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aiovkcom is a python vk.com API wrapper. The main features are:

- authorization (Authorization Code, Implicit Flow)
- REST API methods
CHAPTER 1

Usage

To use vk.com API you need a registered app and vk.com account. For more details, see aiovkcom Documentation.

```python
from aiovkcom import TokenSession, API

session = TokenSession(access_token, v='5.101')
api = API(session)

events = await api.wall.get()
friends = await api.friends.get()
```

Pass `access_token` that was received after authorization. For more details, see aiovkcom Documentation.
Installation

$ pip install aiovkcom

or

$ python setup.py install
CHAPTER 3

Supported Python Versions

Python 3.5, 3.6, 3.7 and 3.8 are supported.

3.1 Getting Started

3.1.1 Installation

If you use pip, just type

```bash
$ pip install aiovkcom
```

You can install from the source code like

```bash
$ git clone https://github.com/KonstantinTogoi/aiovkcom.git
$ cd aiovkcom
$ python setup.py install
```

3.1.2 Account

Sign up in vk.com.

3.1.3 Application

After signing up visit vk.com API documentation page and create a new application: https://vk.com/editapp?act=create.

Save `client_id` (aka `app_id`) and `client_secret` (aka `app_secret`) for user authorization.

```python
app_id = 'your client id'
app_secret = 'your secret key'
```
3.2 Authorization

To authorize with vk.com OAuth 2.0 you need app_id (Implicit Grant) or app_id and app_secret (Code Grant). The preferred way to authorize is an async with statement. After authorization the session will have the following attributes:

- access_token
- expires_in
- user_id

3.2.1 Authorization Code Grant

```python
from aiovkcom import CodeSession, API

app_id = 123456
app_secret = 'abc'

async with CodeSession(app_id, app_secret, code, redirect_uri) as session:
    api = API(session)
    ...
```

About OAuth 2.0 Authorization Code Grant: https://oauth.net/2/grant-types/authorization-code/
For more details, see https://vk.com/dev/authcode_flow_user

3.2.2 Implicit Grant

```python
from aiovkcom import ImplicitSession, API

app_id = 123456
app_secret = ''

async with ImplicitSession(app_id, login, passwd, scope) as session:
    api = API(session)
    ...
```

About OAuth 2.0 Implicit Grant: https://oauth.net/2/grant-types/implicit/
For more details, see https://vk.com/dev/implicit_flow_user

3.3 Session

3.3.1 Request

The session makes GET requests when you call methods of an API instance. For example, the following code block

```python
from aiovkcom import TokenSession, API

session = TokenSession('abcde', v='5.101')
api = API(session)
news = await api.newsfeed.get()
```
is equivalent to GET request:

```
```

### 3.3.2 Response

By default, a session after executing request returns response’s body (value of “response” key). For example, if original response looks like this:

```
{"response":[{"id":210700286,"first_name":"Lindsey","last_name":"Stirling"}]}
```

then the session will return

```
[{
"id":210700286,"first_name":"Lindsey","last_name":"Stirling"}
```

You can pass `pass_error` parameter to `TokenSession` for returning original response (including errors).

### 3.3.3 Error

In case of an error, by default, an exception is raised. You can pass `pass_error` parameter to `TokenSession` for returning original error’s body. For example:

```
{"error": {"error_code": 1, "error_msg": "Unknown error occurred", "request_params": {
...
}}
```

### 3.4 REST API

List of all methods is available here: https://vk.com/dev/methods.

#### 3.4.1 Executing requests

```python
from aiovkcom import API

def function_name(api):
    events = await api.newsfeed.get()  # events for current user
    friends = await api.friends.get()   # current user's friends
```

Under the hood each API request is enriched with parameters (https://vk.com/dev/api_requests):

- `access_token`
- `v`

to authorize request.
CHAPTER 4

Indices and tables

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