Basket Documentation

Release 1.0

Mozilla

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This documentation explains how to install and use basket.mozilla.org.

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About Basket

A Python web service, basket, provides an API for all of our subscribing needs. Basket interfaces into whatever email provider we are using.

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2.1 Installing Basket

2.1.1 Requirements

- Python >= 2.6, < 3
- MySQL

2.1.2 Installation

Get the code

git clone git@github.com:mozilla/basket.git --recursive

The *-recursive* is important!

Make a virtualenv

Using virtualenvwrapper:

mkvirtualenv --python=python2.6 basket

Install packages

pip install -r requirements/compiled.txt

For developers:

pip install -r requirements/dev.txt

Settings

Create a settings_local.py file. Typical settings can be found in settings_ex.py NOTE: make sure you have from settings import * at the top, or you'll be confused when things aren't working correctly.

Database schema

```
./manage.py syncdb --noinput
```

2.2 Production Environments

Production installs often have a few different requirements:

- point Apache's WSGIScriptAlias at /path/to/basket/wsgi/basket.wsgi
- jbalogh has a good example WSGI config for Zamboni.
- DEBUG = False in settings

2.3 Newsletter API

This "news" app provides a service for managing Mozilla newsletters.

fixtures/newsletters.json is a fixture that can be used to load some initial data, but is probably out of date by the time you read this.

Currently available newsletters can be found in JSON format via the /news/newsletters/ API endpoint.

If 'token-required' is specified, a token must be suffixed onto the API URL, such as:

```
/news/user/<token>/
```

This is a user-specific token given away by the email backend or basket in some manner (i.e. emailed to the user from basket). This token allows clients to do more powerful things with the user.

A client might also have an API key that it can use with some APIs to do privileged things, like looking up a user from their email.

If 'SSL required', the call will fail if not called over a secure (SSL) connection.

Whenever possible (even when the HTTP status is not 200), the response body will be a JSON-encoded dictionary with several guaranteed fields, along with any data being returned by the particular call:

'status': 'ok' if the call succeeded, 'error' if there was an error

If there was an error, these fields will also be included:

'code': an integer error code taken from basket.errors in basket-client. 'desc': brief English description of the error.

The following URLs are available (assuming "/news" is app url):

2.3.1 /news/subscribe

This method subscribes the user to the newsletters defined in the "newsletters" field, which should be a comma-delimited list of newsletters. "email" and "newsletters" are required:

```
SSL required if sync=Y
token or API key required if sync=Y
```

format can be any of the following values: H, html, T, or text

country is the 2 letter country code for the subscriber.

lang is the language code for the subscriber (e.g. de, pt-BR)

optin should be set to "Y" if the user should not go through the double-optin process (email verification). Setting this option requires an API key and the use of SSL. Defaults to "N".

trigger_welcome should be set to "N" if you do not want welcome emails to be sent once the user successfully subscribes and verifies their email. Defaults to "Y".

sync is an optional field. If set to Y, basket will ensure the response includes the token for the provided email address, creating one if necessary. If you don't need the token, or don't need it immediately, leave off sync so Basket has the option to optimize by doing the entire subscribe in the background after returning from this call. Defaults to "N".

Using sync=Y requires SSL and an API key.

source_url is an optional place to add the URL of the site from which the request is being made. It's just there to give us a way of discovering which pages produce the most subscriptions.

If the email address is invalid (due to format, or unrecognized domain), the error code will be BASKET_INVALID_EMAIL from the basket client. If it is likely just a misspelled domain, then basket may suggest a correction. If there is a suggestion, it will be in the error response in the suggestion parameter.

If you've validated that the email address is indeed correct and don't want the validation, you may pass validated=true with your submission and the address will be accepted. It is suggested that you not use this unless you've specifically asked the user if it is really correct.

2.3.2 /news/unsubscribe

This method unsubscribes the user from the newsletters defined in the "newsletters" field, which should be a comma-delimited list of newsletters. If the "optout" parameter is set to Y, the user will be opted out of all newsletters. "email" and either "newsletters" or "optout" is required:

2.3.3 /news/user

Returns information about the user including all the newsletters he/she is subscribed to:

```
method: GET
fields: *none*
returns: {
    status: ok,
    email: <email>,
    format: <format>,
    country: <country>,
    lang: <lang>,
```

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```
newsletters: [<newsletter>, ...]
} on success
{
    status: error,
    desc: <desc>
} on error
token-required
```

If POSTed, this method updates the user's data with the supplied fields. Note that the user is only subscribed to "newsletters" after this, meaning the user will be unsubscribed to all other newsletters. "optin" should be Y or N and opts in/out the user:

2.3.4 /news/newsletters

Returns information about all of the available newsletters:

```
method: GET
fields: *none*
returns: {
   status: ok,
   newsletters: {
       newsletter-slug: {
           vendor_id: "ID_FROM_EXACTTARGET",
            welcome: "WELCOME MESSAGE ID",
            description: "Short text description",
            show: boolean, // whether to always show this in lists
            title: "Short text title",
            languages: [
                "<2 char lang>",
            ],
            active: boolean, // whether to show it at all (optional)
            order: 15, // in what order it should be displayed in lists
            requires_double_optin: boolean
        },
    }
```

2.3.5 /news/debug-user

This is the same as a GET request to /user, except that you must pass in the email and a supertoken as GET params. The supertoken is a special token that should never be made public and lets devs debug users to make sure they were entered into the system correctly:

```
method: GET fields: email, supertoken
```

2.3.6 /news/lookup-user

This allows retrieving user information given either their token or their email (but not both). To retrieve by email, an API key is required:

Examples:

```
GET https://basket.example.com/news/lookup-user?token=<TOKEN>
GET https://basket.example.com/news/lookup-user?api-key=<KEY>&email=<email@example.com>
```

The API key can be provided either as a GET query parameter api-key or as a request header X-api-key. If both are provided, the query parameter is used.

If user is not found, returns a 404 status and 'desc' is 'No such user'.

On success, response is a bunch of data about the user:

```
'status': 'ok',
                      # no errors talking to ET
'status': 'error',
                    # errors talking to ET, see next field
'desc': 'error message'
                          # details if status is error
'email': 'email@address',
'format': 'T'|'H',
'country': country code,
'lang': language code,
'token': UUID,
'created-date': date created,
'newsletters': list of slugs of newsletters subscribed to,
'confirmed': True if user has confirmed subscription (or was excepted),
'pending': True if we're waiting for user to confirm subscription
'master': True if we found them in the master subscribers table
```

Note: Because this method always calls Exact Target one or more times, it can be slower than some other Basket APIs, and will fail if ET is down.

2.3.7 /news/recover/

This sends an email message to a user, containing a link they can use to manage their subscriptions:

```
method: POST
fields: email
returns: { status: ok } on success
{ status: error, desc: <desc> } on error
```

The email address is passed as 'email' in the POST data. If it is missing or not syntactically correct, a 400 is returned. Otherwise, a message is sent to the email, containing a link to the existing subscriptions page with their token in it, so they can use it to manage their subscriptions.

If the user is known in ET, the message will be sent in their preferred language and format.

If the email provided is not known, a 404 status is returned.

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