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AUTO-ID LABS

→ HackZurich Retail Innovation API

Auto-ID Labs ETH Zürich & University of St. Gallen

October 10, 2014
Zurich, Switzerland

- Data can be retrieved through simple HTTP Requests

  - Product data

  - Category data

  - Brand data

  - Transaction data

- Data is returned in JSON format

- A GUI is used to generate new transaction data for testing

- Free access to a Scandit Premium Account

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#1 GET PRODUCT INFORMATION

Parameters	Description
EAN	Product Identifier
N	Including Nutrition Facts? (Yes=1 and No=0)

Example:
http://api.autoidlabs.ch/products/7610200243430?n=1

Code in curl:
--include \
--header "Accept: application/json" \
http://api.autoidlabs.ch/products/7610200243430?n=1

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```
200 (OK)
Content-Type: application/json

{
  "name": "M-Budget Vollmilch",
  "purchasable_online": true,
  "producing_country": "Produit suisse",
  "image": {
    "source": "PIM",
    "custom": "//migros-cache.fsi-viewer.com/fsicache/server?type=image&source=images%2Fmigros_api%2Fstaging%2Fproduct_204015800000.jpg
    "original": "//migros-cache.fsi-viewer.com/fsicache/server?type=image&source=images%2Fmigros_api%2Fstaging%2Fproduct_204015800000.j
    "small": "//migros-cache.fsi-viewer.com/fsicache/server?type=image&source=images%2Fmigros_api%2Fstaging%2Fproduct_204015800000.jpg&
    "medium": "//migros-cache.fsi-viewer.com/fsicache/server?type=image&source=images%2Fmigros_api%2Fstaging%2Fproduct_204015800000.jpg
    "large": "//migros-cache.fsi-viewer.com/fsicache/server?type=image&source=images%2Fmigros_api%2Fstaging%2Fproduct_204015800000.jpg&
  },
  "labels": [],
  "brand_id": "N26",
  "nutrition_facts": {
    "standard": {
      "nutrients": [
        {
          "code": "PIM_NUT_ENERGIE",
          "name": "Energiewert",
          "pictogram_name": "Energie",
          "category": "BIG9",
          "quantity": 65,
          "rda_percent_operator": "=",
          "quantity_unit": "kcal"
        },
        {
          "code": "PIM_NUT_GES_EIW",
          "name": "Eiweiss",
          "category": "BIG9",
          "quantity": 3,
          "rda_percent_operator": "=",
          "quantity_unit": "g"
```

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#2 GET PRODUCT LIKES

Parameters	Description
EAN	Product Identifier

Example:
http://api.autoidlabs.ch/likes/7610200243430

#3 GET PRODUCT RATING

Parameters	Description
EAN	Product Identifier

Example:
http://api.autoidlabs.ch/rating/7610200243430

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#4 GET PRODUCT AVAILABILITY

Parameters	Description
EAN	Product Identifier
Store_id	Store Location Identifier

Example:

http://api.autoidlabs.ch/availability/5000488105339?store=0150116

#5 GET PRODUCT ARTICLES

Parameters	Description
EAN	Product Identifier

Example:

http://api.autoidlabs.ch/prodarticles/7617400038903

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#6 GET PRODUCT DISCOUNTS

Parameters	Description
N/A	You get all discounted products in this week

Example:
http://api.autoidlabs.ch/discounts

#7 SEARCH PRODUCT RECOMMENDATION BY KEYWORD

Parameters	Description
Text	Key word to search for

Example:
http://api.autoidlabs.ch/search?text=milch

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#8 GET CATEGORY INFORMATION BY ID

Parameters	Description
Category_id	Category Identifier

Example:

http://api.autoidlabs.ch/categories/22526

#9 GET ALL PRODUCT CATEGORIES

Parameters	Description
N/A	Get all product category information

Example:

http://api.autoidlabs.ch/categories

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#10 GET BRAND INFORMATION

Parameters	Description
Search	Brand name

Example:
http://api.autoidlabs.ch/brands?search=milette

#11 GET ALL PRODUCT BELONG TO A BRAND

Parameters	Description
N/A	Get all product category information

Example:
http://api.autoidlabs.ch/brandproducts/117

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#12 GET POS TRANSACTION DATA

Parameters	Description
Customer_id	Get all the transactions belong to a customer

Example:
http://api.autoidlabs.ch/pos/115883

#13 GET ALL CUSTOMER IDs

Parameters	Description
N/A	Get all the available customerIDs

Example:
http://api.autoidlabs.ch/customerids

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Access Point:

http://api.autoidlabs.ch/posform

Customer id should be valid – you can get all customer ids in Call #13

PoS Data

Customer

[Customer Id]

Products

[Product EAN]	[Price per item]	[Quantity]
[Product EAN]	[Price per item]	[Quantity]
[Product EAN]	[Price per item]	[Quantity]
[Product EAN]	[Price per item]	[Quantity]
[Product EAN]	[Price per item]	[Quantity]
[Product EAN]	[Price per item]	[Quantity]
[Product EAN]	[Price per item]	[Quantity]
[Product EAN]	[Price per item]	[Quantity]
[Product EAN]	[Price per item]	[Quantity]
[Product EAN]	[Price per item]	[Quantity]

[Submit]

Delete PoS Data

[Transaction Id]

[Delete]

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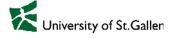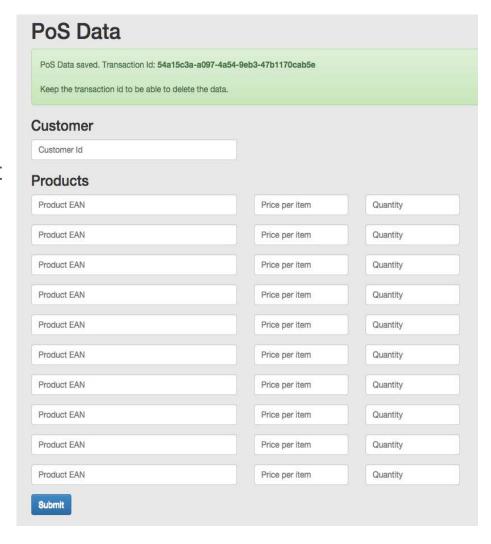
Access Point:

http://api.autoidlabs.ch/posform

Customer id should be valid – you can get all customer ids in Call #13

Delete test PoS data with transaction IDs – Once a new transaction is generated, the GUI shows the ID.

Keep the transaction ID to delete your test data.

PoS Data

PoS Data saved. Transaction Id: **54a15c3a-a097-4a54-9eb3-47b1170cab5e**

Keep the transaction id to be able to delete the data.

Customer

| Customer Id |

Products

Product EAN	Price per item	Quantity
Product EAN	Price per item	Quantity
Product EAN	Price per item	Quantity
Product EAN	Price per item	Quantity
Product EAN	Price per item	Quantity
Product EAN	Price per item	Quantity
Product EAN	Price per item	Quantity
Product EAN	Price per item	Quantity
Product EAN	Price per item	Quantity
Product EAN	Price per item	Quantity

Submit

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- Detailed explaination and testing code is available here: http://docs.hackzurich2014.apiary.io/

- Free access to Scandit Premium Account:

  - User name: hackzurich

  - Password: zurich2014

  - SDK for different platforms: http://www.scandit.com/developers/

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→ Thanks!

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