WOLFF API Plugins

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Contents

1	Hier	archical Index	1
	1.1	Class Hierarchy	1
2	Clas	ss Index	3
	2.1	Class List	3
3	Clas	ss Documentation	5
	3.1	api_hook.APIHook Class Reference	5
	3.2	api_map.APIMap Class Reference	5
		3.2.1 Detailed Description	6
		3.2.2 Constructor & Destructor Documentation	6
		3.2.2.1init()	6
	3.3	api_hook.APIMethod Class Reference	6
		3.3.1 Detailed Description	7
		3.3.2 Member Function Documentation	7
		3.3.2.1 get_http_method()	7
		3.3.2.2 get_uri()	7
	3.4	api_method.APIMethod Class Reference	8
	3.5	encoder.Applications Class Reference	8
	3.6	decoder.Applications Class Reference	9
	3.7	response_handler.CheckListingStockResponseHandler Class Reference	10
	3.8	client.Client Class Reference	10
		3.8.1 Detailed Description	10
		3.8.2 Constructor & Destructor Documentation	10

ii CONTENTS

		3.8.2.1	init()	11
	3.8.3	Member	Function Documentation	11
		3.8.3.1	get_connection()	11
		3.8.3.2	has_connection()	11
		3.8.3.3	instantiate_resources()	12
		3.8.3.4	set_connection()	12
3.9	client_	manager.C	ClientManager Class Reference	12
	3.9.1	Detailed	Description	13
	3.9.2	Construc	ctor & Destructor Documentation	13
		3.9.2.1	init()	13
	3.9.3	Member	Function Documentation	13
		3.9.3.1	check_existing_client()	13
		3.9.3.2	get_client_by_service_identifier()	14
		3.9.3.3	register_client()	14
		3.9.3.4	register_existing_client()	14
0.40				
3.10	respon	se_handle	er.CreateListingResponseHandler Class Reference	15
3.10			rFactory Class Reference	15 15
		er.Decoder		
	decode 3.11.1	er.Decoder Detailed	rFactory Class Reference	15 15
	decode 3.11.1	er.Decoder Detailed Member	rFactory Class Reference	15 15
3.11	decode 3.11.1 3.11.2	Detailed Member 3.11.2.1	rFactory Class Reference	15 15 15
3.11	decode 3.11.1 3.11.2 endpoi	Detailed Member 3.11.2.1 nt_handle	rFactory Class Reference	15 15 15
3.11	decode 3.11.1 3.11.2 endpoi	Detailed Member 3.11.2.1 nt_handled	rFactory Class Reference	15 15 15 15
3.11	decode 3.11.1 3.11.2 endpoi decode 3.13.1	Detailed Member 3.11.2.1 nt_handleder.EtsyDec	rFactory Class Reference	15 15 15 15 16
3.11	decode 3.11.1 3.11.2 endpoi decode 3.13.1	Detailed Member 3.11.2.1 nt_handleder.EtsyDeco Detailed Construct	rFactory Class Reference	15 15 15 15 16 16
3.11	decode 3.11.1 3.11.2 endpoi decode 3.13.1 3.13.2	Detailed Member 3.11.2.1 nt_handler Per.EtsyDec Detailed Construct 3.13.2.1	rFactory Class Reference Description Function Documentation get_service() r.EndpointManager Class Reference coder Class Reference Description ctor & Destructor Documentation	15 15 15 15 16 16 17
3.11	decode 3.11.1 3.11.2 endpoi decode 3.13.1 3.13.2	Detailed Member 3.11.2.1 nt_handler Per.EtsyDec Detailed Construct 3.13.2.1	rFactory Class Reference Description Function Documentation get_service() r.EndpointManager Class Reference coder Class Reference Description ctor & Destructor Documentation init()	15 15 15 15 16 16 17 17
3.11	decode 3.11.1 3.11.2 endpoi decode 3.13.1 3.13.2	Detailed Member 3.11.2.1 nt_handle er.EtsyDec Detailed Construct 3.13.2.1 Member 3.13.3.1	rFactory Class Reference Description Function Documentation get_service() r.EndpointManager Class Reference coder Class Reference Description ctor & Destructor Documentation init() Function Documentation	15 15 15 16 16 17 17 17
3.12 3.13	decode 3.11.1 3.11.2 endpoi decode 3.13.1 3.13.2	Detailed Member 3.11.2.1 nt_handler er.EtsyDec Detailed Construct 3.13.2.1 Member 3.13.3.1 3.13.3.2	rFactory Class Reference Description Function Documentation get_service() r.EndpointManager Class Reference coder Class Reference Description ctor & Destructor Documentation init() Function Documentation decode_update_listing_message()	15 15 15 16 16 17 17 17

CONTENTS

3.14.2 Constructor & Destructor Documentation	 18
3.14.2.1init()	 18
3.14.3 Member Function Documentation	 18
3.14.3.1 encode()	 19
3.15 endpoint_handler.EtsyEndpointManager Class Reference .	 19
3.16 message.EtsyMessage Class Reference	 20
3.17 resource.FileResource Class Reference	 21
3.17.1 Detailed Description	 22
3.17.2 Constructor & Destructor Documentation	 22
3.17.2.1init()	 22
3.17.3 Member Function Documentation	 22
3.17.3.1 contains()	 23
3.17.3.2 get_data()	 23
3.17.3.3 get_file_name()	 23
3.17.3.4 get_full_file_path()	 23
3.17.3.5 get_full_path()	 24
3.17.3.6 read()	 24
3.18 message.Message Class Reference	 24
3.18.1 Constructor & Destructor Documentation	 25
3.18.1.1init()	 25
3.18.2 Member Function Documentation	 25
3.18.2.1 get_data()	 25
3.19 server.MQTTServer Class Reference	 25
3.19.1 Detailed Description	 26
3.19.2 Member Function Documentation	 26
3.19.2.1 start()	 27
3.20 server_connection.MQTTServerConnection Class Reference	 27
3.20.1 Detailed Description	 27
3.20.2 Member Function Documentation	 27
3.20.2.1 check_for_messages()	 28

iv CONTENTS

3.20.2.2 get_client()	28
3.20.2.3 send()	28
3.21 oauth_credentials.OAuth1Credentials Class Reference	28
3.21.1 Member Function Documentation	29
3.21.1.1 as_dict()	29
3.21.1.2 get_from_file()	29
3.21.1.3 set_client_info()	29
3.21.1.4 set_resource_owner_info()	30
3.22 resource.OAuth1Resource Class Reference	30
3.22.1 Constructor & Destructor Documentation	31
3.22.1.1init()	31
3.22.2 Member Function Documentation	31
3.22.2.1 read()	31
3.22.2.2 write()	32
3.23 resource.ResourceFactory Class Reference	32
3.24 response_handler.ResponseHandler Class Reference	32
3.25 decoder.EtsyDecoder.Services Class Reference	33
3.25.1 Detailed Description	33
3.25.2 Member Function Documentation	34
3.25.2.1 has_value()	34
3.26 encoder.EtsyEncoder.Services Class Reference	34
3.26.1 Detailed Description	35
3.27 resource.ShippingTemplateIdResource Class Reference	35
3.27.1 Detailed Description	36
3.28 DBConnection.SQLite3DBConnection Class Reference	36
3.29 server_connection.TCPServerConnection Class Reference	36
3.29.1 Detailed Description	37
3.29.2 Member Function Documentation	37
3.29.2.1 get_ip()	37
3.29.2.2 get_port()	37

CONTENTS

	3.29.2.3 send()	37
3.30 server.	WOLFFNodeProxy Class Reference	38
3.30.1	Detailed Description	39
3.30.2	Member Function Documentation	39
	3.30.2.1 do_request()	39
	3.30.2.2 start()	39
3.31 server.	WOLFFServer Class Reference	40
3.31.1	Detailed Description	40
3.31.2	Member Function Documentation	40
	3.31.2.1 annotate_data()	41
	3.31.2.2 decode_data()	41
	3.31.2.3 do_request()	42
	3.31.2.4 get_request_handler()	42
	3.31.2.5 start()	42
Index		43

Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

api_hook.APIHook
api_map.APIMap
api_hook.APIMethod
api_method.APIMethod
response_handler.CheckListingStockResponseHandler
client.Client
client_manager.ClientManager
response_handler.CreateListingResponseHandler
decoder.DecoderFactory
endpoint_handler.EndpointManager
endpoint_handler.EtsyEndpointManager
decoder.EtsyDecoder
encoder.EtsyEncoder
resource.FileResource
resource.OAuth1Resource
resource.ShippingTemplateIdResource
message.Message
message.EtsyMessage
server connection.MQTTServerConnection
oauth credentials.OAuth1Credentials
resource.ResourceFactory
response_handler.ResponseHandler
DBConnection.SQLite3DBConnection
server_connection.TCPServerConnection
server.WOLFFServer
server.MQTTServer
server.WOLFFNodeProxy
Enum
decoder.Applications
decoder.EtsyDecoder.Services
encoder.Applications
encoder.EtsyEncoder.Services

2 Hierarchical Index

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

api_hook.APIHook
api_map.APIMap
api_hook.APIMethod
api_method.APIMethod
encoder.Applications
decoder.Applications
response_handler.CheckListingStockResponseHandler
client.Client
client_manager.ClientManager
response_handler.CreateListingResponseHandler
decoder.DecoderFactory
endpoint_handler.EndpointManager
decoder.EtsyDecoder
encoder.EtsyEncoder
endpoint_handler.EtsyEndpointManager
message.EtsyMessage
resource.FileResource
message.Message
server.MQTTServer
server_connection.MQTTServerConnection
oauth_credentials.OAuth1Credentials
resource.OAuth1Resource
resource.ResourceFactory
response_handler.ResponseHandler
decoder.EtsyDecoder.Services
encoder.EtsyEncoder.Services
resource.ShippingTemplateIdResource
DBConnection.SQLite3DBConnection
server_connection.TCPServerConnection
server.WOLFFNodeProxy
server WOLFEServer

4 Class Index

Chapter 3

Class Documentation

3.1 api_hook.APIHook Class Reference

Public Member Functions

- def __init__ (self, service="", methods=None)
- def get_methods (self)
- def add method (self, method)
- def add_methods (self, methods)
- def get_service (self)
- def set_service (self, service)

Public Attributes

- · service
- · methods

The documentation for this class was generated from the following file:

· wolff_api_plugins/client/api_hook.py

3.2 api_map.APIMap Class Reference

Public Member Functions

- def __init__ (self)
- def get base url (self, service)
- def get_uri (self, service, method)
- def uri_is_substitutable (self, uri)
- def perform_uri_replacement (self, uri, uri_re, value)
- def get_replacement (self, service, method, data_dict, database)
- def get_complete_url (self, service, method, replace=None)
- def get_http_method (self, service, method)
- def get_auth_type (self, service)
- def get_service_identifier (self, service, method)
- def get_identifier_value (self, service, method, data)
- def add_special_params (self, service, method, data)

Public Attributes

api map

3.2.1 Detailed Description

An APIMap contains the information necessary to retrieve the base url, methods and their arguments, and authentication types for services.

3.2.2 Constructor & Destructor Documentation

The documentation for this class was generated from the following file:

wolff_api_plugins/server/api_map.py

3.3 api_hook.APIMethod Class Reference

Public Member Functions

- def __init__ (self, method="", args=None, http_method="", name="", uri="")
- def get_method (self)
- def **set_method** (self, new_method)
- def set_parameter_re (self, new_re)
- def get_http_method (self)
- def get_uri_replacement (self, match)
- def get uri (self, substitute=True)
- def args_as_dict (self)
- def get_args (self)
- def set_http_method (self, method)
- def set uri (self, uri)
- def add_arg (self, arg)
- def set args (self, args)
- def set_name (self, name)
- def set_args (self, p_dict)
- def clear_args (self)
- def get_name (self)

Public Attributes

- uri
- · args
- http_method
- name
- · method
- · substitutable_args
- · uri_re

3.3.1 Detailed Description

Represents the data needed to call an API method. Has a uri for locating the resource necessary and a set of arguments that are included in the call of an API Method.

3.3.2 Member Function Documentation

```
3.3.2.1 get_http_method()
```

```
def api_hook.APIMethod.get_http_method ( self \ ) Get the HTTP method this APIMethod uses (GET, POST, etc.)
```

def api_hook.APIMethod.get_uri (

3.3.2.2 get_uri()

```
Sell,

substitute = True )

Get the method's URI. If there are substitutable parameters (parameters that appear in the URI in the form: /:param_name/ will be substituted if 'substitute' is set to true. So if user_id is an argument to a method whose URI looks like:

'/:user_id/', then the value of user_id wil take place of the item between the slashes.
```

Args:

- substitute: Include if URI substitution as explained above should be done. This only happens if the value in self.args_as_dict() is set. If false, the unchanged value will be used.

Raises:

- ValueError if substitute is true but there is no valid substitution to make in the args.

Returns:

- The string URI of this method

The documentation for this class was generated from the following file:

• wolff_api_plugins/client/api_hook.py

3.4 api_method.APIMethod Class Reference

Public Member Functions

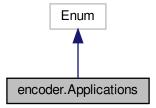
- def __init__ (self, uri=", http_method=", name=", args=None)
- def get_name (self)
- def get_uri (self)
- def get_http_hethod (self)

The documentation for this class was generated from the following file:

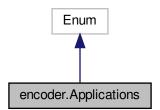
• wolff_api_plugins/server/api_method.py

3.5 encoder. Applications Class Reference

Inheritance diagram for encoder. Applications:



Collaboration diagram for encoder. Applications:



Static Public Attributes

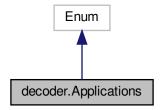
• int **ETSY** = 1

The documentation for this class was generated from the following file:

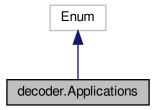
• wolff_api_plugins/client/encoder.py

3.6 decoder. Applications Class Reference

Inheritance diagram for decoder. Applications:



Collaboration diagram for decoder. Applications:



Static Public Attributes

• int **ETSY** = 1

The documentation for this class was generated from the following file:

• wolff_api_plugins/server/decoder.py

3.7 response_handler.CheckListingStockResponseHandler Class Reference

Public Member Functions

- def __init__ (self, db_connection)
- def handle_response (self, resp_message, client_id)

The documentation for this class was generated from the following file:

· wolff_api_plugins/server/response_handler.py

3.8 client.Client Class Reference

Public Member Functions

- def __init__ (self, connection=None, endpoint=None, credentials=None, client_id=1, message_
 type=Message)
- def set_connection (self, server_connection)
- def get id (self)
- def set_id (self, id)
- def get_connection (self)
- def has_connection (self)
- · def set_endpoint (self, endpoint)
- def get_endpoint (self)
- def set_credentials (self, credential)
- def get_credentials (self)
- def specialize (self)
- def get_message_type (self)
- def __init__ (self, cli_id, resources, base_path='.')
- def instantiate_resources (self, resources, base)
- def get_id (self)
- def get_resource (self, service, resource)

3.8.1 Detailed Description

```
A client sends messages to a server, and receives them.

Clients are specialized by specifying connection, endpoint, and credentials. Connection allows clients to send messages over different backbones, endpoint defines what type of client this is (Etsy, Weebly, etc.), and credentials (Typicall Oauth) identify a user using a service.

A client has a certain number of resources that are each stored in a file at a path.
```

3.8.2 Constructor & Destructor Documentation

3.8.2.1 __init__()

3.8.3 Member Function Documentation

3.8.3.1 get_connection()

3.8.3.2 has_connection()

```
def client.Client.has_connection ( self\ ) Determine whether the client has a connection.   
@returns True if the client has a connection, False otherwise.
```

3.8.3.3 instantiate_resources()

3.8.3.4 set_connection()

The documentation for this class was generated from the following file:

· wolff_api_plugins/client/client.py

3.9 client_manager.ClientManager Class Reference

Public Member Functions

- def __init__ (self, client_dir, db_connection)
- def get_client_by_id (self, client_id)
- def check_existing_client (self, client_id)
- def get_client_by_service_identifier (self, service, identifier, identifier_value)
- def get_clients (self)
- def register_existing_client (self, new_client)
- def register_client (self, resources)

Public Attributes

conn

3.9.1 Detailed Description

A ClientManager handles clients and the resources that they use. Each managed client has a number of resources that allow the client to have persistent data.

3.9.2 Constructor & Destructor Documentation

3.9.3 Member Function Documentation

3.9.3.1 check_existing_client()

3.9.3.2 get_client_by_service_identifier()

3.9.3.3 register_client()

3.9.3.4 register_existing_client()

The documentation for this class was generated from the following file:

· wolff_api_plugins/server/client_manager.py

3.10 response_handler.CreateListingResponseHandler Class Reference

Public Member Functions

- def __init__ (self, db_connection)
- def handle_response (self, resp_message, client_id)

The documentation for this class was generated from the following file:

· wolff_api_plugins/server/response_handler.py

3.11 decoder.DecoderFactory Class Reference

Public Member Functions

- def get_decoder (self, message)
- def get service (self, message)

3.11.1 Detailed Description

```
Returns a decoder based upon the service specified in the encoded method

Oparam message the message for which a decoder is reduced
Oreturns A decoder that can decode the message
```

3.11.2 Member Function Documentation

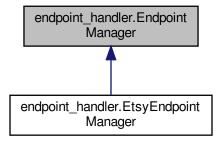
3.11.2.1 get_service()

The documentation for this class was generated from the following file:

wolff_api_plugins/server/decoder.py

3.12 endpoint_handler.EndpointManager Class Reference

Inheritance diagram for endpoint_handler.EndpointManager:



Public Member Functions

def __init__ (self)

The documentation for this class was generated from the following file:

• wolff_api_plugins/server/endpoint_handler.py

3.13 decoder.EtsyDecoder Class Reference

Classes

• class Services

Public Member Functions

- def __init__ (self)
- def is_etsy_message (self, message)
- def get_service_decoder (self, message)
- def **decode** (self, message)
- def decode_update_listing_message (self, message)

Public Attributes

- · title_map
- · description_map
- who_made_map
- when_made_map

3.13.1 Detailed Description

```
A class that is capable of decoding messages for the Etsy service.  \\
```

3.13.2 Constructor & Destructor Documentation

3.13.3 Member Function Documentation

3.13.3.1 decode_update_listing_message()

3.13.3.2 get_service_decoder()

The documentation for this class was generated from the following file:

wolff_api_plugins/server/decoder.py

3.14 encoder.EtsyEncoder Class Reference

Classes

class Services

Public Member Functions

- def __init__ (self)
- def encode (self, etsy_data)

Public Attributes

- · title_map
- · description_map
- who_made_map
- · when_made_map

3.14.1 Detailed Description

```
An EtsyDecode handles the details required for the encoding and decoding of Etsy message, including the maps necessary for mapping strings -> byte values in the encoded message
```

3.14.2 Constructor & Destructor Documentation

3.14.3 Member Function Documentation

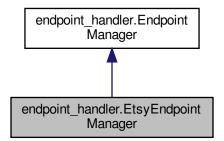
3.14.3.1 encode()

The documentation for this class was generated from the following file:

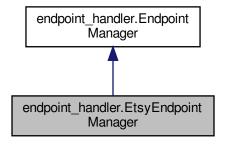
· wolff_api_plugins/client/encoder.py

3.15 endpoint_handler.EtsyEndpointManager Class Reference

Inheritance diagram for endpoint_handler.EtsyEndpointManager:



Collaboration diagram for endpoint_handler.EtsyEndpointManager:



Public Member Functions

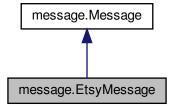
- def __init__ (self)
- def get_base_url (self)
- def get_method (self, method_name)

The documentation for this class was generated from the following file:

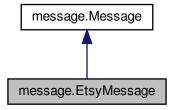
• wolff_api_plugins/server/endpoint_handler.py

3.16 message.EtsyMessage Class Reference

Inheritance diagram for message. EtsyMessage:



Collaboration diagram for message. EtsyMessage:



Public Member Functions

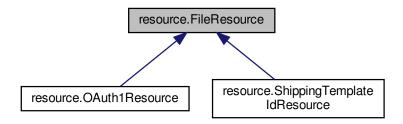
- def __init__ (self, data)
- def __str__ (self)
- · def encode (self)

The documentation for this class was generated from the following file:

wolff_api_plugins/client/message.py

3.17 resource.FileResource Class Reference

Inheritance diagram for resource. FileResource:



Public Member Functions

```
def __init__ (self, resource_id, base_path, resource_name="resource.txt", values=None, root_path='.')
def contains (self, val)
def get_data (self)
def read (self)
def write (self, str_data)
def get_file_name (self)
def get_full_path (self, include_trailing=True)
def get_full_file_path (self)
def __eq__ (self, other)
def __ne__ (self, other)
```

3.17.1 Detailed Description

```
A FileResource is a resource that is located in a file. This class provides methods for creation, editing, etc. of FileResources.
```

3.17.2 Constructor & Destructor Documentation

3.17.3 Member Function Documentation

3.17.3.1 contains()

```
def resource.FileResource.contains (
             self,
              val)
Determine if this resource contains a value.
This method is generally not useful for the base class.
3.17.3.2 get_data()
def resource.FileResource.get_data (
              self )
Return the data stored in this
resource, reading it from the file if
necessary
3.17.3.3 get_file_name()
def resource.FileResource.get_file_name (
              self )
Get the filename for the resource,
without any of the leading path information.
Returns:
  the name of the file this resource is associated with
3.17.3.4 get_full_file_path()
def resource.FileResource.get_full_file_path (
             self )
Get the entire path of the resource.
```

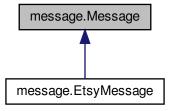
3.17.3.5 get_full_path()

The documentation for this class was generated from the following file:

· wolff api plugins/server/resource.py

3.18 message.Message Class Reference

Inheritance diagram for message. Message:



Public Member Functions

- def __init__ (self, data)
- def get_data (self)
- def __str__ (self)
- · def encode (self)

3.18.1 Constructor & Destructor Documentation

3.18.2 Member Function Documentation

```
3.18.2.1 get_data()
```

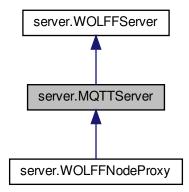
```
\operatorname{def} message.Message.get_data ( self \ ) Get the data that is
```

The documentation for this class was generated from the following file:

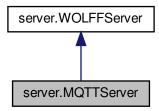
wolff_api_plugins/client/message.py

3.19 server.MQTTServer Class Reference

Inheritance diagram for server.MQTTServer:



Collaboration diagram for server.MQTTServer:



Public Member Functions

- def __init__ (self, db_connection, ip, port, update_port, channels=None)
- def start (self, timeout=60)
- def handle_update_requests (self)
- def get_client (self)
- def add channel (self, channel)
- def add_channels (self, channels)

Public Attributes

- · on_connect
- · on_message

3.19.1 Detailed Description

An MQTTServer that performs requests on behalf of the user, similar to the base WOLFFServer. However, this server interacts with the client through an MQTT broker.

Incoming messages are expected to have the form $posts/client_x$, where x uniquely identifies a client.

The server expects any requests coming from a client to be in the 'posts/#' topic. The response will be sent to the client via the 'response/client_x' topic.

3.19.2 Member Function Documentation

3.19.2.1 start()

```
def server.MQTTServer.start ( self, \\ timeout = 60 \ ) Start the server, running continuously. Server will handle requests on behalf of the user via the MQTT broker.
```

The documentation for this class was generated from the following file:

• wolff_api_plugins/server/server.py

3.20 server_connection.MQTTServerConnection Class Reference

Public Member Functions

- def __init__ (self, ip="127.0.0.1", port=0, timeout=60)
- def get_channels (self)
- def get_ip (self)
- def get port (self)
- def get_timeout (self)
- def get_received_messages (self)
- def check_for_messages (self)
- def get_client (self, connect=False)
- def subscribe_to (self, topic)
- def send (self, message)

Public Attributes

- · on_message
- · on_connect
- · on_disconnect

3.20.1 Detailed Description

```
A delay-tolerant connection to an MQTT broker. Clients can send a message to the broker and check to see if any responses have been sent.
```

3.20.2 Member Function Documentation

3.20.2.1 check_for_messages()

```
def server_connection.MQTTServerConnection.check_for_messages (
              self )
Check if our message queue has had any items placed into it.
Uses this class' mutex to avoid race conditions with the message-watch thread.
@note Calling this method clears the cache of any existing messages
@returns A list of string messages that have been received by the client
3.20.2.2 get_client()
def server_connection.MQTTServerConnection.get_client (
              self,
              connect = False )
Return this class' client, optionally connect
to the MQTT broker
If connect is true, a thread will be started that
watches for messages.
3.20.2.3 send()
def server_connection.MQTTServerConnection.send (
              self,
              message )
Sends a message to the broker through the client.
Subscribes to the topic where the response will be sent.
Oparam message The message to send
@returns status of the attempt to send the message
```

The documentation for this class was generated from the following file:

· wolff_api_plugins/client/server_connection.py

3.21 oauth_credentials.OAuth1Credentials Class Reference

Public Member Functions

```
    def __init__ (self, api_key="", api_secret="", access_token="", access_secret="")
    def get from file (self, fname)
```

- def set_client_info (self, client_key, client_secret)
- def set_resource_owner_info (self, resource_owner_token, resource_owner_secret)
- def as_dict (self)

Public Attributes

- · client_key
- · client_secret
- · resource owner key
- · resource_owner_secret

3.21.1 Member Function Documentation

```
3.21.1.1 as_dict()
def oauth_credentials.OAuth1Credentials.as_dict (
             self )
Return the dictionary representation of
this object.
Returns:
 Dictionary representing this object,
  for example:
   { 'resource_owner_secret': 'adfsdfsdflflslflds' }
3.21.1.2 get_from_file()
def oauth_credentials.OAuth1Credentials.get_from_file (
              self,
              fname )
Parse oauth credentials from a file.
The file must be tab-delimited with two columns,
one for each item used in the authentication
process. The first column must have names that correspond
to the items needed for authentication, e.g.:
  - client_key
  - client_secret
  - resource_owner_token
  - resource_owner_secret
3.21.1.3 set_client_info()
def oauth_credentials.OAuth1Credentials.set_client_info (
              self,
              client_key,
              client_secret )
Set the client information (token and secret) for
this class
Args:
  client_token: the client token to set.
  acccess_secret: the client secret to set.
```

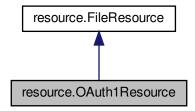
3.21.1.4 set_resource_owner_info()

The documentation for this class was generated from the following file:

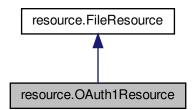
· wolff_api_plugins/client/oauth_credentials.py

3.22 resource.OAuth1Resource Class Reference

Inheritance diagram for resource. OAuth1Resource:



Collaboration diagram for resource. OAuth1Resource:



Public Member Functions

```
def __init__ (self, resource_id, base_path, root_path='.', values=None)
def read (self)
def write (self, values, override=False)
def __hash__ (self)
```

3.22.1 Constructor & Destructor Documentation

3.22.2 Member Function Documentation

```
3.22.2.1 read()
```

```
def resource.OAuthlResource.read ( self \ ) Read the value for the resouce from a file.   
@returns A dictionary containing the necessary key/value pairs for OAuthl identification.
```

3.22.2.2 write()

The documentation for this class was generated from the following file:

· wolff_api_plugins/server/resource.py

3.23 resource.ResourceFactory Class Reference

Public Member Functions

def get (str_type)

The documentation for this class was generated from the following file:

· wolff_api_plugins/server/resource.py

3.24 response_handler.ResponseHandler Class Reference

Public Member Functions

```
• def __init__ (self, db_conn)
```

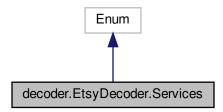
• def get_handler (self, data_dict)

The documentation for this class was generated from the following file:

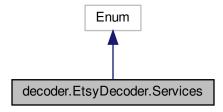
wolff_api_plugins/server/response_handler.py

3.25 decoder. Etsy Decoder. Services Class Reference

Inheritance diagram for decoder. EtsyDecoder. Services:



Collaboration diagram for decoder. EtsyDecoder. Services:



Public Member Functions

• def has_value (cls, value)

Static Public Attributes

- int CREATE_LISTING = 1
- int CHECK_LISTING_STOCK = 2
- int **UPDATE_LISTING** = 3

3.25.1 Detailed Description

An enum listing the services that are currently available.

3.25.2 Member Function Documentation

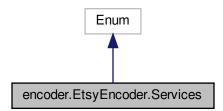
3.25.2.1 has_value()

The documentation for this class was generated from the following file:

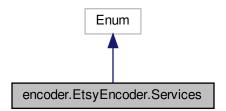
· wolff_api_plugins/server/decoder.py

3.26 encoder.EtsyEncoder.Services Class Reference

Inheritance diagram for encoder. Etsy Encoder. Services:



Collaboration diagram for encoder. Etsy Encoder. Services:



Static Public Attributes

• int CREATE_LISTING = 1

3.26.1 Detailed Description

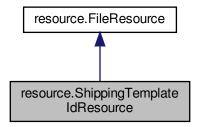
An enum detailing the services that are currently supported by the ${\tt Encoder}$

The documentation for this class was generated from the following file:

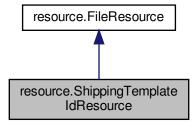
· wolff_api_plugins/client/encoder.py

3.27 resource.ShippingTemplateIdResource Class Reference

Inheritance diagram for resource. Shipping TemplateId Resource:



Collaboration diagram for resource. Shipping TemplateId Resource:



Public Member Functions

- def __init__ (self, resource_id, base_path, root_path='.', values=None)
- def write (self, values, override=False)
- def read (self)
- def __hash__ (self)

3.27.1 Detailed Description

```
A resource representing the ShippingTemplateId for Etsy's create listing method.
```

The documentation for this class was generated from the following file:

• wolff_api_plugins/server/resource.py

3.28 DBConnection.SQLite3DBConnection Class Reference

Public Member Functions

- def __init__ (self, file_name)
- def add_listing (self, listing_id, client_id)
- def get_client_by_listing_id (self, listing_id)
- · def get_listing_id (self, record_id)
- def get_listing_stock (self, record_id)
- def update listing stock (self, record id, quantity)
- def add_listing_stock (self, record_id, quantity)
- def get_record_id (self, listing_id)

Public Attributes

- · db_file_name
- conn

The documentation for this class was generated from the following file:

· wolff_api_plugins/server/DBConnection.py

3.29 server_connection.TCPServerConnection Class Reference

Public Member Functions

- def __init__ (self, ip="127.0.0.1", port=0)
- def get_ip (self)
- def get_port (self)
- def send (self, message)

3.29.1 Detailed Description

```
A connection to a server that takes place over the TCP/IP stack using TCP.
```

3.29.2 Member Function Documentation

```
3.29.2.1 get_ip()
def server_connection.TCPServerConnection.get_ip (
                                                                                                                                                                                   self )
Return the (IPv4) IP this connection will
bind to when a connection is initialized % \left( 1\right) =\left( 1\right) \left( 1\right
3.29.2.2 get_port()
{\tt def server\_connection.TCPServerConnection.get\_port\ (}
                                                                                                                                                                                     self )
Return the port this connection will bind to
when initiating a connection.
3.29.2.3 send()
def server_connection.TCPServerConnection.send (
                                                                                                                                                                                self,
                                                                                                                                                                                message )
```

The documentation for this class was generated from the following file:

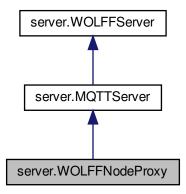
wolff_api_plugins/client/server_connection.py

Sends an object of type message to the specified TCP ip address over the specified port.

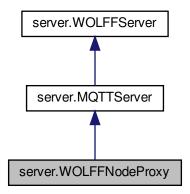
Waits for a specified amount of time for a response from the server, disconnects after waiting and not getting a response.

3.30 server.WOLFFNodeProxy Class Reference

Inheritance diagram for server.WOLFFNodeProxy:



Collaboration diagram for server.WOLFFNodeProxy:



Public Member Functions

- def __init__ (self, client_ip="127.0.0.1", client_port=5555, broker_ip="127.0.0.1", broker_port=1883, chan-nels=None)
- def get_client_ip (self)
- def get_client_port (self)
- def decode_data (self, encoded_message)
- def do_request (self, data, topic)
- def start (self)

Public Attributes

- · client_ip
- client port
- broker_ip
- · broker_port
- cond
- · message_buffer
- on_connect

Note: topic is of the form /posts/client_x, where x is the ID for the client.

· on message

3.30.1 Detailed Description

```
A WOLFFNodeProxy is a MQTTServer that sends requests on behalf of a user to the WOLFF gateway through MQTT via TCP/IP.

Incoming messages are expected to have the form posts/client_x, where x uniquely identifies a client.

The server expects any requests coming from a client to be in the 'posts/#' topic.

The response will be sent to the client via the 'response/client_x' topic.
```

3.30.2 Member Function Documentation

3.30.2.1 do_request()

3.30.2.2 start()

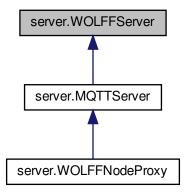
```
def server.WOLFFNodeProxy.start ( self \ ) Start the server, allow it to run continuously. Requests will be forwarded to the MQTT broker on behalf of the user.
```

The documentation for this class was generated from the following file:

• wolff_api_plugins/server/server.py

3.31 server.WOLFFServer Class Reference

Inheritance diagram for server. WOLFFServer:



Public Member Functions

- def __init__ (self, db_connection, ip="127.0.0.1", port=5555)
- def get_ip (self)
- def set_ip (self, ip)
- def **set_port** (self, port)
- def get_port (self)
- def encode_data (self, data)
- def decode_data (self, data)
- def do_request (self, data_dict)
- def start (self)
- def get_request_handler (self, credentials)
- def annotate_data (self, data_dict, client_manager)

Public Attributes

- ip
- port
- conn

3.31.1 Detailed Description

A server for handling messages sent over the WOLFF network.

3.31.2 Member Function Documentation

3.31.2.1 annotate_data()

```
def server.WOLFFServer.annotate_data (
             self.
             data_dict,
             client_manager )
Annotate a data dictionary with client and
service-specific information that comes from the
message.
@pre data_dict contains the following:
   ('api_details': ('etsy', 'create_listing'),
    'message': {'title': 'title_1', 'description': 'desc_1',
       'quantity': 1, 'price': 16.04, 'who_made': 'collective',
        'when_made': '1990s', 'is_supply': 1, 'shipping_template_id': 76575991147
      }
'api_details' is a tuple containing the service and method
being used.
Any non-dictionary values are examples,
and will be dependent upon the message itself, but the
keys are required. 'Message' will be dependent upon
the service/method used.
@post data_dict contains:
{'api_details': ('etsy', 'create_listing'),
 'message': {'title': 'title_1', 'description': 'desc_1',
     'quantity': 1, 'price': 16.04, 'who_made': 'collective',
     'when_made': '1990s', 'is_supply': 1, 'shipping_template_id': 76575991147
   }.
 'method': {'http_method': 'post'},
 'url': 'https://openapi.etsy.com/v2/listings/',
 'resource_owner_secret': ''
'client_id': 'client_x'
The values of method, url, and credentials are again dependent upon
api_details and mesage
@param client_manager A client manager that
      can be used to identify clients based
      upon a service.
@param A dictionary containing the data from a
      decoded message
{\tt @returns} a dictionary that is ready to be sent
 as an api request by do_request
3.31.2.2 decode data()
def server.WOLFFServer.decode_data (
             self,
             data )
Decode a message, generating a dictionary of
arguments and their values.
Details of the encoded message can be found here:
https://github.com/CANIS-NAU/WOLFF_Protocol/wiki
```

3.31.2.3 do_request()

3.31.2.4 get_request_handler()

3.31.2.5 start()

```
def server.WOLFFServer.start ( self \ ) Start the server, allow it to run continuously. Requests will be performed on behalf of users, and responses will be forwarded.
```

The documentation for this class was generated from the following file:

· wolff api plugins/server/server.py

Index

init	decoder.Applications, 9
api_map::APIMap, 6	decoder.DecoderFactory, 15
client::Client, 10	decoder.EtsyDecoder, 16
client_manager::ClientManager, 13	decoder.EtsyDecoder.Services, 33
decoder::EtsyDecoder, 17	decoder::DecoderFactory
encoder::EtsyEncoder, 18	get_service, 15
message::Message, 25	decoder::EtsyDecoder
resource::FileResource, 22	init, 17
resource::OAuth1Resource, 31	decode_update_listing_message, 17
, , ,	get_service_decoder, 17
annotate_data	decoder::EtsyDecoder::Services
server::WOLFFServer, 40	has_value, 34
api_hook.APIHook, 5	do_request
api_hook.APIMethod, 6	server::WOLFFNodeProxy, 39
api_hook::APIMethod	server::WOLFFServer, 41
get_http_method, 7	301701770211 001701, 11
get_uri, 7	encode
api_map.APIMap, 5	encoder::EtsyEncoder, 18
api_map::APIMap	encoder.Applications, 8
init, 6	encoder.EtsyEncoder, 18
api_method.APIMethod, 8	encoder.EtsyEncoder.Services, 34
as_dict	encoder::EtsyEncoder
oauth_credentials::OAuth1Credentials, 29	init, 18
oautii_credentiaisOAutii i oredentiais, 29	encode, 18
check_existing_client	endpoint_handler.EndpointManager, 16
client_manager::ClientManager, 13	endpoint_handler.EtsyEndpointManager, 19
check_for_messages	endpoint_nandier.LtsyEndpointivianager, 19
server_connection::MQTTServerConnection, 27	get_client
client.Client, 10	server_connection::MQTTServerConnection, 28
client::Client	get_client_by_service_identifier
	client_manager::ClientManager, 13
init, 10	get_connection
get_connection, 11	client::Client, 11
has_connection, 11	
instantiate_resources, 11	get_data message::Message, 25
set_connection, 12	
client_manager.ClientManager, 12	resource::FileResource, 23
client_manager::ClientManager	get_file_name
init, 13	resource::FileResource, 23
check_existing_client, 13	get_from_file
get_client_by_service_identifier, 13	oauth_credentials::OAuth1Credentials, 29
register_client, 14	get_full_file_path
register_existing_client, 14	resource::FileResource, 23
contains	get_full_path
resource::FileResource, 22	resource::FileResource, 23
	get_http_method
DBConnection.SQLite3DBConnection, 36	api_hook::APIMethod, 7
decode_data	get_ip
server::WOLFFServer, 41	server_connection::TCPServerConnection, 37
decode_update_listing_message	get_port
decoder::EtsvDecoder, 17	server_connection::TCPServerConnection. 37

44 INDEX

get_request_handler	server_connection::TCPServerConnection, 37
server::WOLFFServer, 42	server.MQTTServer, 25
get_service	server.WOLFFNodeProxy, 38
decoder::DecoderFactory, 15	server.WOLFFServer, 40
get_service_decoder	server::MQTTServer
decoder::EtsyDecoder, 17	start, 26
get_uri	server::WOLFFNodeProxy
api_hook::APIMethod, 7	do_request, 39
	start, 39
has_connection	server::WOLFFServer
client::Client, 11	annotate_data, 40
has_value	decode_data, 41
decoder::EtsyDecoder::Services, 34	do_request, 41
instantiata, resources	get_request_handler, 42
instantiate_resources	start, 42
client::Client, 11	server_connection.MQTTServerConnection, 27
message.EtsyMessage, 20	server_connection.TCPServerConnection, 36
message.Message, 24	server_connection::MQTTServerConnection
message::Message	check_for_messages, 27
init, 25	get_client, 28
get_data, 25	send, 28
got_data, 20	server_connection::TCPServerConnection
oauth credentials.OAuth1Credentials, 28	get_ip, 37
oauth_credentials::OAuth1Credentials	get_port, 37
as_dict, 29	send, 37
get_from_file, 29	set_client_info
set_client_info, 29	oauth_credentials::OAuth1Credentials, 29
set_resource_owner_info, 29	set_connection
,	client::Client, 12
read	set_resource_owner_info
resource::FileResource, 24	oauth_credentials::OAuth1Credentials, 29
resource::OAuth1Resource, 31	start
register_client	server::MQTTServer, 26
client_manager::ClientManager, 14	server::WOLFFNodeProxy, 39
register_existing_client	server::WOLFFServer, 42
client_manager::ClientManager, 14	
resource.FileResource, 21	write
resource.OAuth1Resource, 30	resource::OAuth1Resource, 31
resource.ResourceFactory, 32	
resource.ShippingTemplateIdResource, 35	
resource::FileResource	
init, 22	
contains, 22	
get_data, 23	
get_file_name, 23	
get_full_file_path, 23	
get_full_path, 23	
read, 24	
resource::OAuth1Resource init, 31	
read, 31	
write, 31	
response_handler.CheckListingStockResponseHandler,	
10	
response_handler.CreateListingResponseHandler, 15 response_handler.ResponseHandler, 32	
send	
server_connection::MQTTServerConnection, 28	