

How the application works:

The application is developed using java, so you would require the latest version of java to be installed on the system. Since it is a jar file, you can double click on it to open the application or use the terminal/command prompt and type.

```
$ java -jar LaTeX_GlossaryTool.jar
```

- 1) Once the application is loaded,
Click on File -> Open -> Select the tex document you want to edit.
- 2) Now select or create the glossary file
- 3) Right click on a word that you want to add to the glossary file.
-> Add to Glossary
- 4) Enter the Tag*, Name, Plural, Symbol, Description*.
Tag = It is the unique value which identifies the glossary entry from other entries.
Name: the value to be displayed
Plural: Plural form of the word
Symbol: Symbol to represent the word
Description*: Description of the word

* **important fields**
- 5) Select Save.
This information's are temporarily stored in an internal HashMap<Datastructure>, and are available in the memory to till the file is saved.
Note : 1) You can see that, markup has been added to the selected word.
2) Tag and Description fields are compulsory

Now, you have a glossary entry saved in the internal data structure, it stays in the memory till the application is closed or saved.

Explanation of the Different Functions in the Menu Bar

1) Tools Menu:

- Search and Highlight words: This option would Highlight any instance of the glossary entry entered using the dialog box.
Shortcut key: **Cmd+L**
- Remove all highlights: This menu item would remove all the highlights from the document
Shortcut key: **Cmd+R**
- Glossarise all the words: This option would glossarise all the instances of the glossary entry words entered using dialog box.
Shortcut key: **Cmd+G**

2) Popup Menu: [Right Click on text area]

- Glossarise the word: This option would glossarise the selected word if the word is already added to the glossary entry using dialog box.
- Glossarise All Instances of this word: This option would glossarise all the instances of the selected word across the whole document. Any instance of the word, would be glossarised, e.g.: for object, it could be object, Object, objects, Object,
- These words would be recognized separately and correct markups would be added.
- Highlight all instances of the word: This option would highlight any instances of the selected word, and highlight it.

Note: Glossarisation of any selected word, instances of the selected word, or instances of words would work only if the glossary entry is stored using the “Add to glossary” dialogue box.

3) File Menu:

- **New: It allows you to create a new document.**

The following checks are performed: It checks the status of the file,

a) If the file is modified

A confirm box appears, giving user an option to save the file, discard or cancel it.

Option Yes: File will be saved if it is an existing file to the its default location otherwise it allows the user to save it to any location on the system.

Option No: File will be discarded and the Text Area will be cleared.

Option Cancel: cancels the action.

b) If the file is not modified:

Text Area is cleared.

- **Open: Allows the user to open an existing file.**

Following checks are performed,

1) Clears the internal data structure

- 2) File Chooser Dialog Box appears that allows the user to select the file from the system.
If the file is selected, it will be displayed in the text Area,

Otherwise cancels the action.

- 3) It asks the user, if they want to select the existing file or create a new one,
If the user selects existing file, a new file chooser Dialog comes allowing the user to select the file.

If the user selects new, then a File Choose Dialog comes allowing the user to create a new file in the directory.

- **Save: Allows the user to save their work, it also saves the glossary file.**

Following checks are performed,

Save menu item is enabled, only if there is any change in the document, otherwise, the save button is disabled it.

If the file is modified, then it checks if the file exists in the system, if it exists, it is saved, otherwise, new File Chooser Dialog comes and allows the user to save to a location.

The hash map data structure which contains the glossary entries are appended to the glossary file which the user selected while opening the document.

- **Save As : Allows the user to save a different copy of the file,**

A file chooser Dialog comes allowing the user to save the file in the system.