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The v1 Discovery Service
(http://www.ibm.com/watson/developercloud/doc/discovery/)
import json
import mimetypes
from .watson developer cloud service import
WatsonDeveloperCloudService
default url = 'https://gateway.watsonplatform.net/discovery/api'
latest \overline{\text{version}} = '2016-11-07'
[docs]class DiscoveryV1(WatsonDeveloperCloudService):
    """Client for Discovery service"""
         init (self, version, url=default url, username=None,
    def
password=None,
                 use_vcap_services=True):
        ** ** **
        Construct an instance. Fetches service parameters from
VCAP SERVICES
        runtime variable for Bluemix, or it defaults to local URLs.
        :param version: specifies the specific version-date of the
service to
        WatsonDeveloperCloudService. init (
            self, 'discovery', url, username, password,
use vcap services)
        self.version = version
         def get environments(self):
[docs]
        Retrieves information about the environments associated with
the user
        return self.request(method='GET', url='/v1/environments',
                            params={"version": self.version},
accept json=True)
[docs]
         def get environment(self, environment id):
        Retrieves information about the specific
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:param environment id:
        :return:
        11 11 11
        return self.request(method='GET',
url='/v1/environments/{0}'.format(environment_id),
                            params={"version": self.version},
accept json=True)
    def valid name and description(self, name, description):
        if len(name) not in range(0, 255):
            raise ValueError(
                "name must be a string having length between 0 and 255
                "characters")
        if len(description) not in range(0, 255):
            raise ValueError(
                "description must be a string having length between 0
and 255 "
                "characters")
         def create environment(self, name="", description="",
[docs]
size=1):
        :param name: name of the environment (max 255 chars) can be
emptv
        :param description: description of the environment (max 255
chars)
        can be empty
        :param size: size of the environment (1,2, or 3)
        :return:
        self._valid_name_and_description(name=name,
description=description)
        if size not in range (1, 4):
            raise ValueError("Size can be 1, 2, or 3")
        body = json.dumps({"name": name,
                            "description": description,
                           "size": size})
        return self.request(method='POST',
                            url='/v1/environments',
                            params={"version": self.version},
                            data=body,
                            headers={ 'content-type':
'application/json'},
                            accept json=True)
         def update environment(self, environment id, name="",
[docs]
description=""):
        :param environment id: guid of the environment to modify
        :param name: update the name of the environment
        :param description: update the description of the environment
        :return:
        11 11 11
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self. valid name and description(name=name,
description=description)
        body = json.dumps({"name": name, "description": description})
        return self.request(method='PUT',
url='/v1/environments/{0}'.format(environment id),
                            params={"version": self.version},
                            data=body,
                            headers={ 'content-type':
'application/json'},
                            accept json=True)
[docs]
         def delete environment(self, environment id):
        Deletes the specified environment.
        :param environment id: guid of environment to delete
        :return:
        url string = '/v1/environments/{0}'.format(environment id)
        return self.request(method='DELETE', url=url string,
                            params={"version": self.version},
                            accept json=True)
        def list configurations(self, environment_id):
[docs]
        format string = '/v1/environments/{0}/configurations'
        url string = format string.format(environment id)
        return self.request(method='GET', url=url string,
                            params={'version': self.version},
                            accept json=True)
          def get default configuration id(self, environment id):
[docs]
        all configs =
self.list configurations(environment id=environment id)
        try:
            configs = [x['configuration id']
                       for x in all configs['configurations']
                       if x['name'] == 'Default Configuration']
            if len(configs) > 0:
                return configs[0]
            else:
               return None
        except KeyError:
            pass # this isn't a problem and supress isn't in 2.7
        return None
         def get configuration(self, environment id,
[docs]
configuration id):
        format string = '/v1/environments/{0}/configurations/{1}'
        url string = format string.format(environment id,
configuration id)
        return self.request(method='GET', url=url string,
                            params={'version': self.version},
                            accept json=True)
```