

TEXT EDITOR

DevPad

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PROBLEM STATEMENT

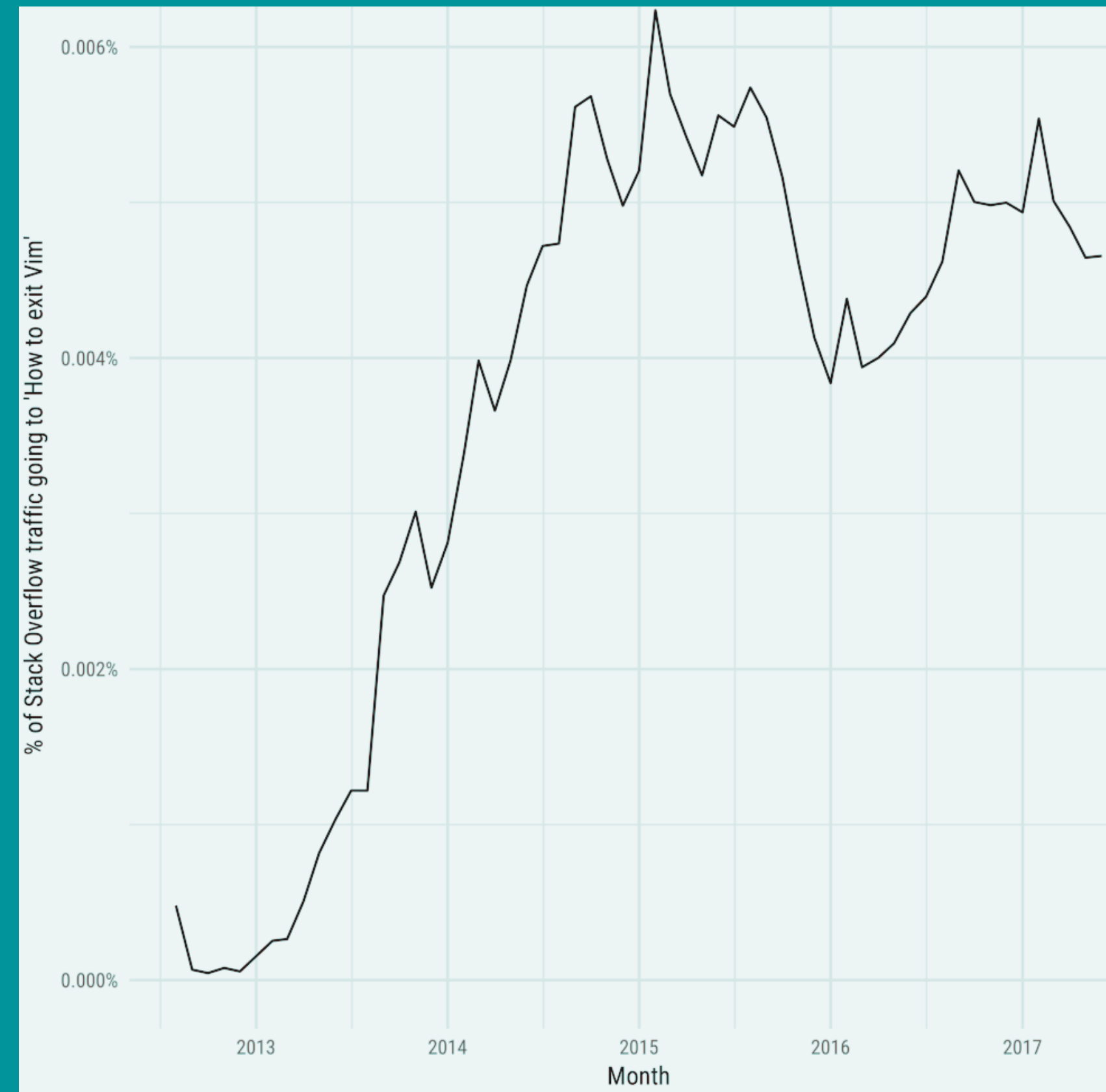
Text Editors now-a-days comes with power packed features but forget to focus on the basic functionalities. Also due to bunch of features they have complicated user interface.



SURVEY

ACCORDING TO A SURVEY EXITING
VIM EDITOR IN LINUX MACHINE IS A
BURDEN SOME TASK FOR MANY
DEVELOPERS

HERE IS THE GRAPH REPRESENTING
THE SEARCH RESULT OF THE
POPULAR SITE STACK OVERFLOW
FOR THE QUESTION "HOW TO EXIT
VIM ?"



“

Solution

- Instead of complaining i myself addressed the problem and tried to develop a simple text-editor.
- DevPad is specially for those who needs some basic features like creating a file, editing a file etc.
- I took care of the User Interface and tried to implement as user friendly as i can.

How i implemented Algorithm :

- It is majorly focused on the File System Architecture.
- Reading/ Writing/ Appending all the operations handled via file system
- .Feature like Spell Checking is the burdensome task to me, there are many options to Implement a spell check but the performance is the issue

Options i have :

- Linear Search
- Binary Search
- Hash Maps
- Tries

ARCHITECTURE OF DEVPAD

What i choosed ?

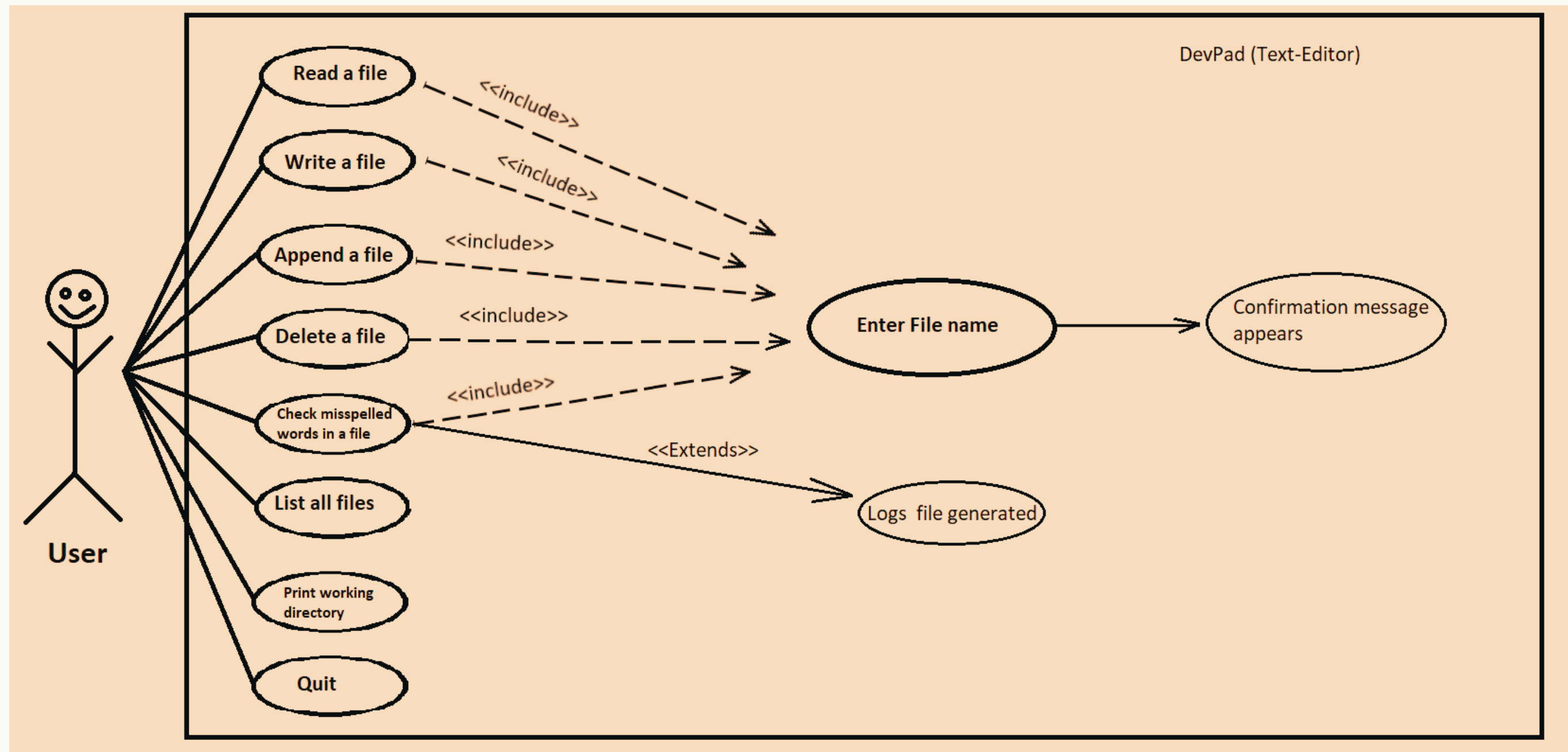
- I have chosen Tries as data structures, it is very efficient in terms searching a word, etc.
- It also provides us to efficiently implement auto-suggest feature which is in my To-Do list.

How it works?

Using Devpad is very simple and self explainable, user can understand just by viewing them.

- When we run DevPad a Menu Screen appears, which shows all the option available .
- After taking the user input choice it asks for the further details, like name of the file you want to operate on.
- When user finishes its task a confirmation message box appears telling whether the task is completed or not.

Use Case Diagram



Demo/ Preview :

M
E
N
U

```
*****DevPad*****
Enter in the following mode:
-----
Press 'r' to enter Read Mode.
Press 'w' to enter Write Mode.
Press 'a' to enter Append Mode.
Press 'd' to Delete a file.
Press 'l' to List all the files/folders present in this directory.
Press 'p' to print Present Working Directory.
Press 'c' for Checking Misspelled Words in your file.
Press 'i' for Instructions.
Press 'm' to Know More about developer.
Press 'q' to quit.
```

R
E
A
D

```
*****DevPad*****
Enter in the following mode:
-----
Press 'r' to enter Read Mode.
Press 'w' to enter Write Mode.
Press 'a' to enter Append Mode.
Press 'd' to Delete a file.
Press 'l' to List all the files/folders present in this directory.
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Press 'c' for Checking Misspelled Words in your file.
Press 'i' for Instructions.
Press 'm' to Know More about developer.
Press 'q' to quit.

Enter Input: r

You are in Read Only Mode

Enter the name of file you want to Read: demo.txt

demo.txt opened.

Hey this is a demo file which is generated using DevPad.
```

W
R
I
T
E

```
*****DevPad*****
Enter in the following mode:
-----
Press 'r' to enter Read Mode.
Press 'w' to enter Write Mode.
Press 'a' to enter Append Mode.
Press 'd' to Delete a file.
Press 'l' to List all the files/folders present in this directory.
Press 'p' to print Present Working Directory.
Press 'c' for Checking Misspelled Words in your file.
Press 'i' for Instructions.
Press 'm' to Know More about developer.
Press 'q' to quit.

Enter Input: w

You are in Write Only Mode

Enter the name of file you want to Write: demo.txt

demo.txt opened.

Enter the text and press ':' and Enter to save file.
this is a demo file which is generated using DevPad.

File saved successfully as demo.txt.
```

L
O
G
S

[Line number: 1]	[Word Number: 11]	DevPad
[Line number: 1]	[Word Number: 23]	1alksjc
[Line number: 2]	[Word Number: 1]	asjdf
[Line number: 3]	[Word Number: 1]	sdlfj



THANK YOU!