Ahditor

This is one of the best editors to work with JAVA programs, and it makes your life really easy.

We have several features which can compile and push your code simultaneously.

Contents

Installation

How to start the editor –

Run 'mvn package' in this directory.

When running the program for the first time, (using the script or with java -jar <.jar> args)

it will automatically generate the appropriate configuration files in "~/.config/Ahditor/ ".

IDE Config Path:

~/.config/Ahditor/Ahditor.xml

(Example configuration in config/Ahditor.xml)

Project Config Path:

ProjectRoot/Ahditor_config.xml

(Example config included in this project)

Git interactions:

You will need a ssh key inside your ~/.ssh/ directory properly configured

and generated with ssh-keygen -m PEM -t rsa. Otherwise, it will fail to recognize the key.

Usage:

./Ahditor <project-path>

You can symlink the sh script inside the /bin directory to add it to your path.

You can modify the script to account for your needs.

Configuration Files

Ahditor.xml :

field is optional. if set it should be to the image that is to be displayed in the background of the text area.

<fading> field is not optional, it should be a RGBA color hexadecimal in the format '#RRGGBBAA' for example '#00000080', it corresponds to the color of the fading layer to be displayed on top of the image to make text more readable on a bright image. regardless of if the image is set or not, this field should be. To ignore it, have the alpha channel set to FF (example '#000000FF')

<theme> field is not optional, it should be set to either 'Dracula', 'Light', 'Dark' or 'IntelliJ', this corresponds to the theme of the editor

Ahditor_config.xml: project configuration file: one per project in the root directory of the project.

<compilation><argument> you can have as many argument fields inside the <compilation> section or none at all. these arguments are passed to maven compile.

<execution><argument> you can have as many argument fields inside the <execution> section or none at all, these arguments are passed to the program to be executed.

<execution><path> the path of the root of the project to be executed, non-optional.

<execution><mainClass> this is the name of the class that should be called from maven, example: 'com.epita.assistants.ping.Main'

Features

a. Themes –
   In the IDE we can change the theme using the configuration panel, and the themes from which you can select are –
   1.1– Light
   1.2– Dracula
   1.3– Dark
   1.4– Intellij

b. Search – We can search any number of instances of a word by pressing Ctrl+F or by clicking on the search option in menu bar, where you will see the first instance in Cyan colour and all the rest in Yellow, you also have the functionality to switch between the instances using the "Prev" and "Next" option.

c. New – This is a very basic feature where you can create a new file using the "New" button in the File tab on menu bar.

d. Save – This is another very basic feature where you can save the modifications you did, this is also found on the "File" tab on menu bar.

e. Background Image – We can specify any background image we want and also, we can remove it and use the default of theme's background. You can change it in the Configuration Panel, which you can access by doing Ctrl+L.

f. Auto Indentation – It auto indents the code when you program.

Compilation

We can build and run our project thanks to the backend part of our project which we developed in really short time, and it works flawlessly.

To build your project you have the "Build" Option just below the menu bar and also on the menu bar, and you can also build it using the Ctrl+B, and similarly you have the "Run" just the "Build".

Git Features

We implemented all three features of Git which are "Add", "Commit" and "Push".

To use this you have to go to the "Git" option in Menu bar and you have all these 3 options. For the commit option, you would have a new popup where you have to add the commit message.

Metrics

1. Create a new File: 2 clicks + write name + 1 click or Ctrl-N + 1 click.
2. Open: 2 clicks + search panel actions + 1 click / Ctrl-O + search panel + 1 click/tree search double click.
3. Save: 2 click or Ctrl-S.
4. Configuration: 2 clicks or Ctrl-L.
5. Search: 2 clicks + writing action + Enter/1 click OR Ctrl-F + writing action + Enter/1 click.
6. Git add: 2 clicks OR Ctrl-A.
7. Git commit: 2 clicks + message + 1 click OR Ctrl-M + message + 1 click.
8. Git push: 2 clicks / Ctrl-P.
9. Help: 2 clicks / Ctrl-H.

More Information

The "Help" feature will open this very pdf. We really like this project and if given more time, we would have implemented some extra features for our client since we already completed all the features demanded by them. I hope they like our work.