PROJEQTOR

INTEGRATION

TECHNICAL DOCUMENTATION

VERSION: V 1.0

REFERENCE: PLUGIN – INTEGRATION

SOMMAIRE

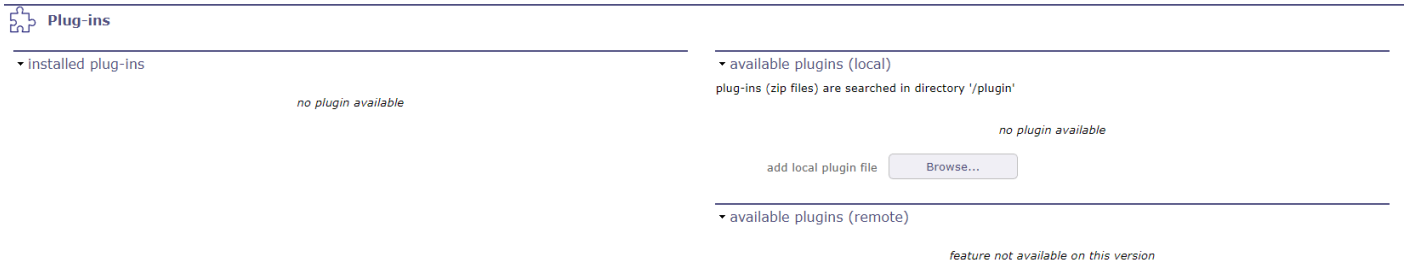
INTRODUCTION

The objective of this document is to explain how plugin “Integration” works.
This plugin enables to retrieve into projeqtor some information from remote applications.
Information retrieved will depend on remote application and remote application configuration.
On current version, this plugin covers integration with:

- GitHub

SETUP

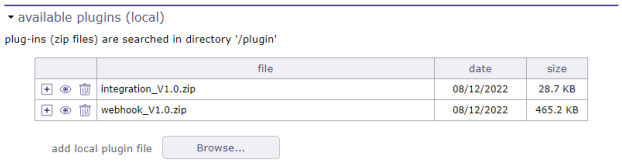
When acquiring a plugin, you get a .zip file. To install it, go to the Plugins Management screen.



In the section of installed plugins, you have the list of plugins already in place with the version of the latter and on which version of ProjeQtOr you installed it.

In the available plugins section, click on the browse button to upload your .zip file.

Once the file is uploaded, it appears in a table.
Note: if your zip file is a package containing several plugins, all plugins will appear in the table.



Click on  to install your plugin
Click on  to view the plugin metadata.
Click on to cancel the installation of this plugin.

When the zip is installed, the application restarts. Go to the Plugin menu to access it.
After installation, the menus are available for the profile “administrator”.

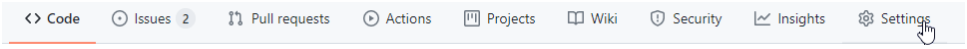
GITHUB INTEGRATION

GitHub integration will allow to retrieve some information from message entered on push command:

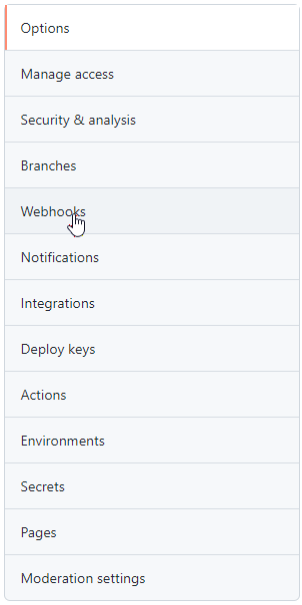
- Comments from commit message
- Work from commit message
- Transition from commit message

CONFIGURATION ON GITHUB SIDE

Fist, you need an account on Github. Use Github registration form.
When it's done you need to have a project.
On your project, select "Settings"

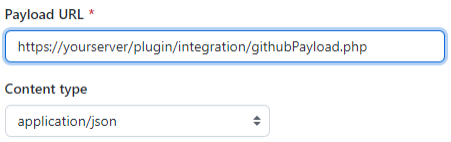


Then select Webhooks

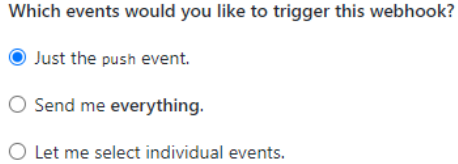


Create a new webhook

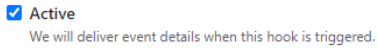
Define payload to point to /plugin/integration/githubPayload.php on your server, in Json format



Be sure to define a "Secret" and note it, you'll need it to configure Projeqtor side.
You may send all events or just push event (but at least pushes are required)



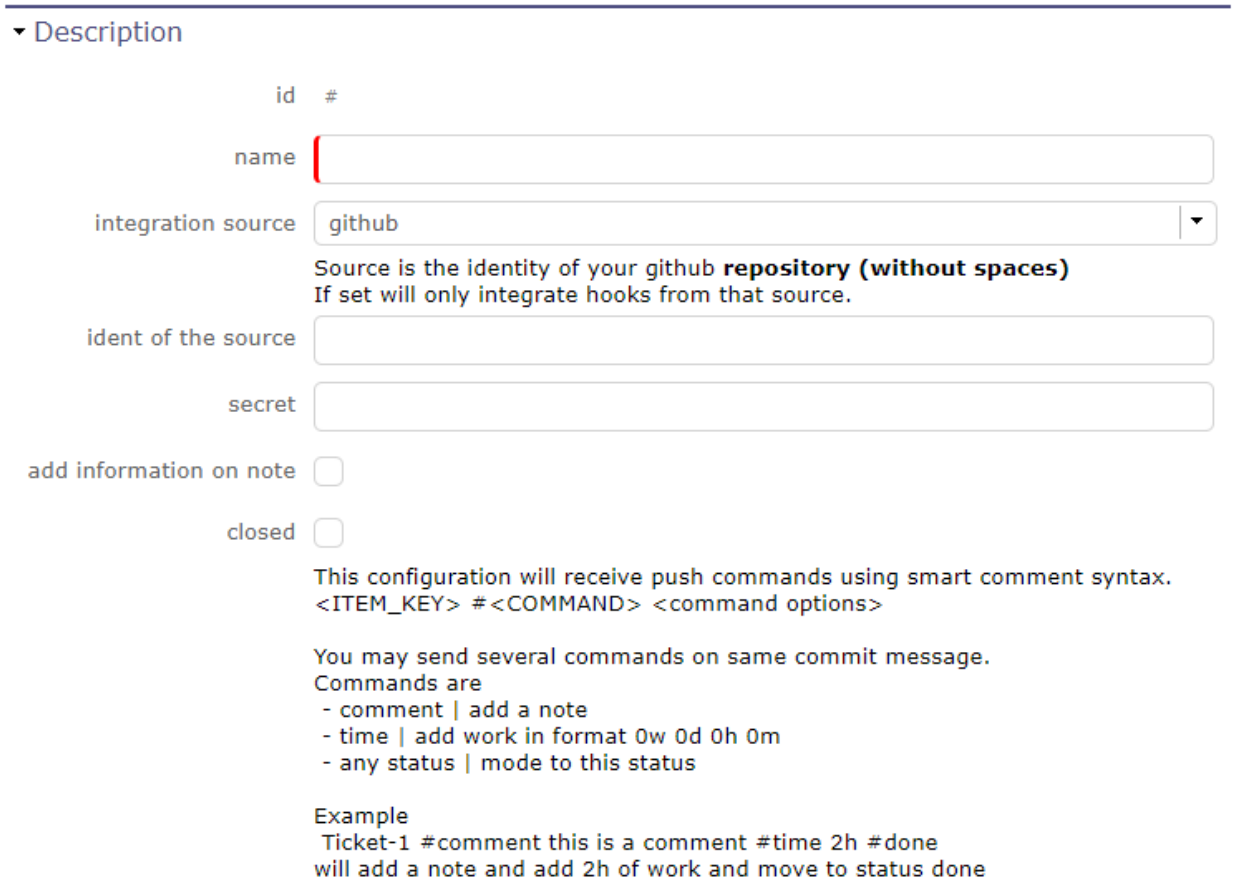
And be sure your webhook is active



Save. That's all.

CONFIGURATION ON PROJEQTOR SIDE

Access menu Plugin > Integration definitions.
Create a new Integration Definition and select “github” a new integration source:



- name — Name for this definition
- integration source — Select “github”
- ident of the source — Identity of your github repository (without spaces) - optional
  If the value is set, only hooks from this source will be integrated
- secret — Secret defined on your github webhook
- add information on note — If checked, information about changes will be added as a note to the item (on the note stored as comment if comment is set on message)
  This information can then be clicked to reach github commit information on github website
- closed — enable / disable this definition

HOW TO USE

When you push changes to your github repository, you can add a commit message.
Use Smart commit command in the commit message to interact with Projeqtor
https://confluence.atlassian.com/fisheye/using-smart-commits-960155400.html

Syntax for Smart Commit message is:

```
<ignored text> <ISSUE_KEY> <ignored text> #<COMMAND> <COMMAND_ARGS>
```

- <ISSUE_KEY> Reference to Projeqtor element.
  Syntax is `<CLASS>-<ID>`
  For instance `Ticket-1` refences the Ticket of id 1
  Class is not case sensitive (you can either enter ticket or Ticket or TICKET)
  Some shortcuts are allowed for the class:
  - T, TKT, TIC for Ticket
  - A, ACT for Activity
- #<COMMAND> The command to apply
  Available commands are
  - #comment adds a note to the item
  - #time adds some real work on the item
  - #<status> moves the item to corresponding status

  You can enter several commands on same commit message
- <COMMAND_ARGS> The arguments for the command
  - for #comment the text of the new note
  - for #time time in format `0w 0d 0h 0m`
    (replace 0 with any numeric value, decimal allowed)
    `w` is weeks, `d` is days, `h` is hours, `m` is minutes
    For instance, to enter 1 hour and a half, you can enter `1.5h` or `1h 30m` or `90m`
  - for #<status> no argument is expected

Any text between the issue key and the Smart Commit command is ignored.

Example:

```
TICKET-1 #comment mise à jour annulées OK #time 2h #done
```

This commit message will

- Add new note with text “mise à jour annulées OK”
- Add real work for 2 hours (for user = sender, day = today) on the item
- Move item to status “done” (if workflow allows this move)

If option « add information on note” is checked on the Integration Definition, note will look like:

and area displaying modified source code can be clicked to directly move to the commit changes on github.

CONSTRAINTS

Sender of the push command must be known as a user in Projeqtor.
User is searched from email address of the pusher (searching on email of projeqtor user), and if not found from the name of the pusher (searching on name of projeqtor user).
All Projeqtor access rights are controlled over rights of this user on the corresponding item.
This includes:

- rights to update the item
- rights to enter work on the item
- rights the move the item to the corresponding status as defined on the workflow

If the user does not have the right to execute the command, the command is rejected.