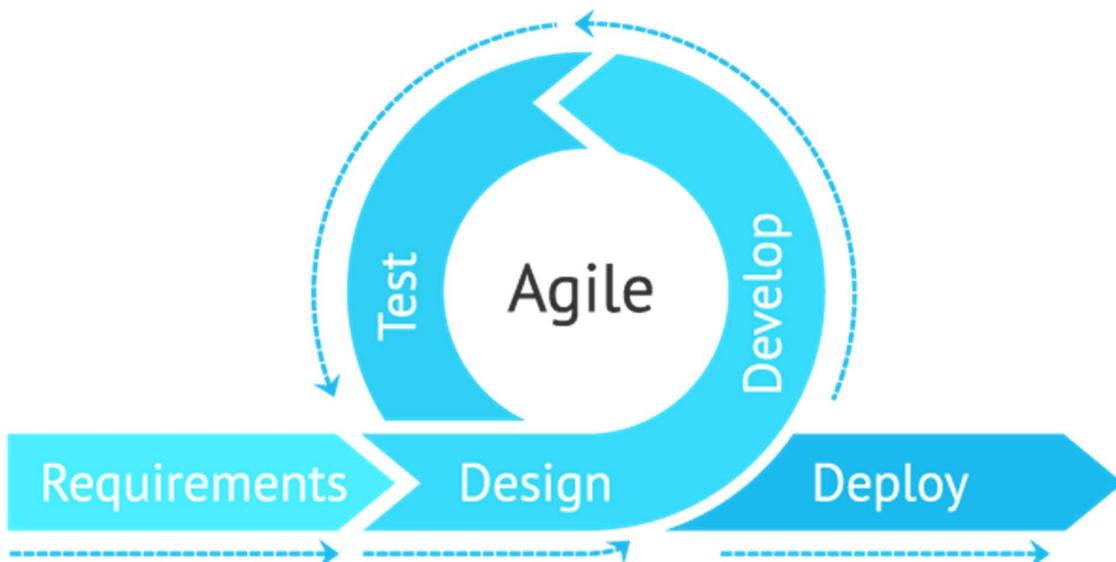
SRS	Software Requirement Specification
SDD	Software Design Document
SSD	Step by Step Debugger
WYSIWYI	What you see is what you implemented
EU	End User
UML	Unified Modelling Language
editor	Code Editor (Text Editor, are used interchangeably) (software component)
canvas	Interactive 3D Canvas (software component)
info	Info (software component)
header	Header (software component)
profiler	Profiler (software component)
debugger	Step by Step Debugger (software component)
output	Anything written to Info is output
mesh	A data structure in computer graphics
vertex	A data structure in computer graphics

Plugins or 3rd party plugins are things that are used to make the user's job easier. As shown in the following image:



Keep it simple, stupid (KISS) is a design principle which states that designs and/or systems should be as simple as possible.

An Agile framework is a specific approach to planning, managing, and executing work. The changes are welcome at any stage.



Appendix B: Field Layouts :-

As discussed in the above cases. Will produce a detailed explanation on the attributes on customer demands.

Appendix C: Requirement Traceability Matrix

Will be done, once testing phase starts.

Sl. No	Requirement ID	Brief Description of Requirement	Architecture Reference	Design Reference	Code File Reference	Test Case ID	System Test Case ID
1	2001	Requirement of concurrent technique to play audio just after typing out the text.	As provided above	As provided above	application.py	TC_11	1001

TEAM CONTRIBUTION (SRS)

TASK	NAME	SRN
SRS 3,4,5	ROHIT ROSHAN	PES1UG20CS355
SRS 1,2 Appendix A	S M SUTHARSAN RAJ	PES1UG20CS362
SRS 6,4,7 Synopsis	ROHAN C	PES1UG20CS345
SRS 5, 6, Appendix B Synopsis	RAHUL ROSHAN G	PES1UG20CS320

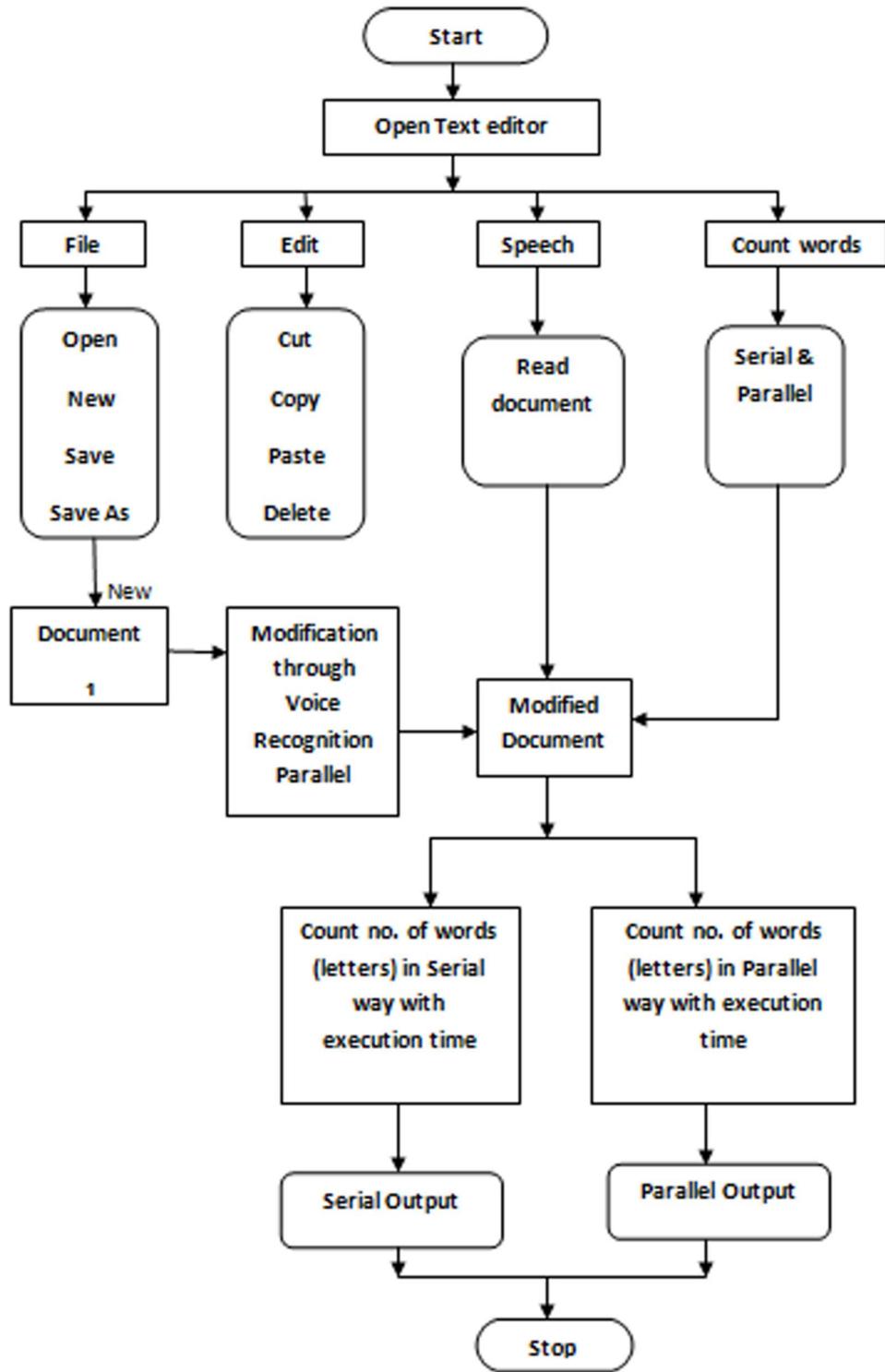
PROJECT PLAN

WBS :

Sprints	OCT	NOV
TEA-1 Analyse which platform for GUI and start intial phase of coding		
TEA-2 Testing a previous programs or code on different GUI platform.	TO DO S M SUT...	
TEA-3 Design a WireFrame	TO DO S M SUT...	
TEA-6 Create an main window where text editor is created	TO DO S M SUT...	
TEA-28 Collect all the icons for the app.	TO DO ROHITROSH...	
TEA-29 Create an text or manual to the user how to use text editor.	TO DO ROHITROSH...	
TEA-30 Get Information for adding images and charts in GUI.	TO DO ROHITROSH...	
TEA-8 Implementing basic needs or operations of text editor		
TEA-9 Create a New file	TO DO ROHAN C	
TEA-10 Open a file	TO DO ROHAN C	
TEA-11 Implement save and save as operation	TO DO ROHAN C	
TEA-12 Add a print operation	TO DO ROHAN C	
TEA-13 Create a Quit button	TO DO ROHAN C	
TEA-14 Create a paste, cut, copy option	TO DO ROHAN C	
TEA-15 Create a redo, undo and clear all option	TO DO ROHITROSH...	
TEA-16 Create an mathematical operation	TO DO ROHITROSH...	
TEA-17 Create a option to print the date and time in text editor	TO DO ROHITROSH...	
TEA-18 Create an Find, find and replace operation.	TO DO ROHITROSH...	
TEA-19 Implement an Regex operation.	TO DO ROHITROSH...	
TEA-20 Adding the "Help" option and other extra feature.		
TEA-21 Create an about window(mean page).	TO DO RAHUL R...	
TEA-22 Help user to show all shortcut keys used.	TO DO RAHUL R...	
TEA-23 Search button to find a word	TO DO RAHUL R...	
TEA-24 Highlight the selected text.	TO DO S M SUT...	
TEA-25 Implement Bold, italics, underline, cross the word and align text.	TO DO S M SUT...	
TEA-4 Adding an Additional Feature		
TEA-5 Create an different color for main window	TO DO RAHUL R...	
TEA-6 Add Font Style from user's System	TO DO RAHUL R...	
TEA-7 Add Font size	TO DO RAHUL R...	
TEA-27 Create an different moods of theme,	TO DO S M SUT...	

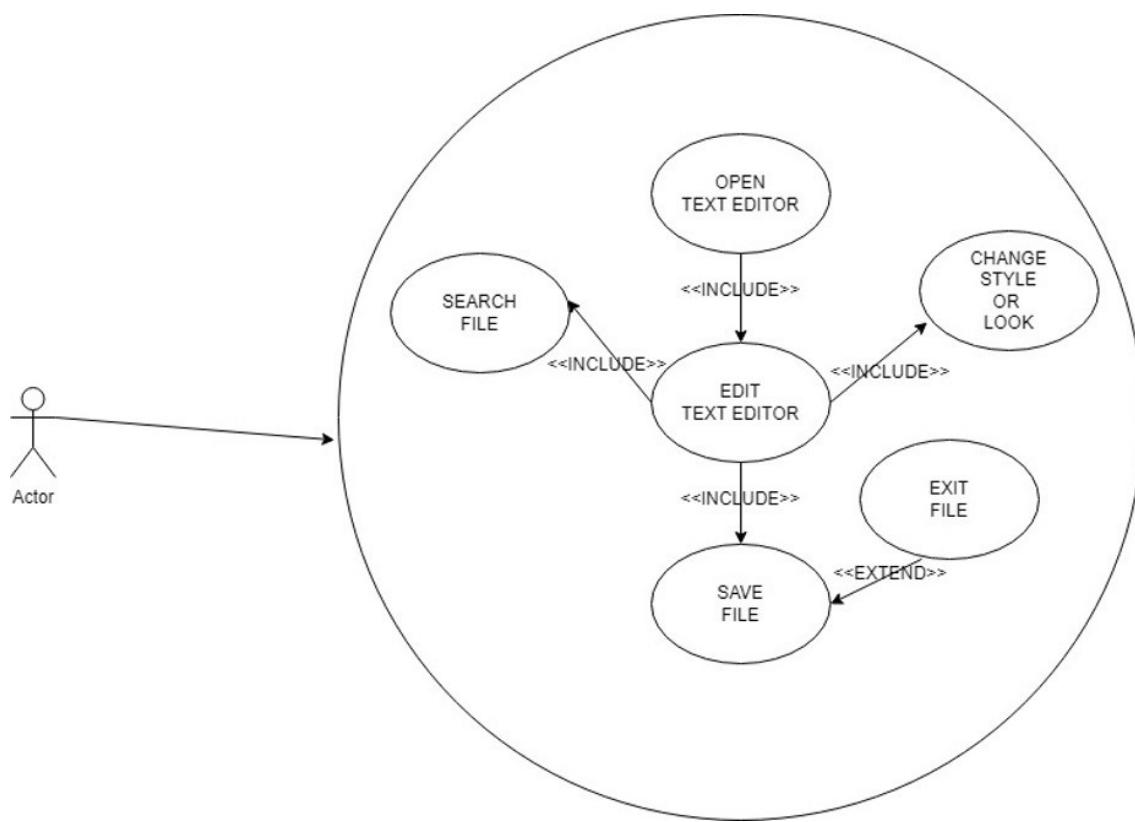
DESIGN

Data Flow Design (DFD) Diagram:



DESIGN

Architectural Design/Unified Modelling Language Diagram:



TEST DOCUMENT :

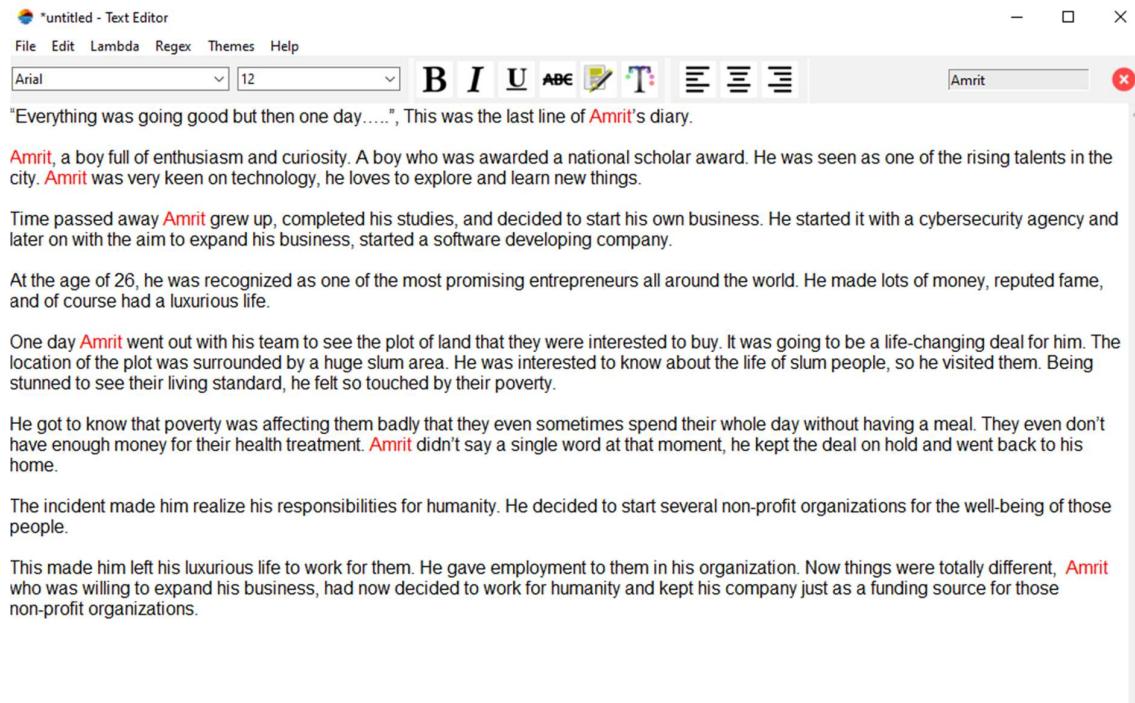
Template of a Test case:

Test Case ID	Name of Module	Testcase description	Pre-conditions	Test Steps	Test data	Expected Results	Actual Result	Test Result
TC_1	Bold	Check if the text can be bolded with the short key CTRL+B.	Access to the text editor	Hit Ctrl + B	HELLO	HELLO	HELLO	Pass
TC_2	Italics	Check if the text can be italicise with the short key CTRL+I	Access to the text-editor	Press Ctrl+I	HELLO	'HELLO'	'HELLO'	'HELL O'
TC_3	Underline	Check if the text can be underlined with shortcut CTRL+U	Write access to text editor	CTRL+U	This is underline	<u>This is underline</u>	<u>This is underline</u>	<u>This is underline</u>
TC_4	Save	Check if text can be saved by the editor	Access to the editor.	Press Ctrl+S	Complete File	File Saved	File Saved	File Saved
TC_5	Find and replace	Find and Replace is a function in Word that allows you to search for target text and replace	Write access to editor and some set of valid	CTRL+H	Sun Shine (We shall replace shine)	Sun Set	Sun Set	Replaces the character rise with set

		it something else.	with character s		with rise)			
TC_6	Regex	if user provides an regex for an word or character it finds sequence of different characters	Access to text editor and some text to find using regex.	Ctrl+R	/bhello	“1 match found” and highlighted with red colour.	“1 match found”	It matches all the results which are given by the user. The test case is passed.
TC_7	Welcome Audio	A welcome voice to the text editor on opening the text editor	Open permission to the text editor	Run the text editor	-	A voice telling “Your text editor is open”	Working as expected	Pass
TC_8	Text Alignment	The selected cursor and its area should align left, right or middle according to the button clicked.	Appropriate position of the cursor to be placed.	Write some text preferably and click either of the 3 buttons for the alignment.	HELLO	(Middle) HELLO < (Left Aligned) HELLO - >(Right Aligned) HELLO	Working as expected. The middle alignment needs to be justified even more	Pass
TC_9	Exit Full screen	The editor which was displayed in full screen can be minimised	Editor in read or write mode	Escape Key	A file in full screen	A file minimised	A file minimised	The given option minimises the screen size on

								pressing the escape key
TC_10	New file	Opens a new file	A text editor	CTRL+N	A empty editor or an existing open folder	Creates a new file	Created a new file	Ctrl+N creates a new file on the editor
TC_11	Convert text to audio	After saving a file with its contents an audio file on the contents is to be saved.	A text file with the saved contents	After typing out the contents click on the print option.	Your typed out text	An audio file reading the contents of the file	Working as expected, but concurrent playing is disabled	Pass
TC_12	Sum, count, average of numbers	Calculates the average, sum and count the number of occurrences of each number.	access to text editor and integer values in the text editor	Some text with integer values.	integer value like 1,2,3	average is 2 count of 2 is once sum of all values are 6	average is 2 count of 2 is once sum of all values are 6	Test case passed.

OUTPUT SCREENSHOTS



"Everything was going good but then one day.....", This was the last line of Amrit's diary.

Amrit, a boy full of enthusiasm and curiosity. A boy who was awarded a national scholar award. He was seen as one of the rising talents in the city. Amrit was very keen on technology, he loves to explore and learn new things.

Time passed away Amrit grew up, completed his studies, and decided to start his own business. He started it with a cybersecurity agency and later on with the aim to expand his business, started a software developing company.

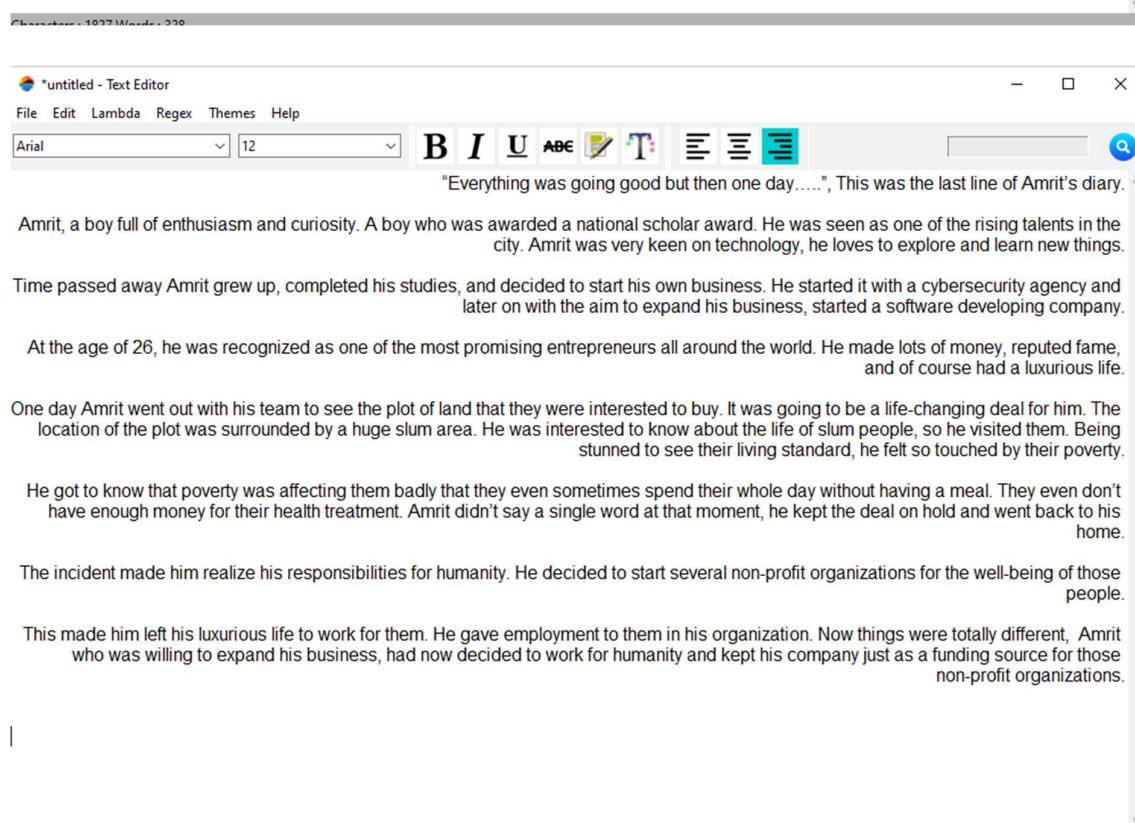
At the age of 26, he was recognized as one of the most promising entrepreneurs all around the world. He made lots of money, reputed fame, and of course had a luxurious life.

One day Amrit went out with his team to see the plot of land that they were interested to buy. It was going to be a life-changing deal for him. The location of the plot was surrounded by a huge slum area. He was interested to know about the life of slum people, so he visited them. Being stunned to see their living standard, he felt so touched by their poverty.

He got to know that poverty was affecting them badly that they even sometimes spend their whole day without having a meal. They even don't have enough money for their health treatment. Amrit didn't say a single word at that moment, he kept the deal on hold and went back to his home.

The incident made him realize his responsibilities for humanity. He decided to start several non-profit organizations for the well-being of those people.

This made him leave his luxurious life to work for them. He gave employment to them in his organization. Now things were totally different, Amrit who was willing to expand his business, had now decided to work for humanity and kept his company just as a funding source for those non-profit organizations.



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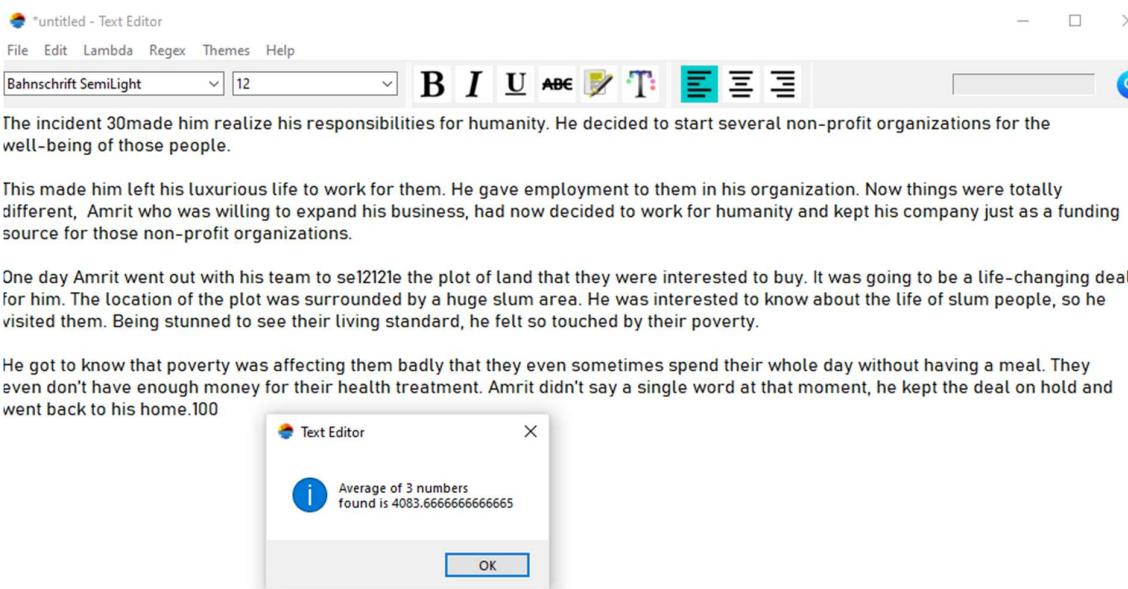
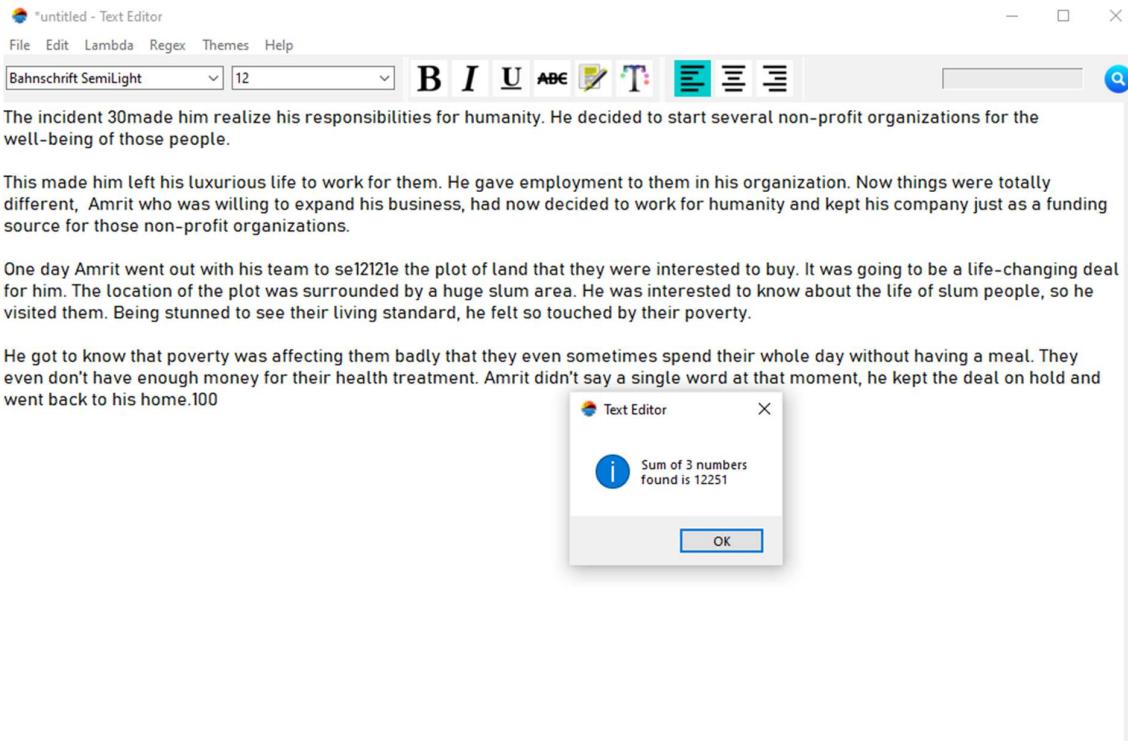
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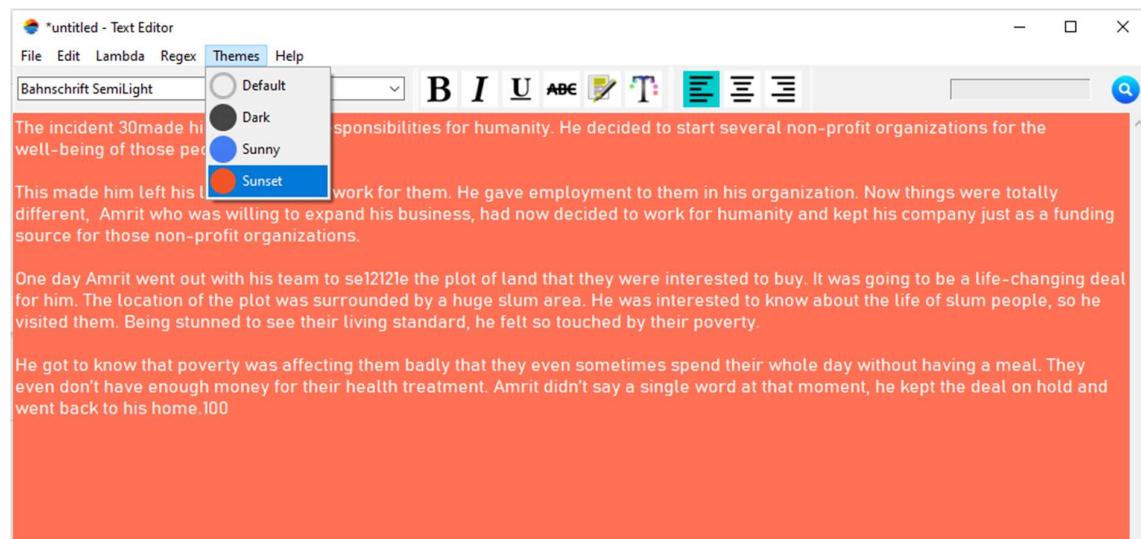
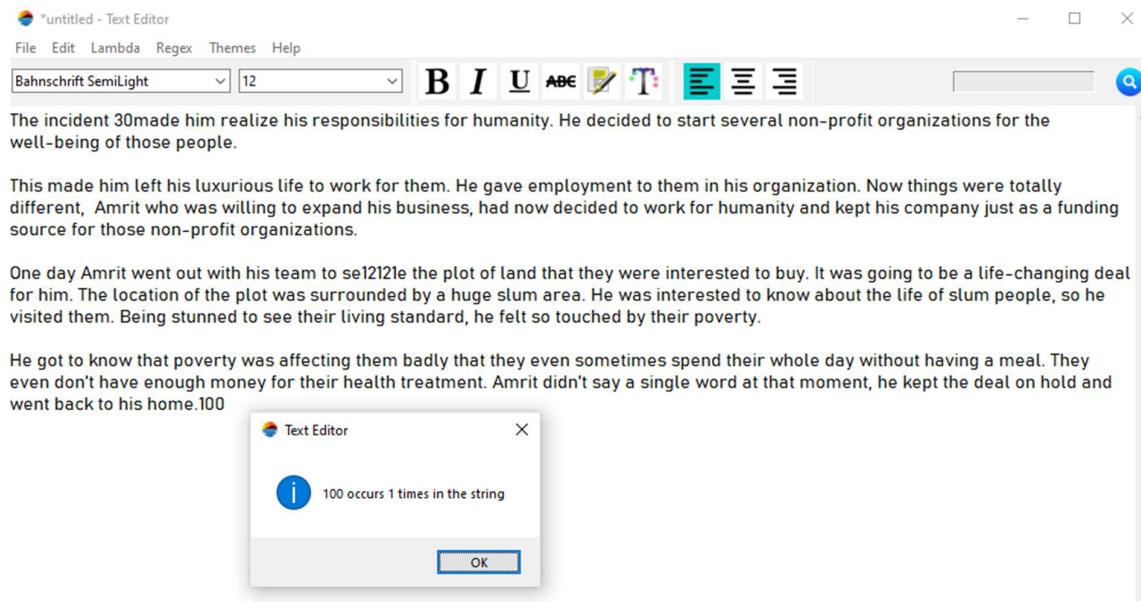
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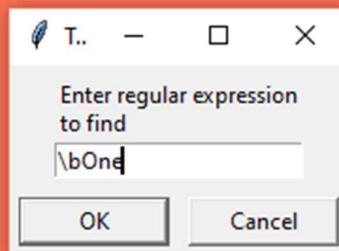
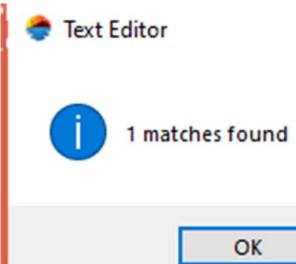


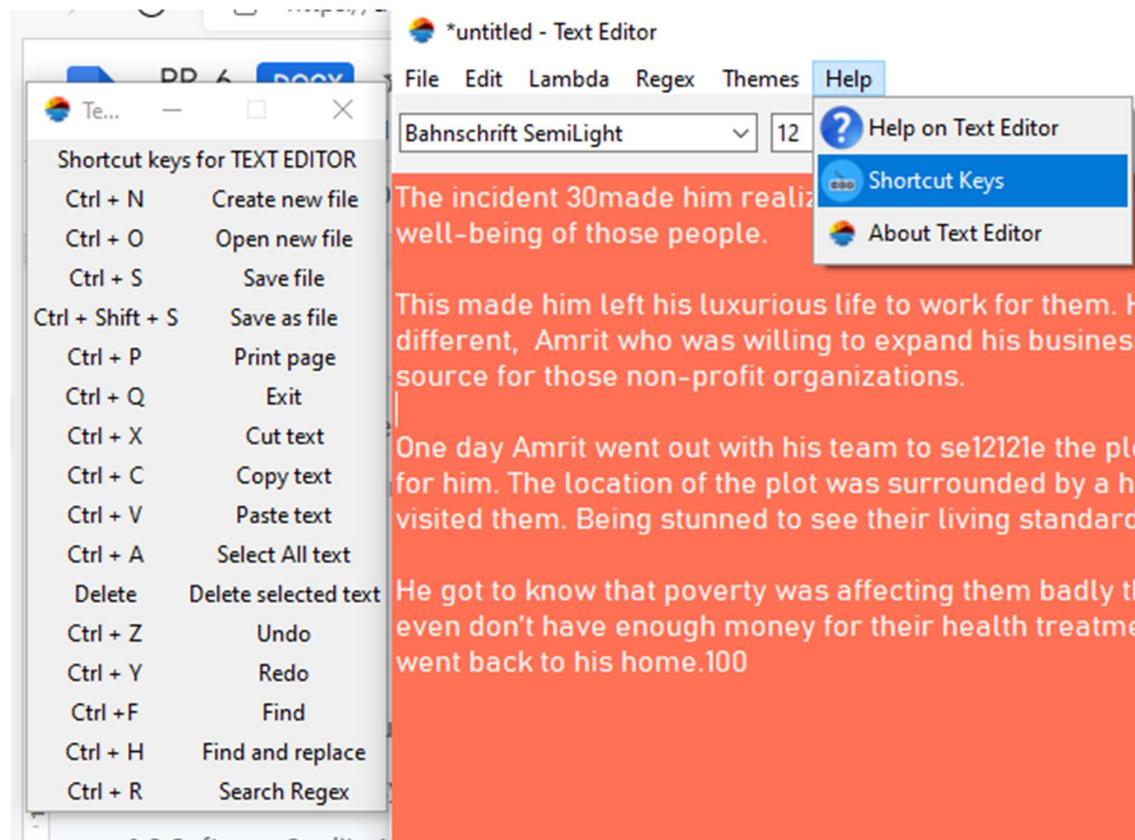
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