

# Dancing with the Magento 2 APIs

A guided tour of the API dance floor

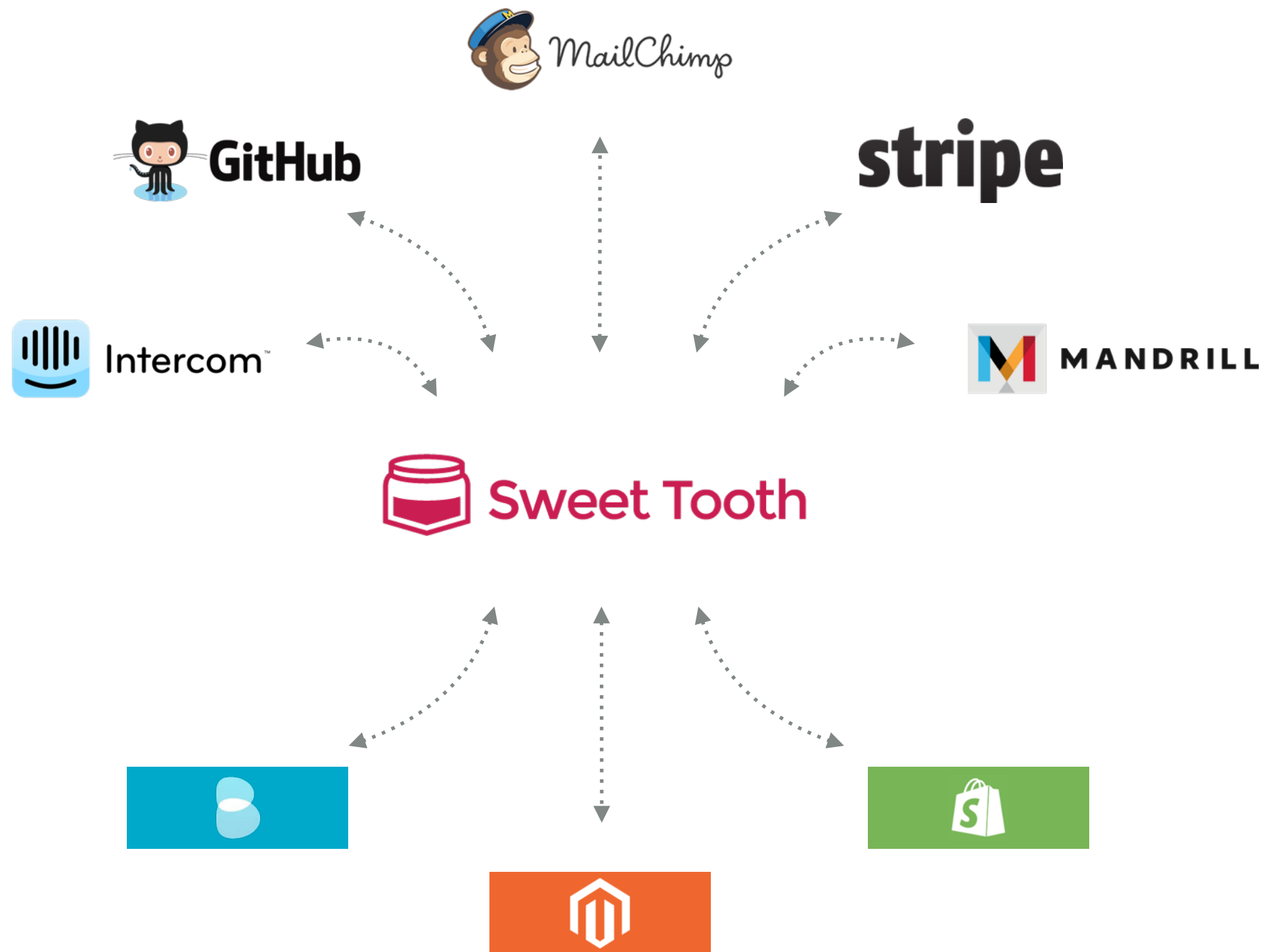


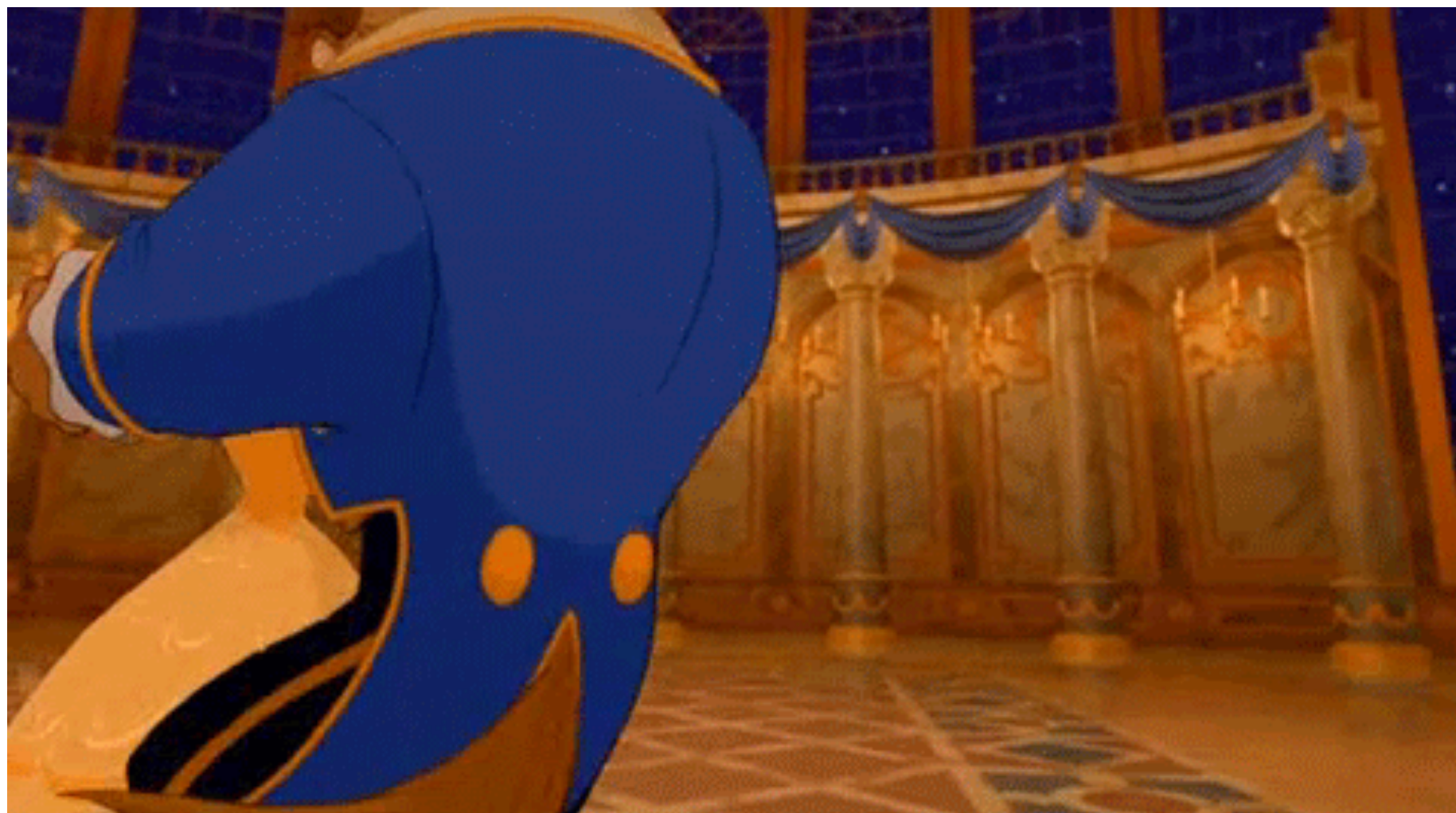


**Bill Curtis**

CTO - Sweet Tooth













# Overview

- Use cases for using the Magento 2 API
- How to make API calls
- Extending the API
- Tooling & Resources

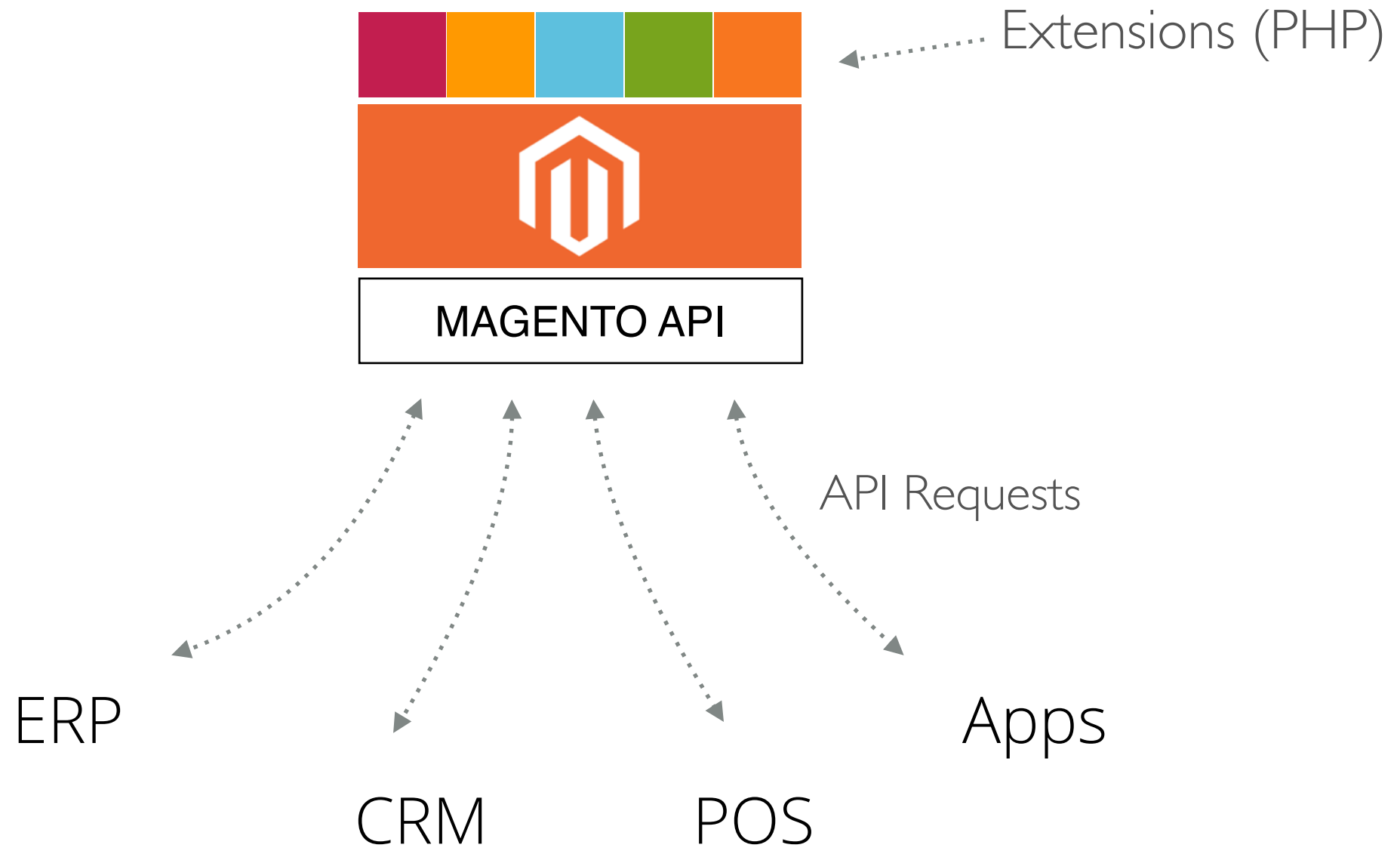


# Use cases

What is the Magento API used for?







# How to make Magento 2 API calls

- SOAP vs REST
- XML vs JSON
- Overview of CRUD actions
- Search
- Authentication



# ~~SOAP~~ vs REST



# ~~XML~~ vs JSON



# REST + JSON ❤️





# Anatomy of the API request

```
curl -X "POST" "http://myshop.com/rest/V1/customers" \  
  -H "Authorization: Bearer npgir0blm27g5s297k0qjrxbda84xjve" \  
  -H "Content-Type: application/json" \  
  -H "Accept: application/json" \  
  -d $'{  
    "customer": {  
      "email": "jdoe@example.com",  
      "firstname": "John",  
      "lastname": "Doe"  
    }  
  }'
```



# Anatomy of the API request

```
curl -X "POST" "http://myshop.com/rest/V1/customers" \  
  -H "Authorization: Bearer npgir0blm27g5s297k0qjrxbda84xjve" \  
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  -H "Accept: application/json" \  
  -d $'{  
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      "lastname": "Doe"  
    }  
  }'
```



# Anatomy of the API request

```
curl -X "POST" "http://myshop.com/rest/V1/customers" \
-H "Authorization: Bearer npgir0b7m27g5s297k0qjrxbaa84xjve" \
-H "Content-Type: application/json" \
-H "Accept: application/json" \
-d '${
  "customer": {
    "email": "jdoe@example.com",
    "firstname": "John",
    "lastname": "Doe"
  }
}'
```



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  "customer": {  
    "email": "jdoe@example.com",  
    "firstname": "John",  
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}'
```



# Anatomy of the API request

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curl -X "POST" "http://myshop.com/rest/V1/customers" \  
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-H "Content-Type: application/json" \  
-H "Accept: application/json" \  
-d $'{  
  "customer": {  
    "email": "jdoe@example.com",  
    "firstname": "John",  
    "lastname": "Doe"  
  }  
}'
```





# Anatomy of the API request

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curl -X "POST" "http://myshop.com/rest/V1/customers" \  
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  -H "Content-Type: application/json" \  
  -H "Accept: application/json" \  
  -d $'{  
    "customer": {  
      "email": "jdoe@example.com",  
      "firstname": "John",  
      "lastname": "Doe"  
    }  
  }'
```



# Anatomy of the API request

```
curl -X "POST" "http://myshop.com/rest/V1/customers" \  
  -H "Authorization: Bearer npgir0blm27g5s297k0qjrxbda84xjve" \  
  -H "Content-Type: application/json" \  
  -H "Accept: application/json" \  
  -d $'{  
    "customer": {  
      "email": "jdoe@example.com",  
      "firstname": "John",  
      "lastname": "Doe"  
    }  
  }'
```



REST APIs support **CRUD** operations

**C**reate   **R**ead   **U**ppdate   **D**elete





Create customer .....▶ POST v1/customers {...}



Read customer .....▶ GET v1/customers/1



Update customer .....▶ PUT v1/customers/1 {...}



Delete customer .....▶ DELETE v1/customers/1



# CRUD - Create a customer

## REQUEST

POST /rest/V1/customers

```
{
  "customer": {
    "email": "jdoe@example.com",
    "firstname": "John",
    "lastname": "Doe"
  }
}
```

## RESPONSE

200 OK

```
{
  "customer": {
    "id": 6,
    "group_id": 1,
    "created_at": "2016-04-10 01:57:51",
    "updated_at": "2016-04-10 01:57:51",
    "created_in": "Default Store View",
    "email": "jdoe@example.com",
    "firstname": "Jane",
    "lastname": "Doe",
    "store_id": 1,
    "website_id": 1,
    "addresses": [],
    "disable_auto_group_change": 0
  }
}
```





# CRUD - Read a customer

## REQUEST

```
GET /rest/V1/customers/6
```

## RESPONSE

200 OK

```
{
  "id": 6,
  "group_id": 1,
  "created_at": "2016-04-10 01:57:51",
  "updated_at": "2016-04-10 01:57:51",
  "created_in": "Default Store View",
  "email": "jdoe@example.com",
  "firstname": "John",
  "lastname": "Doe",
  "store_id": 1,
  "website_id": 1,
  "addresses": [],
  "disable_auto_group_change": 0
}
```



# CRUD - Update a customer

## REQUEST

PUT /rest/V1/customers/6

```
{
  "customer": {
    "id": 6,
    "group_id": 1,
    "created_at": "2016-04-10 01:57:51",
    "updated_at": "2016-04-10 01:57:51",
    "created_in": "Default Store View",
    "email": "jdoe@example.com",
    "firstname": "Jane",
    "lastname": "Doe",
    "store_id": 1,
    "website_id": 1,
    "addresses": [],
    "disable_auto_group_change": 0
  }
}
```

## RESPONSE

200 OK

```
{
  "id": 6,
  "group_id": 1,
  "created_at": "2016-04-10 01:57:51",
  "updated_at": "2016-04-10 02:05:59",
  "created_in": "Default Store View",
  "email": "jdoe@example.com",
  "firstname": "Jane",
  "lastname": "Doe",
  "store_id": 1,
  "website_id": 1,
  "addresses": [],
  "disable_auto_group_change": 0
}
```



# CRUD - Delete a customer

## REQUEST

DELETE /rest/V1/customers/6

## RESPONSE

200 OK

true



REST is an architectural **style**



## Customer

```
GET    /V1/customers/:customerId
POST   /V1/customers
PUT     /V1/customers/:id
PUT     /V1/customers/me
GET     /V1/customers/me
PUT     /V1/customers/me/activate
GET     /V1/customers/search
PUT     /V1/customers/:email/activate
PUT     /V1/customers/me/password
GET     /V1/customers/:customerId/password/resetLinkToken/:resetPasswordLinkToken
PUT     /V1/customers/password
GET     /V1/customers/:customerId/confirm
POST    /V1/customers/confirm
PUT     /V1/customers/validate
GET     /V1/customers/:customerId/permissions/readonly
DELETE  /V1/customers/:customerId
POST    /V1/customers/isEmailAvailable
GET     /V1/customers/addresses/:addressId
GET     /V1/customers/me/billingAddress
GET     /V1/customers/:customerId/billingAddress
GET     /V1/customers/me/shippingAddress
GET     /V1/customers/:customerId/shippingAddress
```

<http://devdocs.magento.com/guides/v2.0/rest/list.html>





## Catalog

```
POST /V1/products
PUT /V1/products/:sku
DELETE /V1/products/:sku
GET /V1/products
GET /V1/products/:sku
GET /V1/products/attributes/types
GET /V1/products/attributes/:attributeCode
GET /V1/products/attributes
```

## Sales

```
GET /V1/orders/:id
GET /V1/orders
GET /V1/orders/:id/statuses
POST /V1/orders/:id/cancel
POST /V1/orders/:id/emails
POST /V1/orders/:id/hold
POST /V1/orders/:id/unhold
POST /V1/orders/:id/comments
GET /V1/orders/:id/comments
PUT /V1/orders/create
```

## Store

```
GET /V1/store/storeViews
GET /V1/store/storeGroups
GET /V1/store/websites
GET /V1/store/storeConfigs
```

## SalesRule

```
GET /V1/salesRules/:ruleId
GET /V1/salesRules/search
POST /V1/salesRules
PUT /V1/salesRules/:ruleId
DELETE /V1/salesRules/:ruleId
GET /V1/coupons/:couponId
GET /V1/coupons/search
POST /V1/coupons
PUT /V1/coupons/:couponId
DELETE /V1/coupons/:couponId
POST /V1/coupons/generate
POST /V1/coupons/deleteByIds
POST /V1/coupons/deleteByCodes
```





What about customer search?





**Search** customers .....▶ GET v1/customers/search



?

GET /V1/**cmsPage**/search  
GET /V1/**cmsBlock**/search  
GET /V1/**customerGroups**/search  
GET /V1/**customers**/search  
GET /V1/**carts**/search  
GET /V1/**salesRules**/search  
GET /V1/**coupons**/search  
GET /V1/**taxRates**/search  
GET /V1/**taxRules**/search  
GET /V1/**taxClasses**/search

GET /V1/**products**  
GET /V1/**categories**



# Search customers

## REQUEST

GET /V1/customers/search

## RESPONSE

400 Bad Request

```
{
  "message": "%fieldName is a required field.",
  "parameters": {
    "fieldName": "searchCriteria"
  }
}
```



# Search customers

## REQUEST

```
GET /V1/customers/search
?searchCriteria=
```

## RESPONSE

200 OK

```
{
  "items": [
    {
      "id": 2,
      "group_id": 1,
      "created_at": "2016-03-28 17:40:37",
      "updated_at": "2016-03-28 17:40:37",
      "created_in": "Default Store View",
      "email": "wcurtis@sweettoothhq.com",
      "firstname": "Bill",
      "lastname": "Curtis",
      "store_id": 1,
      "website_id": 1,
      "addresses": [],
      "disable_auto_group_change": 0
    }
  ],
  "search_criteria": {
    "filter_groups": []
  },
  "total_count": 1
}
```



**?searchCriteria=**

The most powerful query param in the world



# Search criteria

```
{
  "search_criteria": {
    "filter_groups": [
      {
        "filters": [
          {
            "field": "updated_at",
            "value": "2016-03-28 17:40:37",
            "condition_type": "gte"
          }
        ]
      }
    ],
    "sort_orders": [
      {
        "field": "updated_at",
        "direction": "ASC"
      }
    ],
    "page_size": 1,
    "current_page": 1
  }
}
```





# Search criteria

```
{
  "search_criteria": {
    "filter_groups": [
      {
        "filters": [
          {
            "field": "updated_at",
            "value": "2016-03-28 17:40:37",
            "condition_type": "gte"
          }
        ]
      }
    ],
    "sort_orders": [
      {
        "field": "updated_at",
        "direction": "ASC"
      }
    ],
    "page_size": 1,
    "current_page": 1
  }
}
```



# Search criteria

```
{
  "search_criteria": {
    "filter_groups": [
      {
        "filters": [
          {
            "field": "updated_at",
            "value": "2016-03-28 17:40:37",
            "condition_type": "gte"
          }
        ]
      }
    ]
  },
  "sort_orders": [
    {
      "field": "updated_at",
      "direction": "ASC"
    }
  ],
  "page_size": 1,
  "current_page": 1
}
```



# Search criteria

```
{
  "search_criteria": {
    "filter_groups": [
      {
        "filters": [
          {
            "field": "updated_at",
            "value": "2016-03-28 17:40:37",
            "condition_type": "gte"
          }
        ]
      }
    ],
    "sort_orders": [
      {
        "field": "updated_at",
        "direction": "ASC"
      }
    ]
  },
  "page_size": 1,
  "current_page": 1
}
```



## Search for an email within a store id

```
{
  "search_criteria": {
    "filter_groups": [
      {
        "filters": [
          {
            "field": "email",
            "value": "wcurtis%",
            "condition_type": "like"
          }
        ]
      },
      {
        "filters": [
          {
            "field": "store_id",
            "value": "1",
            "condition_type": "eq"
          }
        ]
      }
    ],
    "page_size": 10,
    "current_page": 1
  }
}
```



## Search for an email within a store id

```
{
  "search_criteria": {
    "filter_groups": [
      {
        "filters": [
          {
            "field": "email",
            "value": "wcurtis%",
            "condition_type": "like"
          }
        ]
      },
      {
        "filters": [
          {
            "field": "store_id",
            "value": "1",
            "condition_type": "eq"
          }
        ]
      }
    ],
    "page_size": 10,
    "current_page": 1
  }
}
```



# Search within store id

```
{
  "search_criteria": {
    "filter_groups": [
      {
        "filters": [
          {
            "field": "email",
            "value": "wcurtis%",
            "condition_type": "like"
          }
        ]
      },
      {
        "filters": [
          {
            "field": "store_id",
            "value": "1",
            "condition_type": "eq"
          }
        ]
      }
    ],
    "page_size": 10,
    "current_page": 1
  }
}
```



# Search for a customer in store 1

```
{
  "search_criteria": {
    "filter_groups": [
      {
        "filters": [
          {
            "field": "email",
            "value": "wcurtis%",
            "condition_type": "like"
          }
        ]
      },
      {
        "filters": [
          {
            "field": "store_id",
            "value": "1",
            "condition_type": "eq"
          }
        ]
      }
    ]
  },
  "page_size": 10,
  "current_page": 1
}
```

AND



# Search for a yellow OR red product created this year

```
{
  "search_criteria": {
    "filter_groups": [
      {
        "filters": [
          {
            "field": "color",
            "value": "Yellow",
            "condition_type": "eq"
          },
          {
            "field": "color",
            "value": "Red",
            "condition_type": "eq"
          }
        ]
      },
      {
        "filters": [
          {
            "field": "created_at",
            "value": "2016-01-01 00:00:00",
            "condition_type": "gt"
          }
        ]
      }
    ]
  },
  "page_size": 10,
  "current_page": 1
}
```





# Search for a yellow OR red product created this year

```
{
  "search_criteria": {
    "filter_groups": [
      {
        "filters": [
          {
            "field": "color",
            "value": "Yellow",
            "condition_type": "eq"
          },
          {
            "field": "color",
            "value": "Red",
            "condition_type": "eq"
          }
        ]
      },
      {
        "filters": [
          {
            "field": "created_at",
            "value": "2016-01-01 00:00:00",
            "condition_type": "gt"
          }
        ]
      }
    ]
  },
  "page_size": 10,
  "current_page": 1
}
```



# Search for a yellow OR red product created this year

```
{
  "search_criteria": {
    "filter_groups": [
      {
        "filters": [
          {
            "field": "color",
            "value": "Yellow",
            "condition_type": "eq"
          },
          {
            "field": "color",
            "value": "Red",
            "condition_type": "eq"
          }
        ]
      },
      {
        "filters": [
          {
            "field": "created_at",
            "value": "2016-01-01 00:00:00",
            "condition_type": "gt"
          }
        ]
      }
    ]
  },
  "page_size": 10,
  "current_page": 1
}
```

OR



# Search for product

```
{
  "search_criteria": {
    "filter_groups": [
      {
        "filters": [
          {
            "field": "color",
            "value": "Yellow",
            "condition_type": "eq"
          },
          {
            "field": "color",
            "value": "Red",
            "condition_type": "eq"
          }
        ]
      },
      {
        "filters": [
          {
            "field": "created_at",
            "value": "2016-01-01 00:00:00",
            "condition_type": "gt"
          }
        ]
      }
    ]
  },
  "page_size": 10,
  "current_page": 1
}
```



# Search for product

```
{
  "search_criteria": {
    "filter_groups": [
      {
        "filters": [
          {
            "field": "color",
            "value": "Yellow",
            "condition_type": "eq"
          },
          {
            "field": "color",
            "value": "Red",
            "condition_type": "eq"
          }
        ]
      },
      {
        "filters": [
          {
            "field": "created_at",
            "value": "2016-01-01 00:00:00",
            "condition_type": "gt"
          }
        ]
      }
    ]
  },
  "page_size": 10,
  "current_page": 1
}
```



```
{
  "search_criteria": {
    "filter_groups": [
      {
        "filters": [
          {
            "field": "color",
            "value": "Yellow",
            "condition_type": "eq"
          },
          {
            "field": "color",
            "value": "Red",
            "condition_type": "eq"
          }
        ]
      },
      {
        "filters": [
          {
            "field": "created_at",
            "value": "2016-01-01 00:00:00",
            "condition_type": "gt"
          }
        ]
      }
    ],
    "page_size": 10,
    "current_page": 1
  }
}
```

.....▶

?searchCriteria=



```
GET http://<magento_host>/rest/V1/customers/search?
search_criteria[filter_groups][0][filters][0][field]=color&
search_criteria[filter_groups][0][filters][0][value]=Yellow&
search_criteria[filter_groups][0][filters][0][condition_type]=eq&
search_criteria[filter_groups][0][filters][1][field]=color&
search_criteria[filter_groups][0][filters][1][value]=Red&
search_criteria[filter_groups][0][filters][1][condition_type]=eq&
search_criteria[filter_groups][1][filters][0][field]=created_at&
search_criteria[filter_groups][1][filters][0][value]=2016-01-01 00:00:00&
search_criteria[filter_groups][1][filters][0][condition_type]=gt&
search_criteria[page_size]=10&
search_criteria[current_page]=1
```



```
1  <?php
2
3  $searchCriteria = array(
4      "search_criteria" => array(
5          "filter_groups" => array(
6              array(
7                  "filters" => array(
8                      array(
9                          "field" => "color",
10                         "value" => "Yellow",
11                         "condition_type" => "eq"
12                     )
13                 )
14             )
15         ),
16         "page_size" => 10,
17         "current_page" => 1
18     )
19 );
20
21 $queryParams = http_build_query($searchCriteria);
22
```



# Customer Search

## REQUEST

```
GET http://<magento_host>/rest/V1/customers/search?
search_criteria[filter_groups][0][filters][0][field]=updated_at&
search_criteria[filter_groups][0][filters][0][value]=2016-03-28 17:40:37&
search_criteria[filter_groups][0][filters][0][condition_type]=gte&
search_criteria[sort_orders][0][field]=updated_at&
search_criteria[sort_orders][0][direction]=ASC&
search_criteria[page_size]=1&
search_criteria[current_page]=1
```

## RESPONSE

```
{
  "items": [
    {
      "id": 2,
      "group_id": 1,
      "created_at": "2016-03-28 17:40:37",
      "updated_at": "2016-03-28 17:40:37",
      "created_in": "Default Store View",
      "email": "wcurtis@sweettoothhq.com",
      "firstname": "Bill",
      "lastname": "Curtis",
      "store_id": 1,
      "website_id": 1,
      "addresses": [],
      "disable_auto_group_change": 0
    }
  ],
  "search_criteria": {
    ...
  },
  "total_count": 1
}
```





# Authentication

How do we get this token?

```
curl -X "POST" "http://myshop.com/rest/V1/customers" \
-H "Authorization: Bearer npgir0blm27g5s297k0qjrxabda84xjve" \
-H "Content-Type: application/json" \
-H "Accept: application/json" \
-d '${
  "customer": {
    "email": "jdoe@example.com",
    "firstname": "John",
    "lastname": "Doe"
  }
}'
```



# 3 ways to authenticate

1. Username & Password
2. OAuth 1.0a
3. Session



1. Username & Password

2. OAuth 1.0a

3. Session

1st party apps / integrations



# Username & Password Authentication

## REQUEST

POST /rest/V1/integration/admin/token

```
{  
  "username": "jdoe",  
  "password": "password1"  
}
```

## RESPONSE

"pxuukor7ye7jo0ekghakeui0yvpg90yo"

POST /rest/V1/integration/customer/token

```
{  
  "username": "tom@example.com",  
  "password": "iloveshopping"  
}
```

"keui0ypxr7ye7j90youuko0ekghavpgo"



# Customer API Access

PUT	/V1/customers/ <b>me</b>
GET	/V1/customers/ <b>me</b>
PUT	/V1/customers/ <b>me</b> /activate
PUT	/V1/customers/ <b>me</b> /password
POST	/V1/carts/ <b>mine</b>
GET	/V1/carts/ <b>mine</b>
GET	/V1/carts/ <b>mine</b> /items
POST	/V1/carts/ <b>mine</b> /items
PUT	/V1/carts/ <b>mine</b> /items/:itemId
DELETE	/V1/carts/ <b>mine</b> /items/:itemId

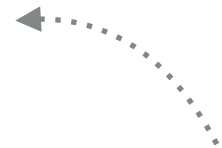


1. Username & Password

**2. OAuth 1.0a**

3. Session

**3rd party apps / integrations**




Dashboard / Magento Admin x

local.magento2.com/dev4/admin/admin/dashboard/index/key/7f09f278f1c344e5da500d20159ce61fa504db62b36ea62f84d66c1ad6bce661/

billcort

# System

System Messages:  1

Search, Notifications, User: wcurtis

**Reload Data**

able the chart, click [here](#).

Tax	Shipping	Quantity
\$0.00	\$0.00	0

Viewed Products | New Customers | Customers

ards.

- DASHBOARD
- SALES
- PRODUCTS
- CUSTOMERS
- MARKETING
- CONTENT
- REPORTS
- STORES
- SYSTEM
- FIND PARTNERS & EXTENSIONS

- Data Transfer
  - Import
  - Export
  - Import/Export Tax Rates
  - Import History
- Integrations
- Tools
  - Cache Management
  - Backups
  - Index Management
  - Web Setup Wizard

- Permissions
  - All Users
  - Locked Users
  - User Roles
- Other Settings
  - Notifications
  - Custom Variables
  - Manage Encryption Key



Integrations / Extensions / x

local.magento2.com/dev4/admin/admin/integration/index/key/c40712fcd90aa90890dde263ab2f90ddbf654e769e8379cce333a02b5674d3ea/

billcut

System Messages: 1

# Integrations

Search Reset Filter 0 records found 20 per page 1 of 1

Name	Status			

No Integrations Found

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DASHBOARD SALES PRODUCTS CUSTOMERS MARKETING CONTENT REPORTS STORES SYSTEM FIND PARTNERS & EXTENSIONS

**Add New Integration**





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local.magento2.com/dev4/admin/admin/integration/edit/id/1/key/0b81963a75a78e5b2c6648a5ca837079d11d63df861d789c2dab116e31607d87/

←

→

↻

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DASHBOARD

SALES

PRODUCTS

CUSTOMERS

MARKETING

CONTENT

REPORTS

STORES

SYSTEM

FIND PARTNERS & EXTENSIONS

System Messages: 1

Search

wcurtis ▾

← Back

Save

BASIC SETTINGS

Integration Info

API

General

Name \*

ERP Integration

Email

erp@example.com

Callback URL

https://myerp.com/magento/auth/callback

Enter URL where OAuth credentials can be sent when using OAuth for token exchange. We strongly recommend using https://.

Identity link URL

https://myerp.com/magento/auth/identity


URL to redirect user to link their 3rd party account with this Magento integration credentials.

Integration Details




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local.magento2.com/dev4/admin/admin/integration/new/key/f8967f65f383b40f1aa2386b3160942616190e4ff71fd85b8f6a3a5cb1a9cd9a/


System Messages:  1

## New Integration

   wcurtis ▾

← Back **Save** ▾

### BASIC SETTINGS

Integration Info 

**API**

### Available APIs

Resource Access **Custom** ▴

Resources

- Dashboard
- Sales
- Operations
  - Orders
    - Actions
      - Create
      - View
      - Send Order Email
      - Reorder
      - Edit
      - Cancel
      - Accept or Deny Payment
      - Capture
      - Invoice
      - Credit Memos
      - Hold
      - Unhold
      - Ship



Integrations / Extensions / x

local.magento2.com/dev4/admin/admin/integration/index/key/c40712fcd90aa90890dde263ab2f90ddbf654e769e8379cce333a02b5674d3ea/

billcut

System Messages: 1

# Integrations

[Add New Integration](#)

✓ The integration 'ERP Integration' has been saved.

Search [Reset Filter](#) 1 records found 20 per page 1 of 1

Name	Status			
ERP Integration	Inactive	Activate		

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Integrations / Extensions / x

local.magento2.com/dev4/admin/admin/integration/index/key/c40712fcd90aa90890dde263ab2f90ddbf654e769e8379cce333a02b5674d3ea/

billcurt

## ERP Integration

Done

### Integration Tokens for Extensions

Consumer Key	0clmrcyuao38l1unxbdaj2vutvffw6sa
Consumer Secret	ym8cmg6tnob3sy2e99su8gj2fbup7oa9
Access Token	pg4osrfhc7chr87uah7btelfvmca229
Access Token Secret	4ju4u4mbqgwosexipi0b80mxk3ga4ms2



1. Username & Password

2. OAuth 1.0a

**3. Session**

**In browser**



```
jQuery.get("/rest/V1/customers/me", function(customer) {  
    console.log(customer);  
});
```



# Extending the Magento API

etc/webapi.xml



# etc/webapi.xml

```
112 <!-- Customer Account -->
113 <route url="/V1/customers/:customerId" method="GET">
114     <service class="Magento\Customer\Api\CustomerRepositoryInterface" method="getById"/>
115     <resources>
116         <resource ref="Magento_Customer::customer"/>
117     </resources>
118 </route>
```





# etc/webapi.xml

```
112 <!-- Customer Account -->
113 <route url="/V1/customers/:customerId" method="GET">
114     <service class="Magento\Customer\Api\CustomerRepositoryInterface" method="getById"/>
115     <resources>
116         <resource ref="Magento_Customer::customer"/>
117     </resources>
118 </route>
```



# etc/webapi.xml

```
112 <!-- Customer Account -->
113 <route url="/V1/customers/{customerId}" method="GET">
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115     <resources>
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117     </resources>
118 </route>
```



# etc/webapi.xml

```
112 <!-- Customer Account -->
113 <route url="/V1/customers/:customerId" method="GET">
114     <service class="Magento\Customer\Api\CustomerRepositoryInterface" method="getById"/>
115     <resources>
116         <resource ref="Magento_Customer::customer"/>
117     </resources>
118 </route>
```

ref="<magento\_acl>"

ref="self"

ref="anonymous"



# Magento 2.0.4 Release - March 31 2016

42  app/code/Magento/Catalog/etc/webapi.xml 

View

		<div><div></div><div></div></div> @@ -30,13 +30,13 @@
30	30	<div>&lt;route url="/V1/products" method="GET"&gt;</div>
31	31	<div>&lt;service class="Magento\Catalog\Api\ProductRepositoryInterface" method="getList"/&gt;</div>
32	32	<div>&lt;resources&gt;</div>
33	-	<div>&lt;resource ref="anonymous" /&gt;</div>
	33	<div>&lt;resource ref="Magento_Catalog::products" /&gt;</div>
34	34	<div>&lt;/resources&gt;</div>
35	35	<div>&lt;/route&gt;</div>
36	36	<div>&lt;route url="/V1/products/:sku" method="GET"&gt;</div>
37	37	<div>&lt;service class="Magento\Catalog\Api\ProductRepositoryInterface" method="get"/&gt;</div>
38	38	<div>&lt;resources&gt;</div>
39	-	<div>&lt;resource ref="anonymous" /&gt;</div>
	39	<div>&lt;resource ref="Magento_Catalog::products" /&gt;</div>
40	40	<div>&lt;/resources&gt;</div>
41	41	<div>&lt;/route&gt;</div>
42	42	



Configuration / Settings / S x

local.magento2.com/dev4/admin/admin/system\_config/edit/section/webapi/key/ddfec4033ff7bf3a75274d451b0a612890aed0be3d4e92fe98...

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# Configuration

Store View: Default Config ?

Save Config

- GENERAL
- CATALOG
- CUSTOMERS
- SALES
- SERVICES
- Magento Web API
- OAuth
- ADVANCED

## SOAP Settings

Default Response Charset [STORE VIEW]

## Web API Security

Allow Anonymous Guest Access No [GLOBAL]

This feature applies only to CMS, Catalog and Store APIs. Please consult your developers for details on potential security risks.



# Development resources



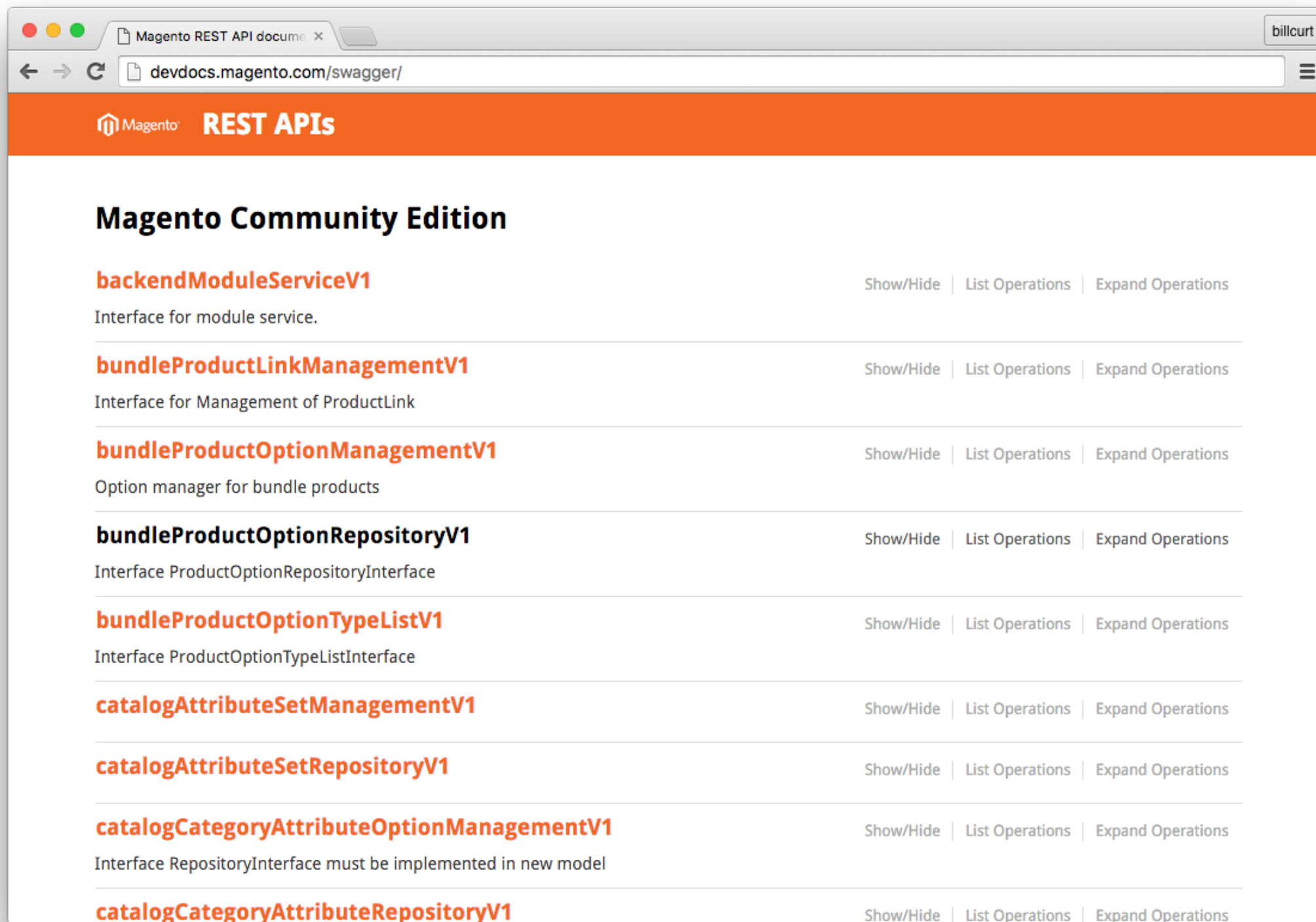


# http://<magento\_host>/rest/default/schema

```
{
  "swagger": "2.0",
  "info": {
    "version": "2.0",
    "title": "Magento Community"
  },
  "host": "local.magento2.com",
  "basePath": "/dev3/rest/default",
  "schemes": [
    "http"
  ],
  "tags": [
    {
      "name": "storeStoreRepositoryV1",
      "description": "Store repository interface"
    },
    {
      "name": "storeGroupRepositoryV1",
      "description": "Group repository interface"
    }
  ]
}
```







<http://devdocs.magento.com/swagger/>



Magento REST API docume x
billcurt

← → ↺
devdocs.magento.com/swagger/#/
≡

Interface for retrieval information about customer address attributes metadata.

**customerAddressRepositoryV1**
Show/Hide | List Operations | Expand Operations

Customer address CRUD interface.

**customerCustomerMetadataV1**
Show/Hide | List Operations | Expand Operations

Interface for retrieval information about customer attributes metadata.

**customerCustomerRepositoryV1**
Show/Hide | List Operations | Expand Operations

Customer CRUD interface.

DELETE /V1/customers/{customerId}

GET /V1/customers/{customerId}

PUT /V1/customers/{id}

GET /V1/customers/me

PUT /V1/customers/me

GET /V1/customers/search

**customerGroupManagementV1**
Show/Hide | List Operations | Expand Operations

Interface for managing customer groups.

**customerGroupRepositoryV1**
Show/Hide | List Operations | Expand Operations

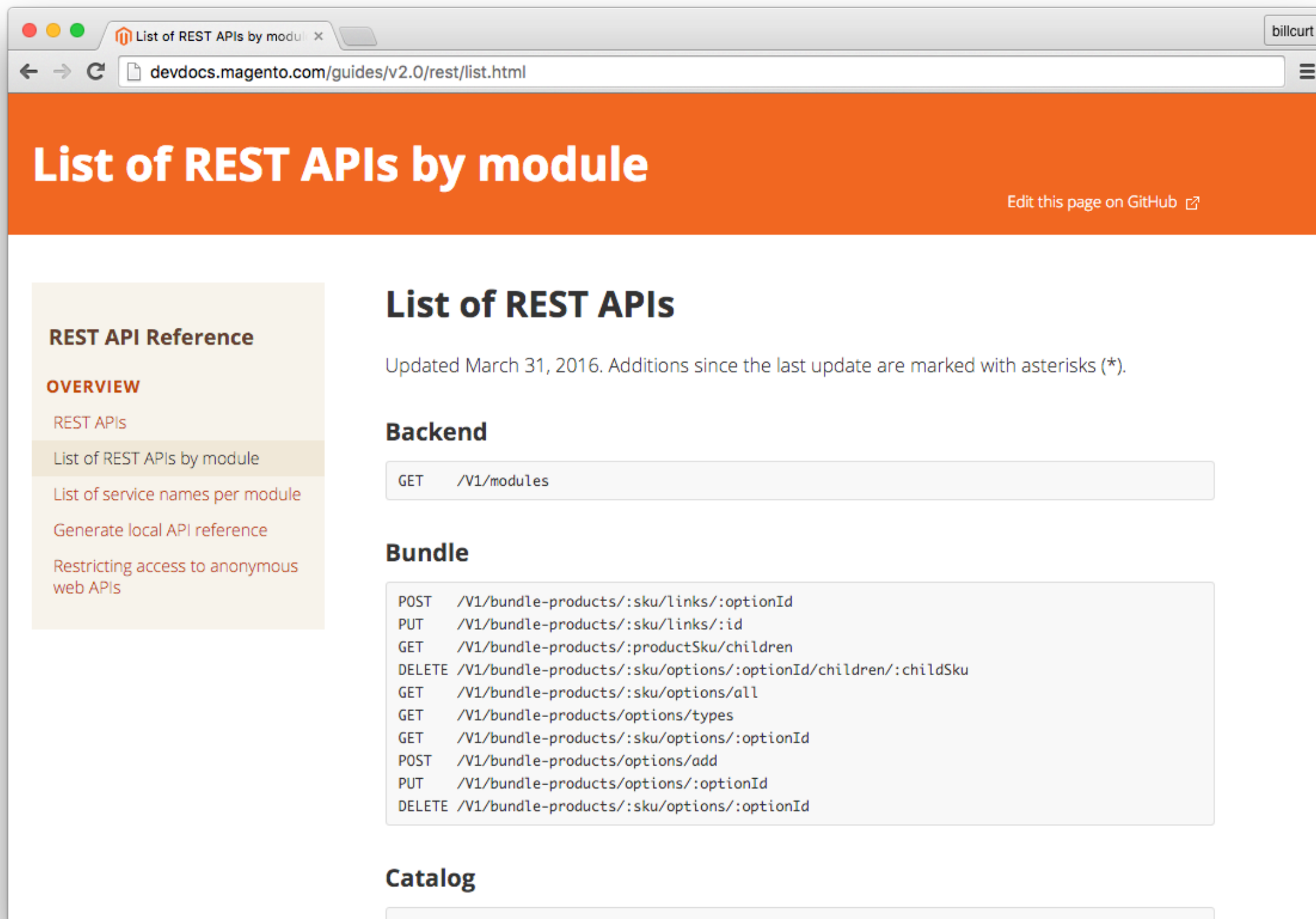
Customer group CRUD interface

**directoryCountryInformationAcquirerV1**
Show/Hide | List Operations | Expand Operations

Country information acquirer interface

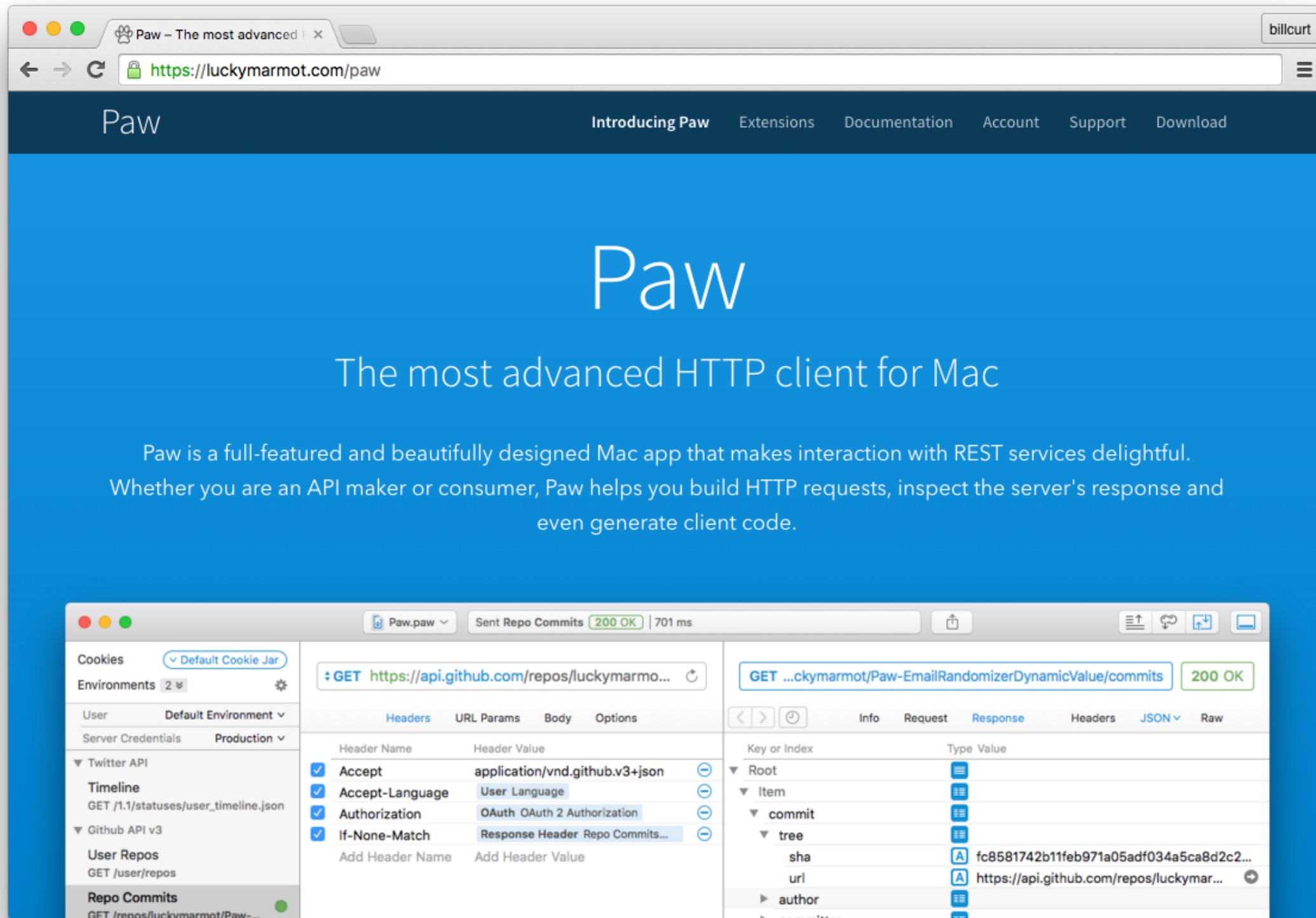






<http://devdocs.magento.com/guides/v2.0/rest/list.html>

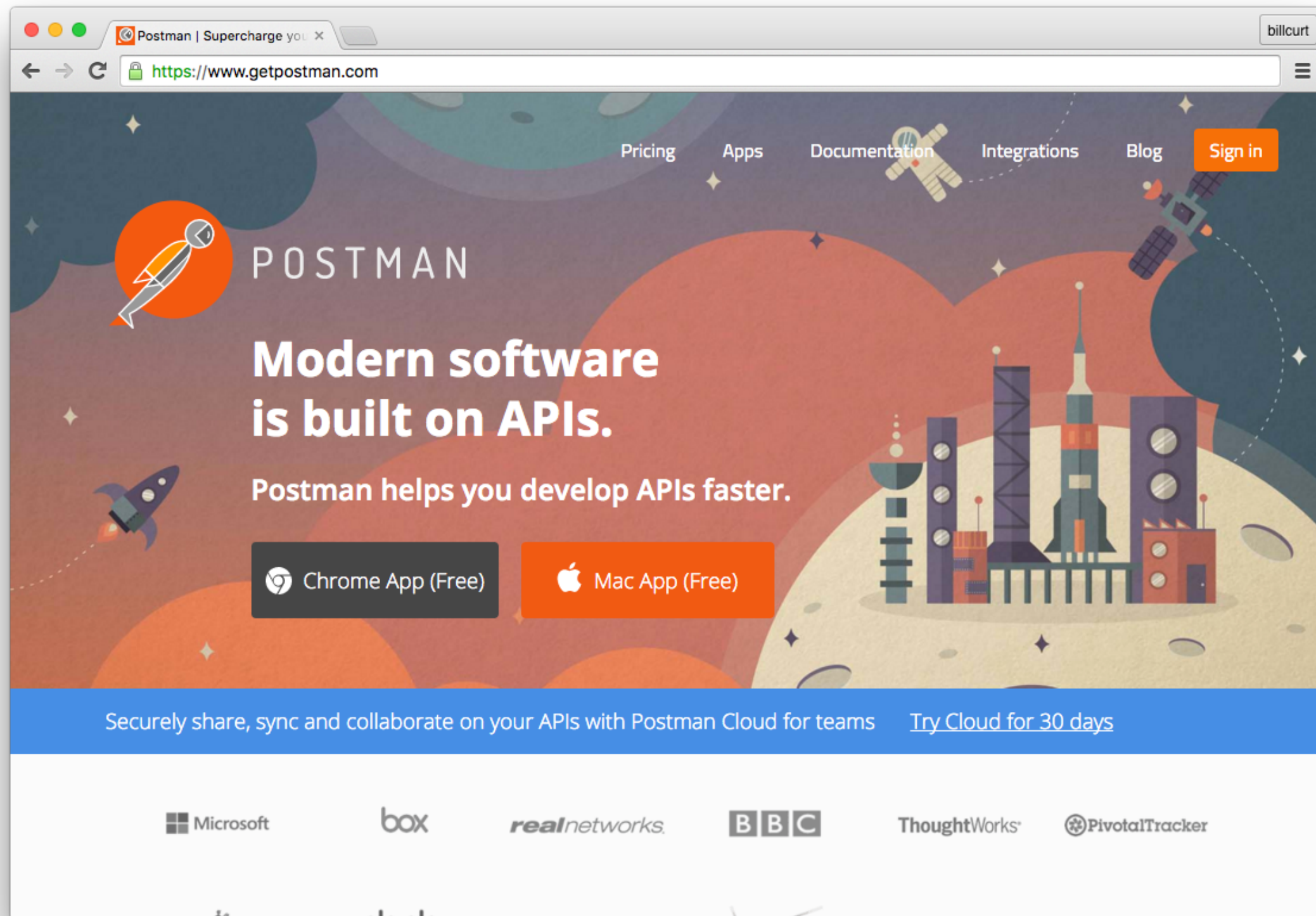




<https://luckymarmot.com/paw>







<https://www.getpostman.com/>





# Thank You!



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