JSON-WSP

(JavaScript Object Notation Web-Service Protocol)

JSON-WSP

Web service protocol that uses JSON for

- service description
- requests
- responses

Similar to JSON-RPC

Objects

JSON-WSP specifies four JSON objects:

- description
- request
- response
- fault

Communication

- HTTP GET?
 - Response: 'Requests for HelloService jsonwsp interface must be posted'
- HTTP POST!

Service description

It can describe itself (methods, types...) like

- WSDL for SOAP
- IDL for CORBA

Description

```
"version": "1.1",
  "url": "http://localhost:8888/HelloService/jsonwsp",
  "servicename": "HelloService",
  "type": "jsonwsp/description",
  "types": {
        //types
},
  "methods": {
        //methods
}
```

Description types

```
"types": {
//types
}
```

```
"Attack": {
    "damage": {
        "type": "number"
    },
    "name": {
        "type": "string"
    }
}
```

Description methods

```
"methods": {
  "pokemon": {
    "ret_info": {
      "doc_lines": [],
      "type": "Pokemon"
    "doc_lines": [],
    "params": {
      "name": {
        "def_order": 1,
        "doc_lines": [],
        "type": "string",
        "optional": false
```

Request

Response

Faults

Fault codes

- incompatible
- server
- client

Fault

```
"type": "jsonwsp/fault",
"version": "1.0",
"fault": {
    "code": "client",
    "string": "Too much hp",
    "detail": [
    "filename": "pokemonservice",
    "lineno": 34,
    "hint": ""
"reflection": "1"
```

Attachments

- In description can be used as a primitive type
- The MIME Multipart/Related Content-type

Ladon

- Web service framework
- Python
- Protocols
 - JSON-WSP
 - XML-RPC
 - JSON-RPC
 - SOAP

Instructions

https://github.com/KrzysztofR-PUT/jsonwsp