
webapi Documentation

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nate skulic

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A framework to build web (json-rpc) APIs.

Project on google code: <https://code.google.com/p/webapi/>

Quick Start

Defining messages and a service:

```
class TestRequest(messages.Message):
    string = messages.StringField(1)

class TestResponse(messages.Message):
    string = messages.StringField(1)

@webapi.package('examplepackage')
class ExampleService(object):

    @webapi.method(TestRequest, TestResponse, 'examplemethod')
    def test(self, request):
        """ an identity function """
        assert isinstance(request, TestRequest)
        return TestResponse(string=request.string)
```

Building a wsgi application:

```
API = webapi.api([ExampleService], 'exampleapi', 'v1')

routes = [
    webapp2.Route('/rpc', webapi.rpc_handler(API))
]
app = webapp2.WSGIApplication(routes)
```

The api should be available at /rpc.

A method exampleapi.examplepackage.examplemethod should be available to callers.

Exporting a discovery application

Define in python:

```
API = webapi.api([TestService], 'testapi', 'v1')  
api_directory_app = webapi.APIDirectory([API])
```

Register with app.yaml to match the path /discovery/*.

Using the javascript client.

Using the basic client

Include the compiled script.

Installing:

```
var RPC_URL = '/rpc';  
  
webapi.client.install(new webapi.RpcClient(RPC_URL));
```

Calling a method:

```
var METHOD = 'exampleapi.examplepackage.examplermethod'  
  
var req = webapi.client.rpc(METHOD, {'string': 'test'});  
  
req.addCallback(function(resp) {  
    // this should return "test"  
    console.log(resp)  
});  
  
req.addErrback(function(resp) {  
    // jsonrpc error objects can be handled here  
    console.error(resp)  
});
```

Using the directory client

Include the compiled script.

Installing:

```
var RPC_URL = '/rpc';  
webapi.client.install(new webapi.DiscoveryClient());
```

Loading an api (from a directory):

```
webapi.client.load(apiName, apiVersion, root)
```

Loading a rest description (from a json object):

```
webapi.client.loadDescription(rawRestDescription)
```

After loading an api its methods will be exported to the webapi namespace. For example:

```
var request = webapi.apiname.package.method();
```

Executing an rpc method (manually):

```
var request = webapi.client.rpc(methodId, params);
```

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