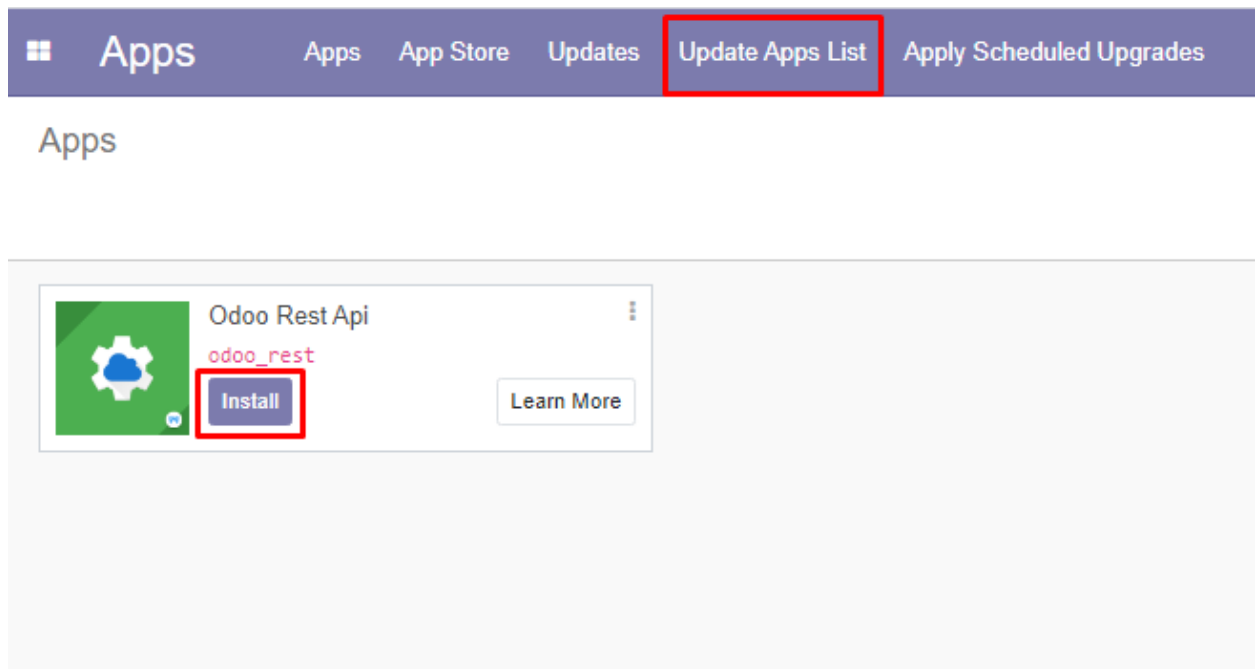# Odoo Rest Documentation

Setup
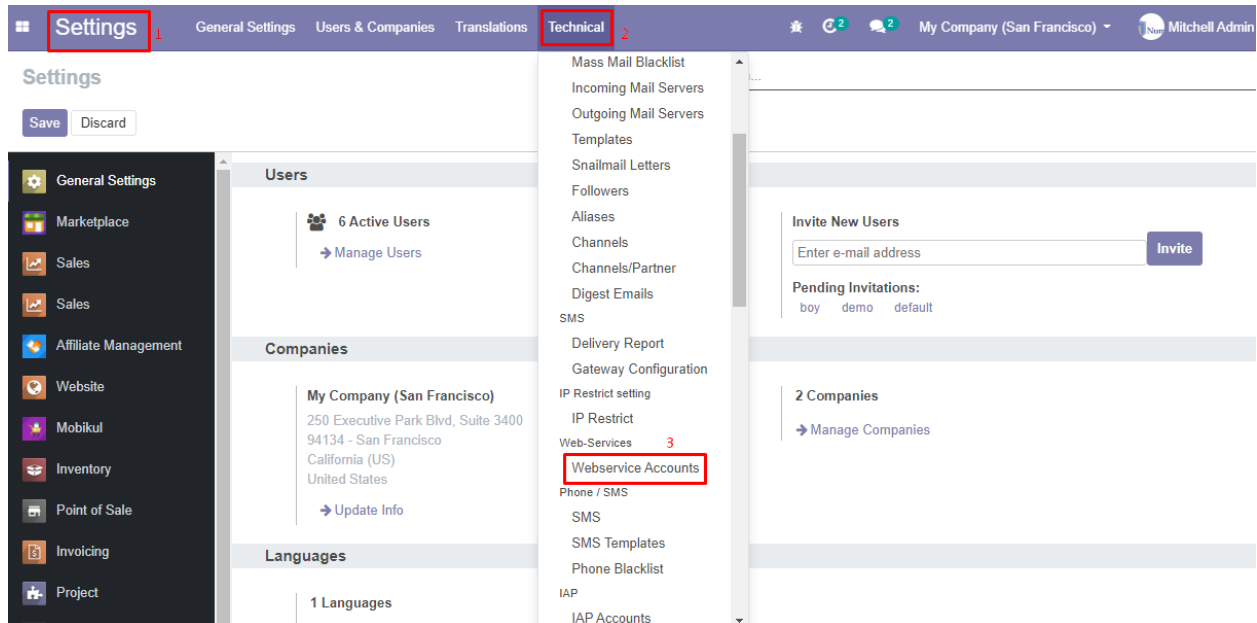
Step 1:

      i.   Move the module to your custom addons path.

     ii.   Restart the server.

   iii.   Update the module app list.

   iv.   Install the module.

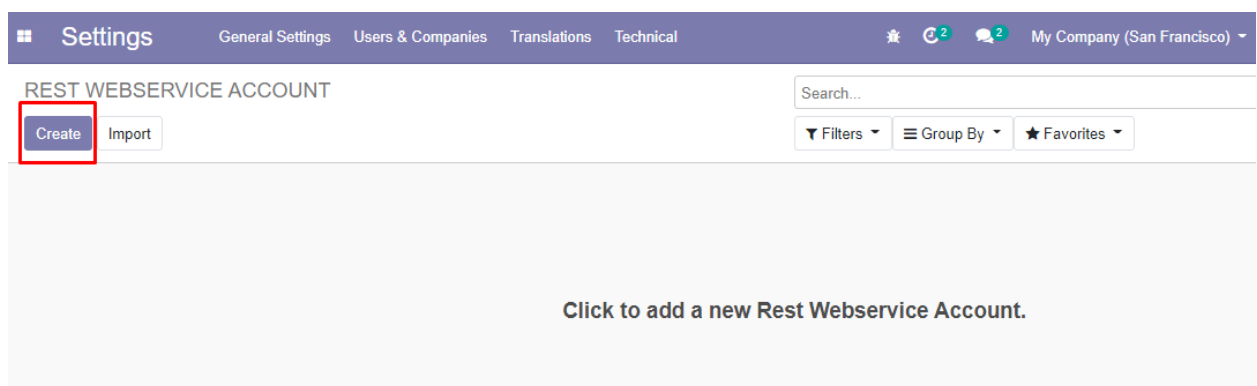## Step 2:

Go to Settings (in debug mode) --> Technical --> Webservices Accounts
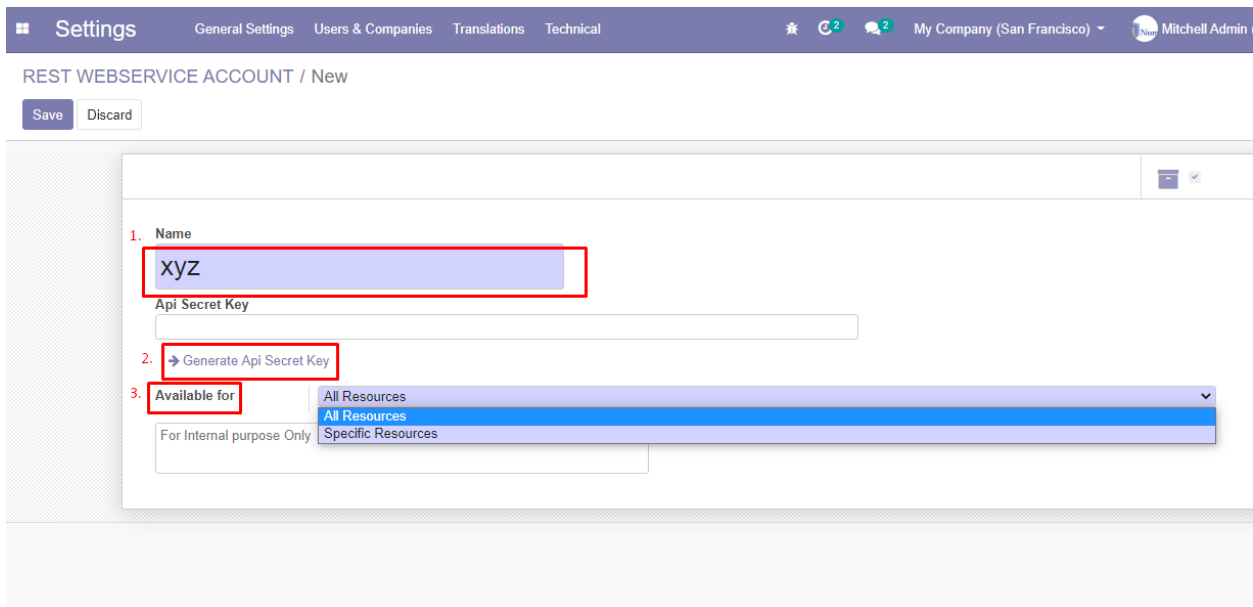
Step 3:

Create a Webservice record.

Step 4:

     i.   Fill the name field with any text data of your choice.

    ii.   Click on the button "Generate Api Secret Key".

    iii.   Set the option for "Available Resources".

        a. All Resources

        b. Specific Resources

Step 4:

If selected "specific Resources".

    i.   Add the name of the model which you want to provide access to the odoo_rest modules.

    ii.   Then set the read, write, create, delete permission for that model.

JSON representation of Odoo Rest API

Example 1: Search record from product.product
Request Type : GET

Api : {base_url}}/api/{{model_name}}/search?{domain=[filter or empty]}&{ fields=list of fields name or None}

End Point :
{base_url}}/api/product.template/search?domain=[('id','in',[13,10,11,12,14])]&fields=['name','description','product_variant_ids']
Header :
{"api_key":"xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"}

Output:

```
{
                    "object_name": "product.template",
                    "responseCode": 2,
                    "fields": "['name','description','product_variant_ids']",
                    "model_id": 145,
                    "permisssions": {
                        "read": true,
                        "create": true,
                        "delete": true,
                        "write": true
                    },
                    "message": "Allowed all Models Permission: all",
                    "success": true,
                    "domain": "[('id','in',[13,10,11,12,14])]",
                    "data": [
                        {
                            "id": 11,
                            "name": "Bose Mini Bluetooth Speaker",
                            "description": false,
                            "product_variant_ids": [
                                {
                                    "id": 14,
                                    "name": "Bose Mini Bluetooth Speaker"
                                }
                            ]
                        },
                        {
                            "id": 14,
                            "name": "iPad Mini",
                            "description": false,
                            "product_variant_ids": [
                                {
                                    "id": 17,
                                    "name": "iPad Mini"
                                }
                            ]
                        },
                        {
                            "id": 10,
                            "name": "iPad Retina Display",
                            "description": false,
                            "product_variant_ids": [
                                {
                                    "id": 10,
                                    "name": "iPad Retina Display"
                                },
                                {
                                    "id": 11,
                                    "name": "iPad Retina Display"
                                },
                                {
                                    "id": 12,
                                    "name": "iPad Retina Display"
                                }
                            ]
                        },
                        {
                            "id": 12,
                            "name": "Custom Computer (kit)",
                            "description": "Custom computer shipped in kit.",
                            "product_variant_ids": [
                                {
                                    "id": 15,
                                    "name": "Custom Computer (kit)"
                                }
```

```
                                        ]
                            },
                            {
                                "id": 13,
                                "name": "Parts Replacement",
                                "description": false,
                                "product_variant_ids": [
                                    {
                                        "id": 16,
                                        "name": "Parts Replacement"
                                    }
                                ]
                            }
                    ]}
```

Example 2: Get schema for table product.product
Request Type : GET
Api: {{base_url}}/api/{{model_name}}/schema
End Point : {{base_url}}/api/res.lang/schema
Header :
{"api_key":"xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"}

```
{
                    "responseCode": 2,
                    "model_id": 73,
                    "permisssions": {
                        "read": true,
                        "create": true,
                        "delete": true,
                        "write": true
                    },
                    "message": "Allowed all Models Permission: all",
                    "object_name": "res.lang",
                    "success": true,
                    "data": [
                        {
                            "field_type": "char",
                            "label": "Name",
                            "readonly": false,
                            "required": true,
                            "field_name": "name"
                        },
                        {
                            "field_type": "char",
                            "label": "Locale Code",
                            "readonly": false,
                            "required": true,
                            "field_name": "code"
                        },
                        {

                            "field_type": "char",
                            "label": "ISO code",
                            "readonly": false,
                            "required": false,
```

```
                                                 "field_name": "iso_code"
                            },
                            {
                                "field_type": "boolean",
                                "label": "Translatable",
                                "readonly": false,
                                "required": false,
                                "field_name": "translatable"
                            },
                            {
                                "field_type": "boolean",
                                "label": "Active",
                                "readonly": false,
                                "required": false,
                                "field_name": "active"
                            },
                            {
                                "readonly": false,
                                "field_name": "direction",
                                "field_type": "selection",
                                "label": "Direction",
                                "required": true,
                                "selection": [
                                    [
                                        "ltr",
                                        "Left-to-Right"
                                    ],
                                    [
                                        "rtl",
                                        "Right-to-Left"
                                    ]
                                ]
                            },
                            {
                                "field_type": "char",
                                "label": "Date Format",
                                "readonly": false,
                                "required": true,
                                "field_name": "date_format"
                            },
                            {
                                "field_type": "char",
                                "label": "Time Format",
                                "readonly": false,
                                "required": true,
                                "field_name": "time_format"
                            },
                            {
                                "field_type": "char",
                                "label": "Separator Format",
                                "readonly": false,
                                "required": true,
                                "field_name": "grouping"
                            },
                            {
                                "field_type": "char",
                                "label": "Decimal Separator",
                                "readonly": false,
                                "required": true,
                                "field_name": "decimal_point"
                            },
                            {
                                "field_type": "char",
                                "label": "Thousands Separator",
                                "readonly": false,
```

```
                        "required": false,
                        "field_name": "thousands_sep"
                },
                {
                        "field_type": "integer",
                        "label": "ID",
                        "readonly": true,
                        "required": false,
                        "field_name": "id"
                },
                {
                        "field_type": "char",
                        "label": "Display Name",
                        "readonly": true,
                        "required": false,
                        "field_name": "display_name"
                },
                {
                        "field_type": "many2one",
                        "label": "Created by",
                        "readonly": false,
                        "required": false,
                        "field_name": "create_uid"
                },
                {
                        "field_type": "datetime",
                        "label": "Created on",
                        "readonly": false,
                        "required": false,
                        "field_name": "create_date"
                },
                {
                        "field_type": "many2one",
                        "label": "Last Updated by",
                        "readonly": false,
                        "required": false,
                        "field_name": "write_uid"
                },
                {
                        "field_type": "datetime",
                        "label": "Last Updated on",
                        "readonly": false,
                        "required": false,
                        "field_name": "write_date"
                },
                {
                        "field_type": "datetime",
                        "label": "Last Modified on",
                        "readonly": true,
                        "required": false,
                        "field_name": "__last_update"
                }
        ]
}
```

Exapmle 3: Create a record of product.template
Request Type : POST

Api: : {{base_url}}/api/{{model_name}}/create

Body :{ "field_name":"field_value",….,…..}
End Point: {{base_url}}/api/product.template/create

Body :{"name":"test"}
Header :
{"api_key":"xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"}

OUTPUT:

```
response : {
                    "responseCode": 2,
                    "model_id": 145,
                    "permisssions": {
                        "read": true,
                        "create": true,
                        "delete": true,
                        "write": true
                    },
                    "message": "Allowed all Models Permission: all",
                    "create_id": 75,
                    "object_name": "product.template",
                    "success": true
                }
```

Exapmle 4: Get a record of sale.order.line
Request Type :GET

Api: {{base_url}}/api/{{model_name}}/<int: record_id>
End Point : {{base_url}}/api/sale.order.line/<int: record_id>
Header :
{"api_key":"xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"}

OUTPUT:

```
{
                    "object_name": "sale.order.line",
                    "responseCode": 2,
                    "model_id": 241,
                    "record_id": 2,
                    "message": "Allowed all Models Permission: all",
                    "success": true,
                    "permisssions": {
                        "read": true,
                        "create": true,
                        "delete": true,
                        "write": true
                    },
                    "data": [
                        {
                            "sequence": 10,
                            "__last_update": "2017-10-04 11:28:01",
                            "is_downpayment": false,
                            "price_tax": 0,
                            "customer_lead": 0,
                            "create_uid": [
                                {
                                    "id": 1,
                                    "name": "Administrator"
                                }
                            ],
                            "price_unit": 145,
                            "product_qty": 5,
                            "salesman_id": [
                                {
                                    "id": 5,
                                    "name": "Demo User"
                                }
                            ],
                            "amt_invoiced": 0,
                            "id": 2,
                            "product_packaging": [],
                            "qty_delivered": 0,
                            "price_reduce_taxinc": 145,
                            "price_reduce": 145,
                            "price_total": 725,
                            "move_ids": [],
                            "layout_category_id": [],
                            "route_id": [],
                            "create_date": "2017-10-04 11:28:01",
                            "currency_id": [
                                {
                                    "id": 1,
                                    "name": "EUR"
                                }
                            ],
                            "product_id": [
                                {
                                    "id": 5,
                                    "name": "Datacard"
                                }
                            ],
                            "write_date": "2017-10-04 11:28:01",
                            "warning_stock": false,
                            "amt_to_invoice": 725,
                            "price_reduce_taxexcl": 145,
```

```
                    "write_uid": [
                        {
                            "id": 1,
                            "name": "Administrator"
                        }
                    ],
                    "company_id": [
                        {
                            "id": 1,
                            "name": "YourCompany"
                        }
                    ],
                    "name": "Pen drive, 16GB",
                    "product_uom_qty": 5,
                    "qty_to_invoice": 0,
                    "price_subtotal": 725,
                    "is_delivery": false,
                    "invoice_status": "no",
                    "product_uom": [
                        {
                            "id": 1,
                            "name": "Unit(s)"
                        }
                    ],
                    "qty_invoiced": 0,
                    "state": "draft",
                    "order_id": [
                        {
                            "id": 1,
                            "name": "SO001"
                        }
                    ],
                    "display_name": "Pen drive, 16GB",
                    "order_partner_id": [
                        {
                            "id": 9,
                            "name": "Agrolait"
                        }
                    ],
                    "product_image":""
                    "layout_category_sequence": 0,
                    "discount": 0,
                    "qty_delivered_updateable": false
                }
            ]
        }
```

Exapmle 5: Update a record of product.template
Type : PUT

Api : {{base_url}}/api/{{model_name}}/<int: record_id>

Body:{"field_name":"field_value"}

End Point : {{base_url}}/api/product.template/<int: record_id>

Header :

{"api_key":"xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"}

Body:{"name":"Test Product"}

OUTPUT:

```
{
                "responseCode": 2,
                "model_id": 145,
                "permisssions": {
                    "read": true,
                    "create": true,
                    "delete": true,
                    "write": true
                },
                "message": "Allowed all Models Permission: all",
                "create_id": 75,
                "object_name": "product.template",
                "success": true
            }
```

Exapmle 6: Delete a record of product.template
Request Type : DELETE

Api : {{base_url}}/api/{{model_name}}/<int: record_id>
End Point : {{base_url}}/api/product.template/<int: record_id>
Header :
{"api_key":"xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"}

OUTPUT:

```
response : {
                "responseCode": 2,
                "model_id": 145,
                "permisssions": {
                    "read": true,
                    "create": true,
                    "delete": true,
                    "write": true
```

```
        },
        "message": "Allowed all Models Permission: all",
        "object_name": "product.template",
        "success": true
    }
```

Exapmle 7: Trigger your odoo actions.
Request Type : POST

Api : {{base_url}}/api/{{model_name}}/execute_kw

Body :
{"method":"method_name","args":"arguments",kw":{}}
End Point : {{base_url}}/api/res.partner/execute_kw
Header :
{"api_key":"xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"}
Body : {"method":"name_get","args":[[2]],"kw":{}}

OUTPUT:

```
{
            "model_id": 74,
            "success": true,
            "message": "Method Successfully Called",
            "result": [
                [
                    2,
                    "OdooBot"
                ]
            ],
            "responseCode": 2,
            "permisssions": {
                "read": true,
                "write": true,
                "delete": true,
                "create": true
            },
            "object_name": "res.partner"
        }
```