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GitHub

This notebooks shows how you can load issues and pull requests (PRs) for a given repository on GitHub. We will use the LangChain Python repository as an example.

Setup access token

To access the GitHub API, you need a personal access token - you can set up yours here: https://github.com/settings/tokens?type=beta. You can either set this token as the environment variable `GITHUB_PERSONAL_ACCESS_TOKEN` and it will be automatically pulled in, or you can pass it in directly at initializaiton as the `access_token` named parameter.

```python
# If you haven't set your access token as an environment variable, pass it in here.
from getpass import getpass

ACCESS_TOKEN = getpass()
```

Load Issues and PRs

```python
from langchain.document_loaders import GitHubIssuesLoader
```

```python
loader = GitHubIssuesLoader(
    repo="hwchase17/langchain",
    access_token=ACCESS_TOKEN,  # delete/comment out this argument if you've set the access token as an env
var.
    creator="UmerHA",
)
```

Let's load all issues and PRs created by "UmerHA".

Here's a list of all filters you can use:

- include_prs
- milestone
- state
- assignee
- creator
- mentioned
- labels
- sort
- direction
- since

For more info, see https://docs.github.com/en/rest/issues/issues?apiVersion=2022-11-28#list-repository-issues.

```python
docs = loader.load()
```

```python
print(docs[0].page_content)
print(docs[0].metadata)
```

```
    # Creates GitHubLoader (#5257)

    GitHubLoader is a DocumentLoader that loads issues and PRs from GitHub.

    Fixes #5257

    Community members can review the PR once tests pass. Tag maintainers/contributors who might be
interested:
    DataLoaders
    - @eyurtsev

    {'url': 'https://github.com/hwchase17/langchain/pull/5408', 'title': 'DocumentLoader for GitHub',
'creator': 'UmerHA', 'created_at': '2023-05-29T14:50:53Z', 'comments': 0, 'state': 'open', 'labels':
['enhancement', 'lgtm', 'doc loader'], 'assignee': None, 'milestone': None, 'locked': False, 'number': 5408,
'is_pull_request': True}
```

Only load issues

By default, the GitHub API returns considers pull requests to also be issues. To only get 'pure' issues (i.e., no pull requests), use
`include_prs=False`

```python
loader = GitHubIssuesLoader(
    repo="hwchase17/langchain",
    access_token=ACCESS_TOKEN,  # delete/comment out this argument if you've set the access token as an env
```

```
var.
    creator="UmerHA",
    include_prs=False,
)
docs = loader.load()
```

```
print(docs[0].page_content)
print(docs[0].metadata)
```

```
### System Info

LangChain version = 0.0.167
Python version = 3.11.0
System = Windows 11 (using Jupyter)

### Who can help?

- @hwchase17
- @agola11
- @UmerHA (I have a fix ready, will submit a PR)

### Information

- [ ] The official example notebooks/scripts
- [X] My own modified scripts

### Related Components

- [X] LLMs/Chat Models
- [ ] Embedding Models
```

- [X] Prompts / Prompt Templates / Prompt Selectors
- [ ] Output Parsers
- [ ] Document Loaders
- [ ] Vector Stores / Retrievers
- [ ] Memory
- [ ] Agents / Agent Executors
- [ ] Tools / Toolkits
- [ ] Chains
- [ ] Callbacks/Tracing
- [ ] Async

Reproduction

```
import os
os.environ["OPENAI_API_KEY"] = "..."

from langchain.chains import LLMChain
from langchain.chat_models import ChatOpenAI
from langchain.prompts import PromptTemplate
from langchain.prompts.chat import ChatPromptTemplate
from langchain.schema import messages_from_dict

role_strings = [
    ("system", "you are a bird expert"),
    ("human", "which bird has a point beak?")
]
prompt = ChatPromptTemplate.from_role_strings(role_strings)
chain = LLMChain(llm=ChatOpenAI(), prompt=prompt)
chain.run({})
```

Expected behavior

```
Chain should run
{'url': 'https://github.com/hwchase17/langchain/issues/5027', 'title': "ChatOpenAI models don't work with
prompts created via ChatPromptTemplate.from_role_strings", 'creator': 'UmerHA', 'created_at': '2023-05-
20T10:39:18Z', 'comments': 1, 'state': 'open', 'labels': [], 'assignee': None, 'milestone': None, 'locked':
False, 'number': 5027, 'is_pull_request': False}
```