

Virtual Acronym Dictionary

Objective: An acronym is a word formed from the initial letters of a name, for example the word **IBM** is formed from the initial letters of the name: **I**nternational **B**usiness **M**achines. The purpose of the project is to design and implement a virtual acronym dictionary. A sample is shown below:

Virtual Acronym Dictionary

Definition

Add Word

Delete Word

File

Help

Clear

<Enter Acronym Here>				
A	B	C	D	E
F	G	H	I	J
K	L	M	N	O
P	Q	R	S	T
U	V	W	X	Y
Z	- .	& /	Shift	Spc
1	2	3	4	5
6	7	8	9	0

Enter text here

Text CheckClear Text

Features: Your dictionary must do the following:

1. The layout of your dictionary may or may not be the same as above. You may use your own appealing layout manager. However, you should group the buttons together and group the keys (A B C ...) together.
2. You should implement a virtual keyboard as shown above. Acronyms should only be entered using the virtual keyboard, i.e. the textfield above the keyboard should be disabled.
3. Once you enter an acronym and press the **Definition** button, the meaning of the acronym appears. For example if you enter **IBM** and press the **Definition** button then **International Business Machines** should appear in the text field.
4. The Shift and Spc button stand for “Shift” and “Space” with their usual meanings. Whenever you press the “Shift” key all uppercase letters should appear as lower case letters. The “- .” and “& /” keys should be replaced by “. - ” and “/ &”
5. There should be a window for entering text. Once you enter text there (you may do so with your own keyboard, no need to use virtual keyboard) the entered text is searched for acronyms and each acronym is replaced by its definition. For example if you type:

“The OS in my PC has an I/O Error” should translate to

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“The OS in my PC has an I/O Error” should translate to

“The Operating System in my Personal Computer has an Input/Output Error”

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	IBM				
	a	b	c	d	e
	f	g	h	i	j
	k	l	m	n	o
	p	q	r	s	t
	u	v	w	x	y
	z	. -	/ &	Shift	Spc
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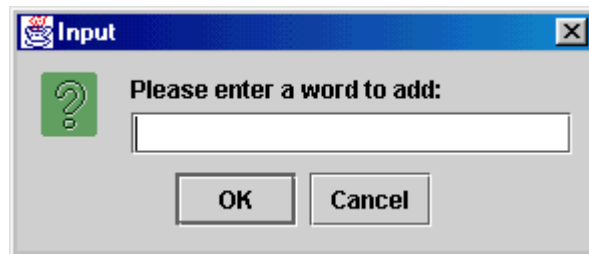
Enter text here

The OS in my PC has an I/O Error

Text Check Clear Text

Example of Using the Shift Key and the text area

6. The “Add Word” key will add a *new* word to the list of acronyms along with its definition. You may show a window like this:



6. The “Delete Word” key will delete a word from the list of acronyms along with its definition.

7. The list of acronyms is given as a separate file in plain text.

Optional feature:

8. The “File” and “Help” Buttons are optional. You may implement them. “File” opens a dialog to specify a new file for acronyms.

9. The “Help” button may specify a help file, and an “About” window. You may add these.

=====END OF PROJECT=====