Linkit

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Abstract

linkit is a command line application that adds links to a web page that is created and updated by linkit. Links as said can be added but also updated and removed. It is possible to search links from the command line and list them. linkit can check whether the links are still active and list inactive links. Each link can have a category, tags and a discription. The category is used to group links and the discription can be searched for but tags a specifically used for searching for specific terms and topics.

1 Project outline

The programm runs from the command line. When provided a link linkit will check whether the link exists and adds it to the web page. A link can be anything that is accessible over an URI. That is web sites and files.

- $\bullet\,$ add a link
- update a link
- remove a link
- check if link is alive
- search link based on description and tags
- list all links
- invoke link from command line (should open web site or file)

2 Source code management

We organize the source in Git at https://github.com/sugaryourcoffee/linkit. We first create our project with Mix, then we cd into the project directory, initialize our git repository, do an initial commit and push the repository to Github.

- \$ mix new linkit
- \$ cd linkit
- \$ git init

```
$ git add .
$ git commit -am "initial commit"
$ git remote add origin git@github.com:sugaryourcoffee/linkit.git
$ git push -u origin master
$
```

3 Implement the Command Line Interface

We write the test first for our command line interface to describe the functions the command line interface actually should provide. We first describe the commands of linkit.

```
$ linkit add "http://elixir-lang.org"\
           --tag Elixir\
           --description "Home page of Elixir"
Added "http://elixir-lang.org"
$ linkit add "http://ruby-lang.org"\
           --tag Ruby\
           --description "Home of Ruby"
$ linkit update "http://elxir-lang.org"\
           --description "Home of Elixir"
Updated "http://elixir-lang.org" with description "Home of Elixir"
$ linkit delete "http://elixir-lang.org"
Deleted "http://elixir-lang.org"
$ linkit check "http://elixir-lang.com"
Check error: "http://elixir-lang.com" is not available
$ linkit list --tag "Elixir"
                      | Description | Tags
-----
"http://elixir-lang.org" | Home of Elxir | Elixir
$ linkit call "http://elixir-lang.org"
$ linkit list
URL
                      | Description | Tags
-----
"http://elixir-lang.org" | Home of Elxir | Elixir
"http://ruby-lang.org" | Home of Ruby | Ruby
```