



ODOO JSON RPC

Access Odoo's Method and Data anytime, anywhere through JSON

Call following urls :

url = 'http://localhost:8888/json-call'

login_url = 'http://localhost:8888/json-call/user_authenticate'

logout_url = 'http://localhost:8888/json-call/user_logout'

Here,

1. replace <http://localhost:8888> to your domain name like <http://www.techultrasolutions.com/>
2. Login url is user authenticate url, that will be returning token and odoo user id, this token can be used to call all odoo services.
3. Logout url is used to remove token for particular user.

Get Token:

For get token use this script

```
import requests
login_url = 'http://localhost:8888/json-call/user_authenticate'
headers = {
    'Content-Type': "application/json",
}
data = {
    "jsonrpc": "2.0",
    "params": {
        "login": "admin", // Odoo User name
        "password": 'a', // Password of user
        "db": 'json_rpc_10', // Database Name
    }
}
req = requests.post(login_url,json=data, headers=headers)
response = req.json()
```

Response will returning {u'jsonrpc': u'2.0', u'id': None, u'result': {u'token': u'361d1546f5eedbef1e699f7a30fc820304be27e573428abf673a9dcd10d9d30c', u'uid': 1}}, **we can get Token from response also the same can be done using Odoo user-id**

Terminate Token:

To remove token use this script

```
import requests
url = 'http://localhost:8888/json-call/user_logout'
headers = {
    'Content-Type': "application/json",
}
data = {
    "jsonrpc": "2.0",
    "params": {"token": token, // Token }
}
response = requests.post(url,json=data, headers=headers)
response = response.json()
```

Response will returning {u'jsonrpc': u'2.0', u'id': None, u'result': True} **and will remove Token in Odoo.**

Calling Odoo Services:

Using token we can call any odoo service.

For ex:

```
payload = {
    "jsonrpc": "2.0",
    "params": {
        "token": token, // Token
        "model": "res.partner", // Odoo Model
        "method": "create", // Odoo method
        "Args": [{"name": "Demo"}], // Arguments for that method
        "context": {}
    }
}
response = requests.post(url,json=payload, headers=headers)
response = response.json()
```

Following are the parameters we need pass as a json while calling the web-service:

Token	user identified by the token
Model	model name
Method	method name
Args	Arguments of odoo method
Context	Context for Odoo method

Create method

Input Parameters

Post JSON Body:

```
{
  "jsonrpc": "2.0",
  "params": {
    "token": "60bce39cba884673f7f105662cb0f6b7",
    "model": "res.partner", // Odoo model
    "method": "create",
    "Args": [{"name": "Demo"}], // Values
    "context": {}
  }
}
```

Output:

```
{
  "jsonrpc": "2.0",
  "id": null,
  "result": 47 //Odoo id
}
```

Write(Update) Method

Input Parameters:

Post JSON Body:

```
{
  "jsonrpc": "2.0",
  "params": {
    "token": "b58dceb5f5b1fc68f7e47e97b4d67e0",
    "model": "res.users",
    "method": "write",
    "args": [[8],{"name": "odoo"}] // [] is list of odoo ids
    and {} values in dictionary which want to write(update)
    "context": {}
  }
}
```

Output :

```
{
  "jsonrpc": "2.0",
  "id": null,
  "result": true
}
```

Unlink(Delete) method

Input Parameters:

Post JSON Body: {

```
  "jsonrpc": "2.0",
  "params": {
    "token": "b58dceb5f5b1fc68f7e",
    "model": "res.users",
    "method": "unlink",
    "args": [8] // Ids to be removed
    "context": {}
  }
}
```

Output :

```
{
  "jsonrpc": "2.0",
  "id": null,
  "result": true
}
```

Search method

Input Parameters:

Post JSON Body: {

```
  "jsonrpc": "2.0",
  "params": {
    "token": "b58dceb5f5b1fc68f7e47e97b4d67e0f",
    "model": "res.users",
    "method": "search",
    "args": [[["id", "=", "1"]]], // Domain in odoo
    "context": {}
  }
}
```

Output :

```
{
  "jsonrpc": "2.0",
  "id": null,
  "result": [1,7,5,9] // List of odoo ids
}
```

name_get method

Input Parameters:

Post JSON Body:

```
{
  "jsonrpc": "2.0",
  "params": {
    "token": "b58dceb5f5b1fc68f7e47e97b4d67e",
    "model": "res.users",
    "method": "name_get",
    "args": [9], // List of odoo ids
    "context": {}
  }
}
```

Output :

```
{
  "jsonrpc": "2.0",
  "id": null,
  "result": [[9, "hello" ]] // List of ids with Record name
}
```

read(self, fields)method

Input Parameters:

Post JSON Body:

```
{
  "jsonrpc": "2.0",
  "params": {
    "token": "b58dceb5f5b1fc68f7e47e97b4d6",
    "model": "res.users",
    "method": "read",
    "args": [9] // List of Odoo ids
    "context": {}
  }
}
```

```
}
```

Output : {

```
"jsonrpc": "2.0",
"id": null,
"result": [ // List of record data
{
  "signup_valid": false,
  "sale_warn": "no-message",
  "sale_order_count": 0,
  "bank_account_count": 0,
  "alias_id": false,
  "write_uid": [ 1, "Administrator"],
  "contact_address": "\n\n \n",
  "property_product_pricelist": [1,"Public Pricelist (INR)" ],
  "signup_url":
"http://localhost:8069/web/login?login=hello%40.in&db=json_token",
  "journal_item_count": 0,
  "parent_name": false,
  "tz": "Europe/Brussels",
  "opt_out": false,
  "title": false,
  "sel_groups_1": 1,
  "company_id": [ 1, "YourCompany"],
  "commercial_company_name": false,
  "parent_id": false,
  "contracts_count": 0,
  "employee": false,
  "property_supplier_payment_term_id": false,
  "fax": false,
  "channel_ids": [],
  "in_group_32": false,
  "child_ids": [],
  "company_ids": [1],
  "user_ids": [9 ],
  "password": "",
  "Image_medium": "....."
  "name": "hello",
  "in_group_15": false,
  "debit_limit": 0,
```

```
"in_group_16": false,
"signup_token": false,
"contract_ids": [],
"commercial_partner_id": [46, "hello"],
"message_follower_ids": [114 ],
"create_date": "2018-01-23 07:39:07",
"notify_email": "always",
"message_needaction": false,
"login_date": false,
"has_unreconciled_entries": false,
"currency_id": [21,"INR"],
"street": false,
"partner_id": [46, "hello" ],
"sale_team_id": false,
"in_group_8": true,
"in_group_9": false,
"in_group_6": false,
"in_group_7": true,
"in_group_5": false,
"country_id": false,
"tz_offset": "+0100",
"state": "new",
"debit": 0,
"supplier": false,
"message_unread_counter": 0,
"ref": false,
"email": "esfd",
"action_id": false,
"city": false,
"street2": false,
"barcode": false,
"active": true,
"display_name": "hello",
"signup_expiration": false,
"issued_total": 0,
"message_is_follower": true,
"sel_groups_19_20_21": 21,
"__last_update": "2018-01-23 07:39:07",
"credit": 0,
```



```
"message_bounce": 0,
"is_company": false,
"login": "hello@.in",
"message_unread": false,
"message_needaction_counter": 0,
"comment": false,
"groups_id": [23,24,22,8,1,21,29,7,20,19],
"color": 0,
"Image": "....."
"in_group_14": false,
"invoice_ids": [],
"team_id": false,
"in_group_17": false,
"in_group_10": false,
"in_group_11": false,
"in_group_12": false,
"in_group_13": false,
"total_invoiced": 0,
"trust": "normal",
"in_group_18": false,
"property_payment_term_id": false,
"password_crypt":
"$pbkdf2-sha512$25000$AqC01npPyRIjJHEOoTQGwA$rGjU6JrCkrD0LV
W5FY0yomFjlsJ0L4V15Etxff/UfY34jY.WrnS41Srw4lg.0OG7ctjePiRFD2iU
k/0gkog4Hw",
"create_uid": [ 1,"Administrator"],
"user_id": false,
"zip": false,
"ref_company_ids": [],
"message_last_post": false,
"email_formatted": "hello <esfd>",
"im_status": "offline",
"last_time_entries_checked": false,
"type": "contact",
"in_group_34": false,
"vat": false,
"website": false,
"in_group_28": false,
"payment_token_count": 0,
```



```
"company_type": "person",
"in_group_25": false,
"in_group_27": false,
"in_group_26": false,
"in_group_29": true,
"phone": false,
"payment_token_ids": [],
"customer": true,
"sale_order_ids": [],
"Image_small": "....."
"state_id": false,
"companies_count": 1,
"invoice_warn_msg": false,
"function": false,
"property_account_payable_id": [25,"112110 Creditors"],
"sel_groups_22_23_24": 24,
"message_channel_ids": [],
"message_partner_ids": [3],
"in_group_35": false,
"share": false,
"in_group_33": false,
"in_group_30": false,
"in_group_31": false,
"signup_type": false,
"property_account_receivable_id": [3,"100400 Debtors"],
"id": 9,
"new_password": false,
"invoice_warn": "no-message",
"message_ids": [198, 197],
"property_account_position_id": false,
"company_name": false,
"log_ids": [],
"bank_ids": [],
"alias_contact": false,
"signature": "<p><br></p>",
"write_date": "2018-01-23 07:39:07",
"date": false,
"category_id": [],
"lang": "en_US",
```

```
"credit_limit": 0,  
"mobile": false,  
"sel_groups_3_4": false,  
"partner_share": false,  
"sale_warn_msg": false,  
"self": [ 46,"hello" ]  
}  
]  
}
```

search_read method

Input Parameters

Post JSON Body:{

```
"jsonrpc": "2.0",  
"params": {  
  "token": "b58dceb5f5b1fc68f7e47e97b4d",  
  "model": "res.users",  
  "method": "search_read",  
  "args": [[["id", "=", "1"]]] // Domain  
  "context": {}  
}  
}
```

Output:

```
{  
  "jsonrpc": "2.0",  
  "id": null,  
  "result": [ // List of record data  
    {  
      "signup_valid": false,  
      "sale_warn": "no-message",  
      "sale_order_count": 0,  
      "bank_account_count": 0,  
      "alias_id": false,  
      "write_uid": [ 1, "Administrator"],  
      "contact_address": "YourCompany\n215 Vine  
St\n\nScranton PA 18503\nUnited States",  
      "property_product_pricelist": [1, "Public Pricelist (INR)" ],  
    }  
  ]  
}
```



```
"signup_url":  
"http://localhost:8069/web/login?login=admin&db=json_token",  
  "journal_item_count": 0,  
  "parent_name": false,  
  "tz": "Europe/Brussels",  
  "opt_out": false,  
  "title": false,  
  "sel_groups_1": 1,  
  "company_id": [1,"YourCompany"],  
  "commercial_company_name": "YourCompany",  
  "parent_id": false,  
  "contracts_count": 0,  
  "employee": false,  
  "property_supplier_payment_term_id": false,  
  "fax": false,  
  "channel_ids": [1],  
  "in_group_32": false,  
  "child_ids": [],  
  "company_ids": [1],  
  "user_ids": [1],  
  "password": "",  
  "Image_medium": "....."  
  "name": "Administrator",  
  "in_group_15": false,  
  "debit_limit": 0,  
  "in_group_16": false,  
  "signup_token": false,  
  "contract_ids": [],  
  "commercial_partner_id": [3, "YourCompany,  
Administrator"],  
  "message_follower_ids": [],  
  "create_date": false,  
  "notify_email": "none",  
  "message_needaction": false,  
  "login_date": "2018-01-24 08:33:26",  
  "has_unreconciled_entries": false,  
  "currency_id": [21, "INR"],  
  "street": "215 Vine St",  
  "partner_id": [3,"YourCompany, Administrator"],
```



```
"sale_team_id": [1, "Direct Sales" ],
"in_group_8": true,
"in_group_9": false,
"in_group_6": false,
"in_group_7": true,
"in_group_5": false,
"country_id": [235,"United States" ],
"tz_offset": "+0100",
"state": "active",
"debit": 0,
"supplier": false,
"message_unread_counter": 0,
"ref": false,
"email": "admin@yourcompany.example.com",
"action_id": false,
"city": "Scranton",
"street2": false,
"barcode": false,
"active": true,
"display_name": "Administrator",
"signup_expiration": false,
"issued_total": 0,
"message_is_follower": false,
"sel_groups_19_20_21": 21,
"__last_update": "2018-01-22 06:55:18",
"credit": 0,
"message_bounce": 0,
"is_company": false,
"login": "admin",
"message_unread": false,
"message_needaction_counter": 0,
"comment": false,
"groups_id": [3,22,8,1,21,4,29,19],
"color": 0,
"Image": "....."
"in_group_14": false,
"invoice_ids": [],
"team_id": false,
"in_group_17": false,
```



```
"in_group_10": false,
"in_group_11": false,
"in_group_12": false,
"in_group_13": false,
"total_invoiced": 0,
"trust": "normal",
"in_group_18": false,
"property_payment_term_id": false,
"password_crypt":
"$pbkdf2-sha512$25000$6/3/n3NOyfmfMwbgPGcMAQ$6cJn1/HYm
nwKU3Z23poXWwdm7OdxHdMrjiTLgx5/re/zWymXWH6EwxrUiXce
haUxKHf6KwddTUd01J9YgLiMQw",
"create_uid": false,
"user_id": false,
"zip": "18503",
"ref_company_ids": [],
"message_last_post": false,
"email_formatted": "Administrator
<admin@yourcompany.example.com>",
"im_status": "online",
"last_time_entries_checked": false,
"type": "contact",
"in_group_34": false,
"vat": false,
"website": false,
"in_group_28": false,
"payment_token_count": 0,
"company_type": "person",
"in_group_25": false,
"in_group_27": false,
"in_group_26": false,
"in_group_29": true,
"phone": "+1 555-555-5555",
"payment_token_ids": [],
"customer": false,
"sale_order_ids": [],
"Image_small": "....."
"state_id": [47,"Pennsylvania" ],
"companies_count": 1,
```



```
"invoice_warn_msg": false,
"function": false,
"property_account_payable_id": [25,"112110 Creditors"],
"sel_groups_22_23_24": 22,
"message_channel_ids": [],
"message_partner_ids": [],
"in_group_35": false,
"share": false,
"in_group_33": false,
"in_group_30": false,
"in_group_31": false,
"signup_type": false,
"property_account_receivable_id": [3, "100400 Debtors" ],
"id": 1,
"new_password": false,
"invoice_warn": "no-message",
"message_ids": [],
"property_account_position_id": false,
"company_name": "YourCompany",
"log_ids": [2 ],
"bank_ids": [],
"alias_contact": false,
"signature": "<span data-o-mail-quote=\"1\">--- <br
data-o-mail-quote=\"1\">\nAdministrator</span>",
"write_date": "2018-01-22 06:55:18",
"date": false,
"category_id": [],
"lang": "en_US",
"credit_limit": 0,
"mobile": false,
"sel_groups_3_4": 4,
"partner_share": false,
"sale_warn_msg": false,
"self": [3, "YourCompany, Administrator"]
}
]
}
```

Create python file:

```
import requests

url = "http://localhost:8888/json-call"
login_url = 'http://localhost:8888/json-call/user_authenticate'
logout_url = 'http://localhost:8888/json-call/user_logout'
headers = {
    'Content-Type': "application/json",
}

data = {
    "jsonrpc": "2.0",
    "params": {
        "login": "kazi",
        "password": 'a',
        "db": 'json_rpc_10',
    }
}

response = requests.post(login_url,json=data, headers=headers)
response = response.json()

if response.get('result') and response.get('result').get('token'):
    token = str(response.get('result').get('token'))
    payload = {
        "jsonrpc": "2.0",
        "params": {
            "token": token,
            "model": "res.partner",
            "method": "create",
            "args":
                [{
                    "name": "mustufa"
                }],
            "context": {}
        }
    }
    response = requests.post(url,json=payload, headers=headers)
    response = response.json()
```

Create python file:

Import requests: to handle data transmission between website and python file.

Import json: to access data that is received or submitted to website from python

File.



Url: provide url that call api.

Headers: 'Content-Type': "application/json"

Payload: It will define data which has to be extracted. E.x
Payload = {
 "Jsonrpc" : "2.0",
 "Params" : TOKEN_ID, MODEL_NAME,
 METHOD_NAME,args:[search criteria]
}

Response: The data received after api call from server will be catch in response.x