Roadmap Update

November, 2018

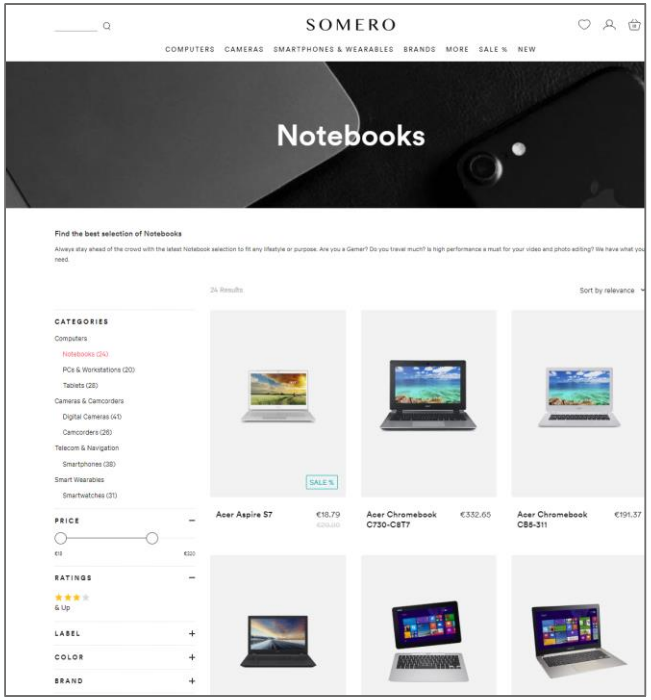
Disclaimer

The roadmap is presented for INFORMATIONAL PURPOSES ONLY, and not as a binding commitment. Spryker reserves the right to change timing and scope of released functionality based on input from our customers and changing market trends.

B2C & B2B
Demo Shops

B2C and B2B Demo Shops Updates – Q4 2018

Release enhanced UI for B2C Demo Shop



Find the best selection of Notebooks

Always stay ahead of the crowd with the latest Notebook selection to fit any lifestyle or purpose. Are you a Gamer? Do you travel much? Is high performance a must for your video and photo editing? We have what you need.

24 Results

Sort by relevance

CATEGORIES
Computers
Notebooks (24)
PCs & Workstations (20)
Tablets (28)
Cameras & Camcorders
Digital Cameras (41)
Camcorders (26)
Telecom & Navigation
Smartphones (38)
Smart Wearables
Smartwatches (31)

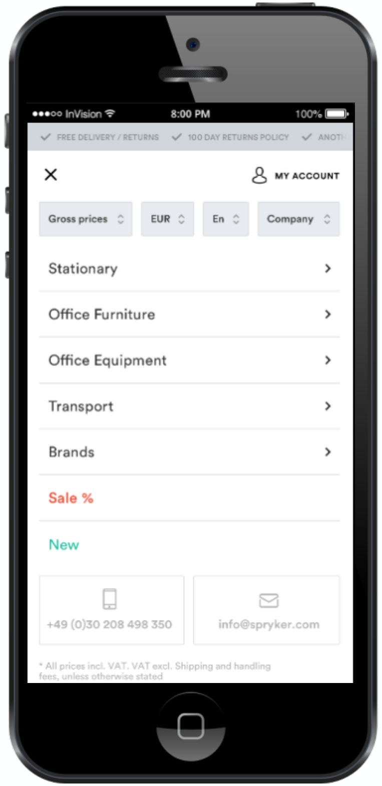
PRICE –
€18 €320

RATINGS –
★★★☆ & Up

LABEL +
COLOR +
BRAND +

Acer Aspire S7	€18.79
Acer Chromebook C730-C8T7	€332.65
Acer Chromebook CB5-311	€191.37

Add responsive UI support for B2B Demo Shop



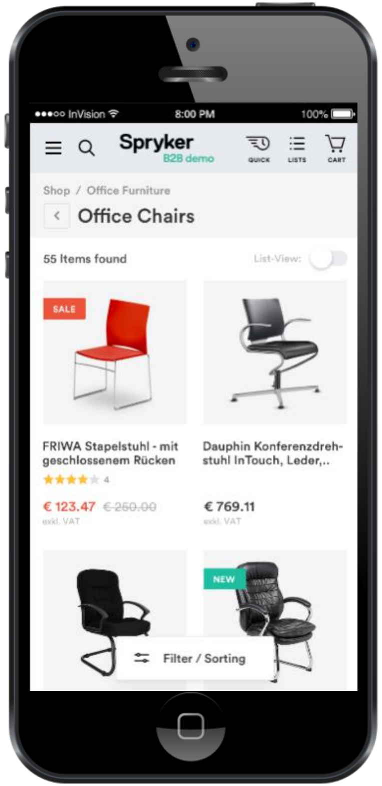
Gross prices | EUR | En | Company

- Stationary ›
- Office Furniture ›
- Office Equipment ›
- Transport ›
- Brands ›
- Sale %
- New

+49 (0)30 208 498 350

info@spryker.com

* All prices incl. VAT. VAT excl. Shipping and handling fees, unless otherwise stated



Shop / Office Furniture

‹ Office Chairs

55 Items found

List-View:

FRIWA Stapelstuhl - mit geschlossenem Rücken
★★★★☆ 4
€ 123.47 ~~€ 250.00~~
exkl. VAT

Dauphin Konferenzdreh-stuhl InTouch, Leder,..
€ 769.11
exkl. VAT

Filter / Sorting

Short term roadmap
Q1, 2019

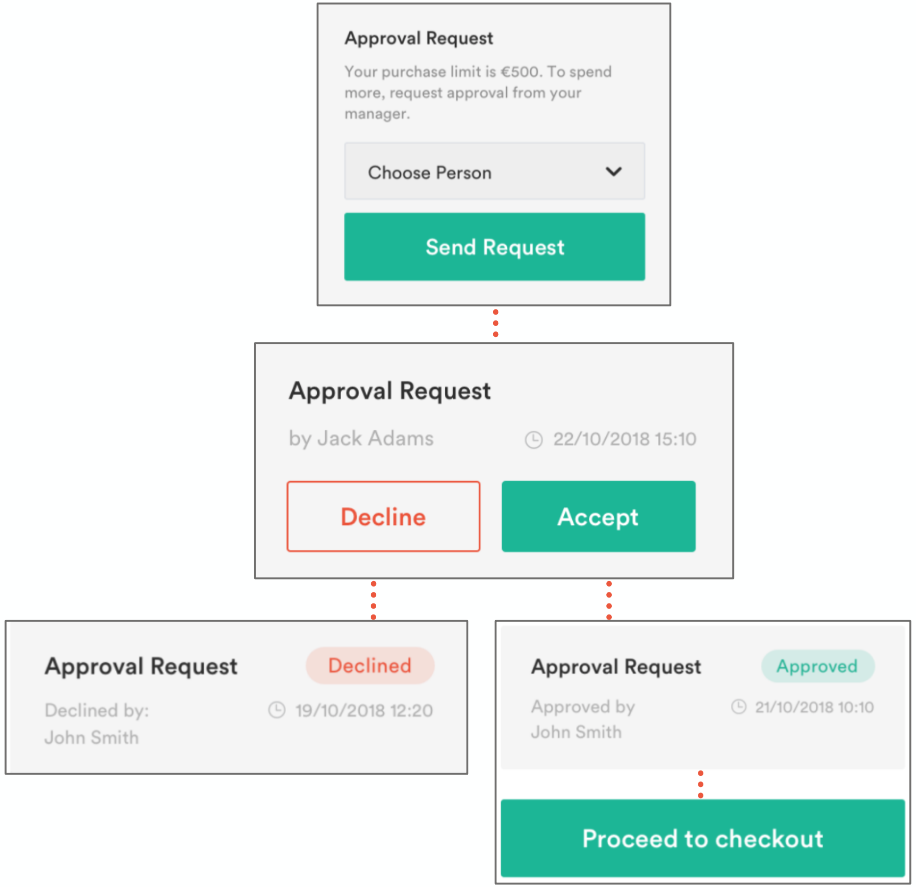
B2B Short term Roadmap

Quick add to Cart - improvements

1. Search widget for concrete products

2. Upload CSV list of concrete products

Approval process



Approval Request

Your purchase limit is €500. To spend more, request approval from your manager.

Approval Request

by Jack Adams 22/10/2018 15:10

Approval Request Declined

Declined by: John Smith 19/10/2018 12:20

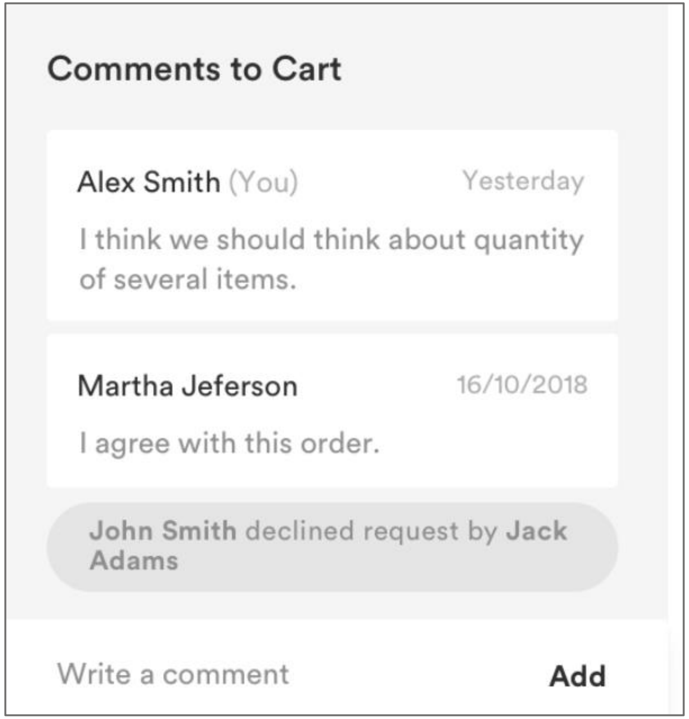
Approval Request Approved

Approved by John Smith 21/10/2018 10:10

Management approval of employers purchases

- B2B Buyer role has a configurable purchase limit.
- Shopping cart above the limit needs to be sent to manager for approval
- After approval is received, customer can proceed to checkout

Cart Comments Enhancements



Comments to Cart

Alex Smith (You) Yesterday

I think we should think about quantity of several items.

Martha Jeferson 16/10/2018

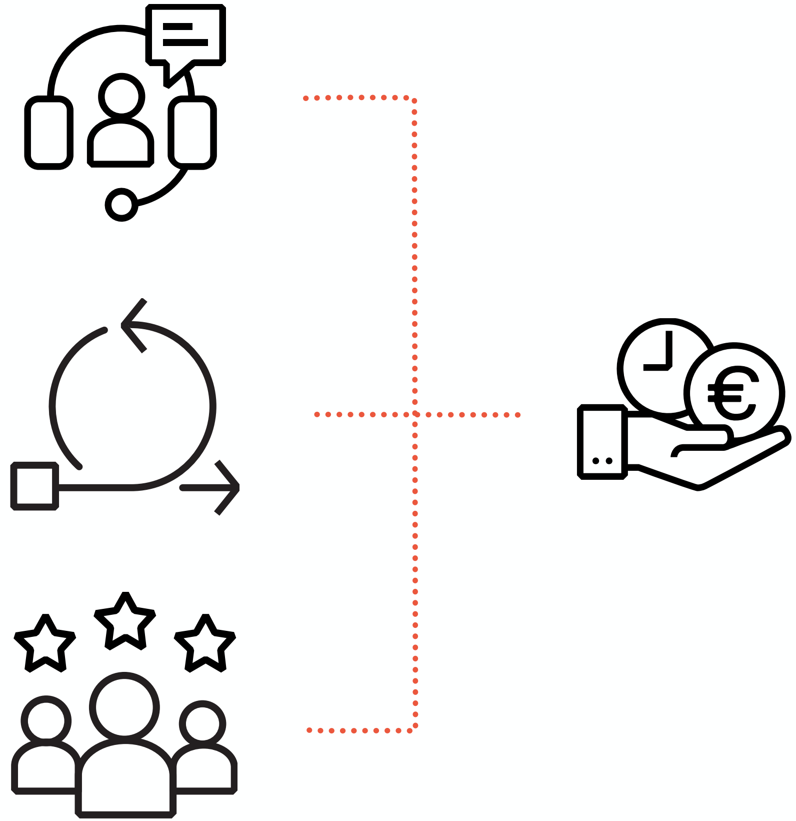
I agree with this order.

John Smith declined request by **Jack Adams**

Write a comment **Add**

- Supporting multiple comments on cart and shopping list.
- Make Comments a generic module that can be reused in other parts of the system.

Quotation or Request for Quote

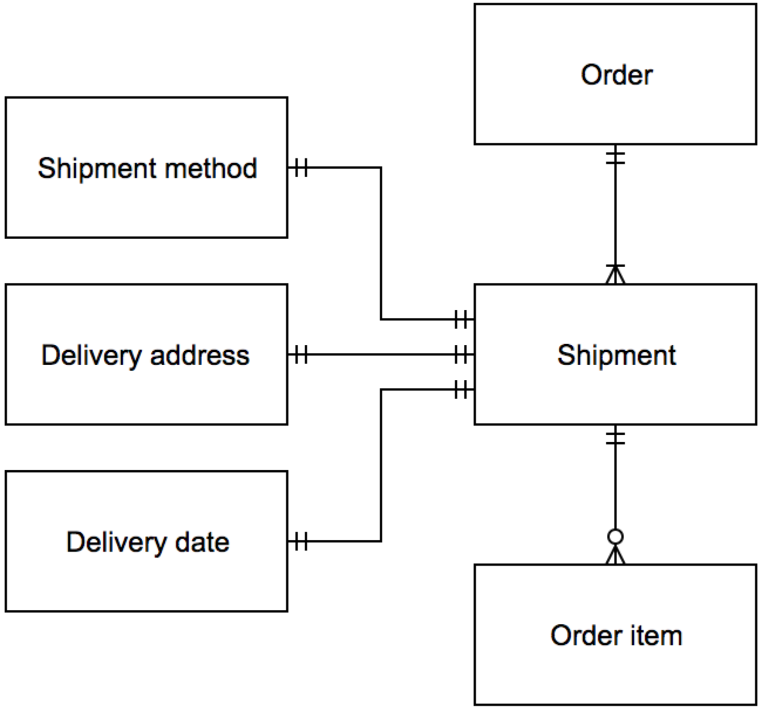


RFQ allows customers to specify products they want to buy and submit an easy “request for a quote” to the Shop Owner. This gives an opportunity to negotiate special rates based on the quantity/amount of the order and leads to higher customer satisfaction and sales.

- Reduce negotiation time between customer and sales agent.
- Increase flexibility of the request process by supporting online and offline interactions.
- Facilitate collaboration between customer and sales rep.

Core Commerce

Split Shipments

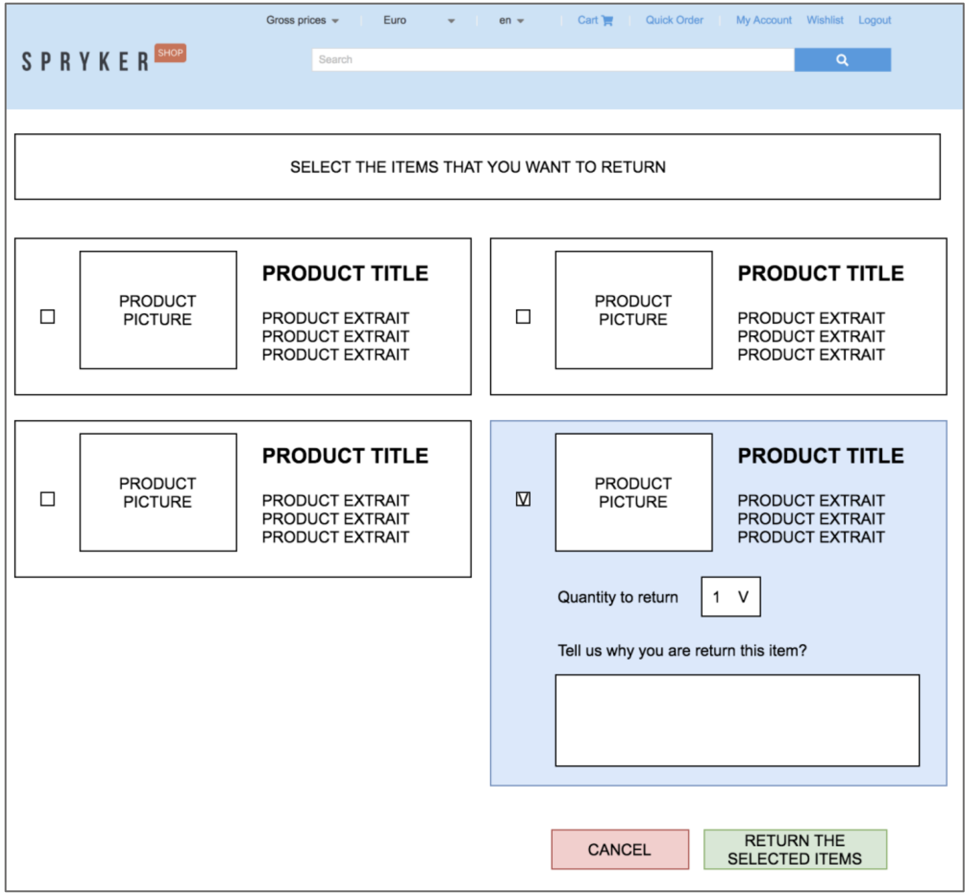


Allow order to be sent to multiple addresses

- Introduce the Shipment object to group order items together

- A shipment represents identical properties for order items
  - Shipment method
  - Delivery address
  - Delivery date

Return Management



SELECT THE ITEMS THAT YOU WANT TO RETURN

□ PRODUCT PICTURE **PRODUCT TITLE** PRODUCT EXTRAIT PRODUCT EXTRAIT PRODUCT EXTRAIT

□ PRODUCT PICTURE **PRODUCT TITLE** PRODUCT EXTRAIT PRODUCT EXTRAIT PRODUCT EXTRAIT

□ PRODUCT PICTURE **PRODUCT TITLE** PRODUCT EXTRAIT PRODUCT EXTRAIT PRODUCT EXTRAIT

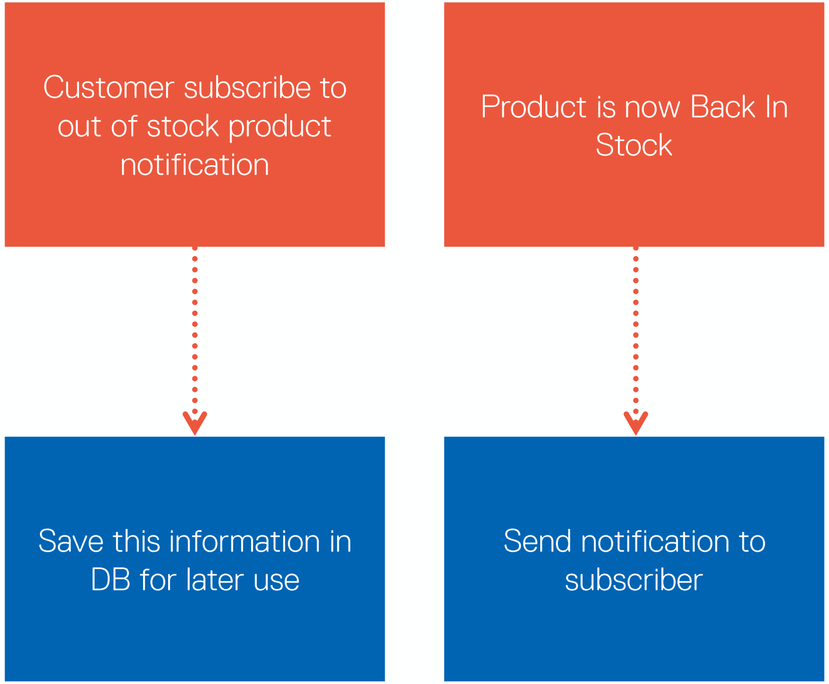
☑ PRODUCT PICTURE **PRODUCT TITLE** PRODUCT EXTRAIT PRODUCT EXTRAIT PRODUCT EXTRAIT

Quantity to return 1 V

Tell us why you are return this item?

- Customers will be allowed to return products from their past purchases
- Shop can request specific information regarding why the return occurs
- Shop will be able to offer either Exchange or Refund

Notifications Framework



Customer subscribe to out of stock product notification

Save this information in DB for later use

Product is now Back In Stock

Send notification to subscriber

- Generic framework to request and receive notifications about specific business events
- First implementation will be for “Back In Stock” notifications for products

Commerce Events Logging Framework

```
{
   “type”: “cart”,
   “action”: “addProduct”,
   “entities”:[
      {
         “type”: “product”,
         “id”: “azerty-123”
      }, {
         “type”: “cart”,
         “id”: “cart-123-546”
      }
   ],
   “when”: “2018-12-20T12:34:00+02:00”,
   “whoDidIt”: {
      “type”: “user”,
      “id”: “666”
   },
   “description”: {
      “en_US”: “Product ${product} was added into the cart by
${whoDidIt}”,
      “fr_FR”: “Le produit ${product} a été ajouté au panier par
${whoDidIt}”
   }
}
```

Framework to record business events like cart modification for audit purpose

- Allow users to log business events/behaviours
- For each event:
  - Who performed the action
  - Type of the action
  - Type of the object
  - When action happened
  - For which customer

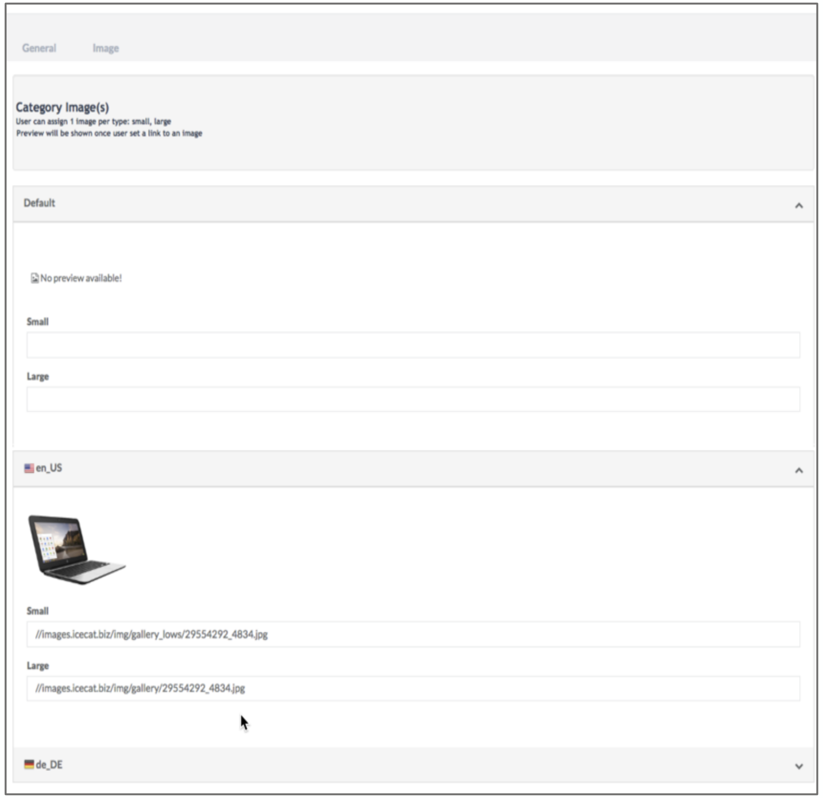
- First implementation will be for all cart events and all sharing/approval scenarios including agent assist

- Will also be used by the Personalisation Framework

Content Management System (CMS)

Subcategories Page Template

- New Template for Subcategories Page which shows thumbnails of Subcategories
- Ability to assign images to a Category



Category Image(s)

User can assign 1 image per type: small, large
Preview will be shown once user set a link to an image

Default

No preview available!

Small:

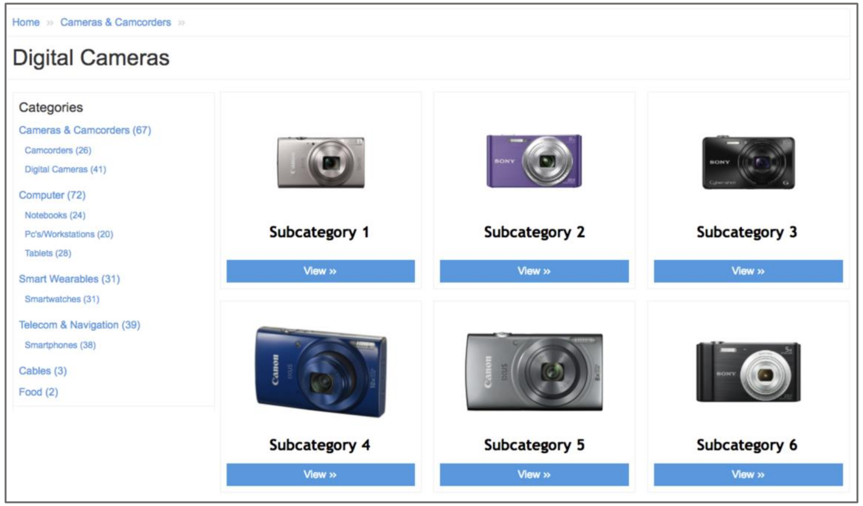
Large:

en_US

Small: //images.icecat.biz/img/gallery_lows/29554292_4834.jpg

Large: //images.icecat.biz/img/gallery/29554292_4834.jpg

de_DE

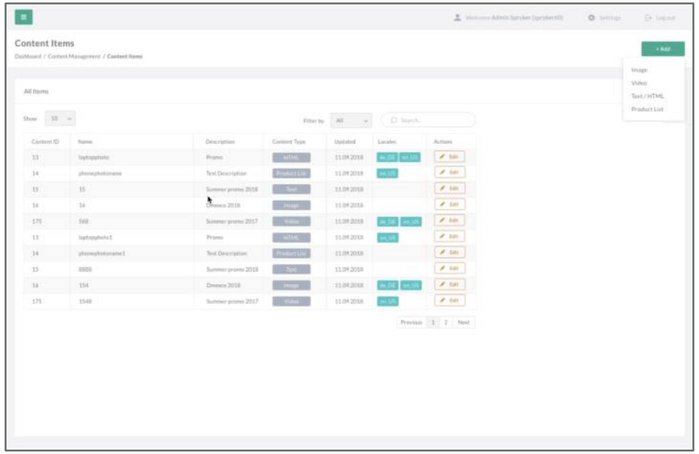


Digital Cameras

Categories

- Cameras & Camcorders (67)
  - Camcorders (26)
  - Digital Cameras (41)
- Computer (72)
  - Notebooks (24)
  - Pc's/Workstations (20)
  - Tablets (28)
- Smart Wearables (31)
  - Smartwatches (31)
- Telecom & Navigation (39)
  - Smartphones (38)
- Cables (3)
- Food (2)

Content Items



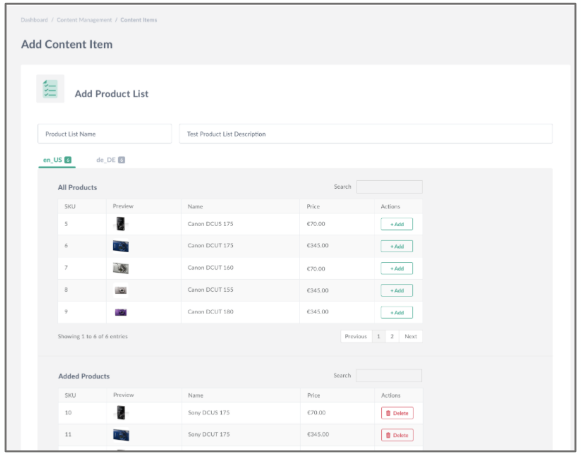
Content Items

Dashboard / Content Management / Content Items

All Items

Content ID	Name	Description	Content Type	Updated	Locales	Actions
13	laptopphoto	Promo	HTML	11.09.2018	de_DE en_US	Edit
14	phonephotoname	Test Description	Product List	11.09.2018	en_US	Edit
15	15	Summer promo 2018	Text	11.09.2018		Edit
16	16	Dmexco 2018	Image	11.09.2018		Edit
175	568	Summer promo 2017	Video	11.09.2018	de_DE en_US	Edit
13	laptopphoto1	Promo	HTML	11.09.2018	en_US	Edit
14	phonephotoname1	Test Description	Product List	11.09.2018		Edit
15	8888	Summer promo 2018	Text	11.09.2018		Edit
16	154	Dmexco 2018	Image	11.09.2018	de_DE en_US	Edit
175	1548	Summer promo 2017	Video	11.09.2018	en_US	Edit

- New abstraction: Content Item
  - Allows to separate content from placement and way it is presented
- New section in Content Management
  - Allows the user to see existing content items, useful information about them and create/edit them
  - User friendly UI
  - Facilitate content reuse
- Content available in Twig templates or through API



Dashboard / Content Management / Content Items

Add Content Item

Add Product List

Product List Name

Test Product List Description

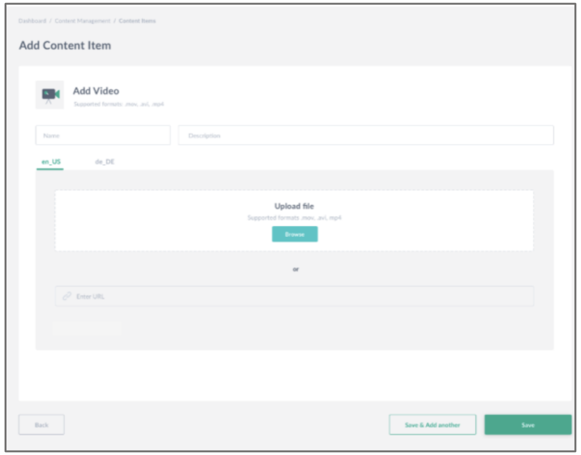
All Products

SKU	Preview	Name	Price	Actions
5		Canon DCUS 175	€70.00	+ Add
6		Canon DCUT 175	€345.00	+ Add
7		Canon DCUT 160	€70.00	+ Add
8		Canon DCUT 155	€345.00	+ Add
9		Canon DCUT 180	€345.00	+ Add

Showing 1 to 6 of 6 entries

Added Products

SKU	Preview	Name	Price	Actions
10		Sony DCUS 175	€70.00	Delete
11		Sony DCUT 175	€345.00	Delete



Dashboard / Content Management / Content Items

Add Content Item

Add Video

Supported formats: .mov, .avi, .mp4

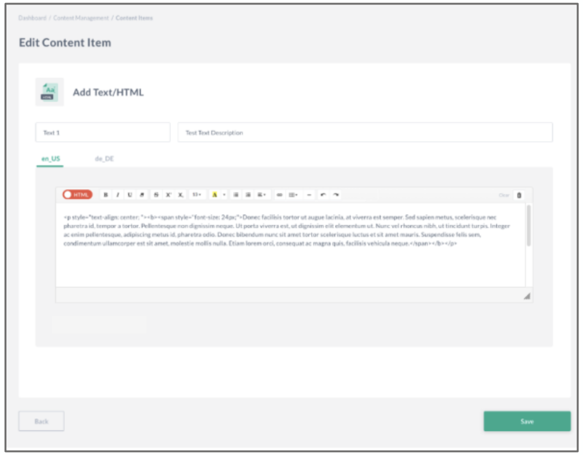
Name

Description

Upload file

Supported formats .mov, .avi, .mp4

Enter URL



Dashboard / Content Management / Content Items

Edit Content Item

Add Text/HTML

Text 1

Test Text Description

```
<p style="text-align: center; "><b><span style="font-size: 24px;">Donec facilisis tortor ut augue lacinia, at viverra est semper. Sed sapien metus, scelerisque nec pharetra id, tempor a tortor. Pellentesque non dignissim neque. Ut porta viverra est, ut dignissim elit elementum ut. Nunc vel rhoncus nibh, ut tincidunt turpis. Integer ac enim pellentesque, adipiscing metus id, pharetra odio. Donec bibendum nunc sit amet tortor scelerisque luctus et sit amet mauris. Suspendisse felis sem, condimentum ullamcorper est sit amet, molestie mollis nulla. Etiam lorem orci, consequat ac magna quis, facilisis vehicula neque.</span></b></p>
```

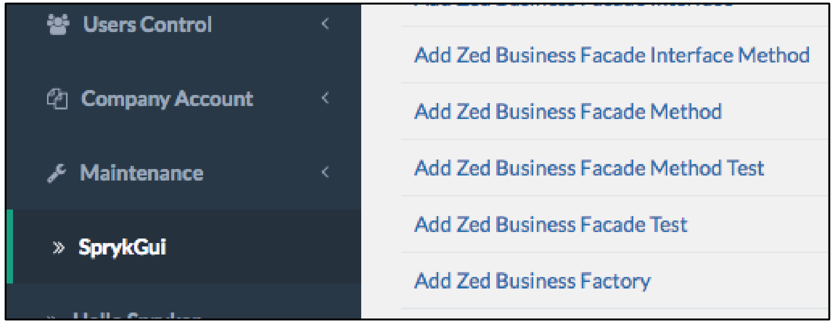
Development Tools

SDK: new product

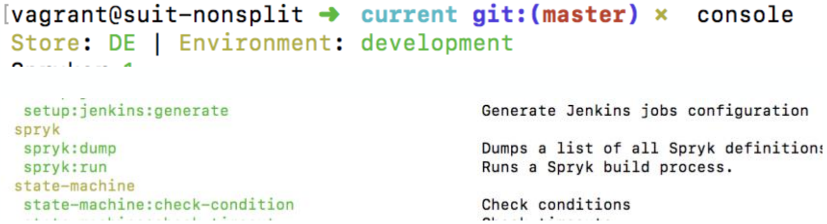
Set of tools to improve developers’ productivity :

- code quality verification
- code generation
- debugging
- release management

Spryk: code generation



- Add Zed Business Facade Interface Method
- Add Zed Business Facade Method
- Add Zed Business Facade Method Test
- Add Zed Business Facade Test
- Add Zed Business Factory

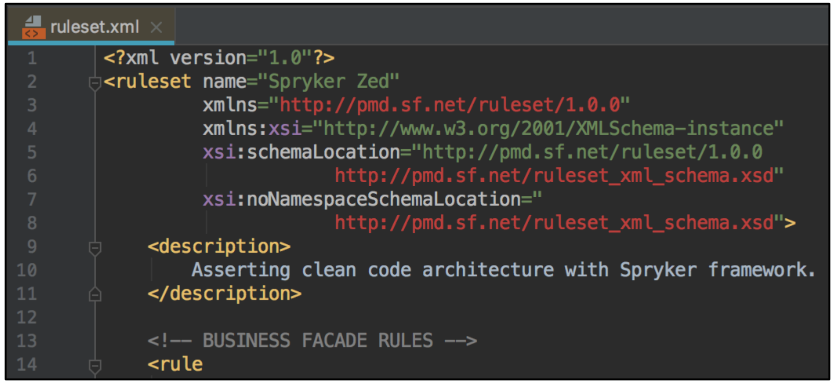


```
[vagrant@suit-nonsplit ➜ current git:(master) ✗  console
 Store: DE | Environment: development

  setup:jenkins:generate                           Generate Jenkins jobs configuration
 spryk
  spryk:dump                                       Dumps a list of all Spryk definition
  spryk:run                                        Runs a Spryk build process.
 state-machine
  state-machine:check-condition                    Check conditions
```

- Spryker OS is flexible and powerful but requires some level of boilerplate code
- Code generation aims to decrease these efforts
- Spryk is the main code generation tool
- Easy to use and integrate:
  - CLI - main interface,
  - GUI, IDE, and CI - pluggable via CLI
- Supports complex scenarios and use-cases
- Allows fast and simple extension with new scenarios

Sniffers: new rules and architectural checks



```xml
<?xml version="1.0"?>
<ruleset name="Spryker Zed"
         xmlns="http://pmd.sf.net/ruleset/1.0.0"
         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
         xsi:schemaLocation="http://pmd.sf.net/ruleset/1.0.0
                 http://pmd.sf.net/ruleset_xml_schema.xsd"
         xsi:noNamespaceSchemaLocation="
                 http://pmd.sf.net/ruleset_xml_schema.xsd">
    <description>
        Asserting clean code architecture with Spryker framework.
    </description>

    <!-- BUSINESS FACADE RULES -->
    <rule
```

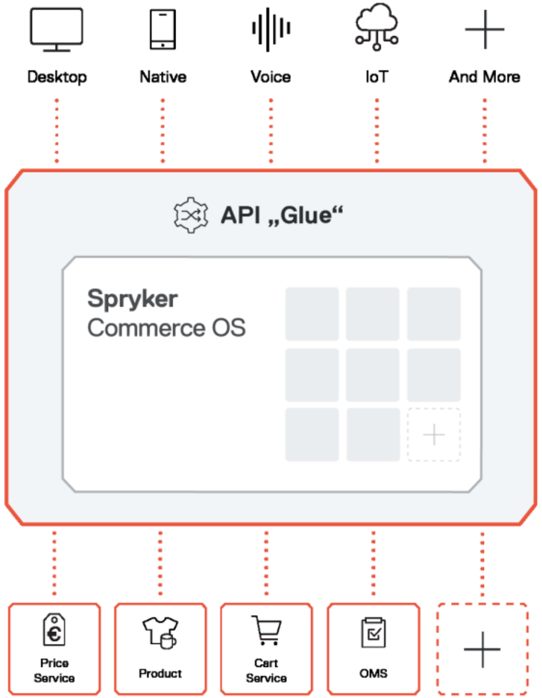
```
console code:sniff:style [-m ModuleName] [optional-sub-path] -v
```

```
console code:sniff:architecture [-m ModuleName] [optional-sub-path] -v
```

- Code checks: syntax, complexity, standards
- Code sniffer:
  - new syntax and styles rules
- Architecture sniffer:
  - new approved rules
  - a possibility to define individual levels per module
- PHPStan:
  - config file extensions and official support by PHPStan

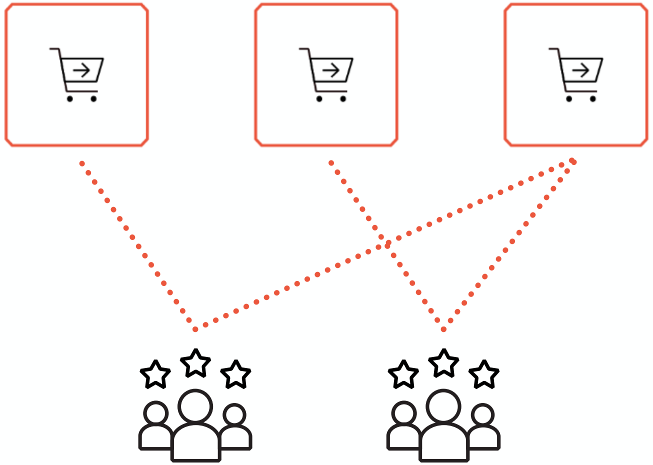
API

B2C Shopping API



- Set of APIs to build mobile or Javascript shopping applications
- Supported functionality includes:
  - Account authentication and management
  - Catalog browsing
  - Product prices
  - Cart
  - Checkout
  - Discounts

B2B Shopping API



API Extensions to support development of B2B Shopping applications

- Multiple carts that can be shared between different users
- Shopping lists
- Business units specific prices and product restrictions

CMS API

CMS

Makes Content created in Spryker CMS available for use in mobile or single page Javascript applications

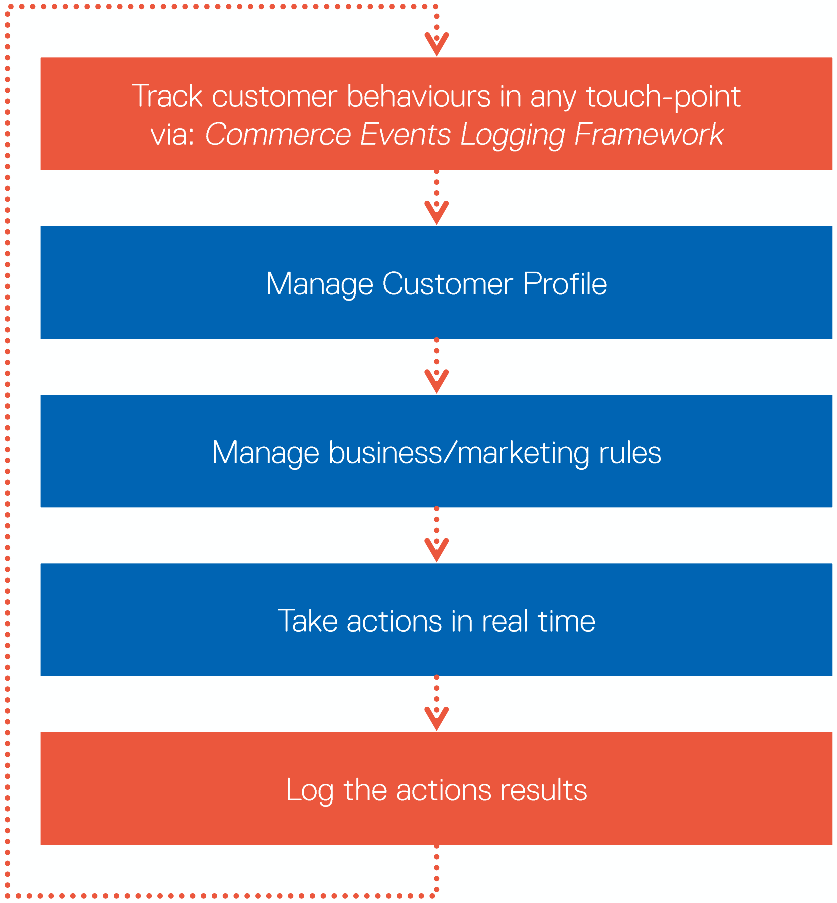
Long term roadmap Q2-Q3, 2019

B2B

- **Punch-out Catalog**
  A punchout catalog allows the user to find items in shop catalog from inside ERP or a procurement system and return them to their platform for workflow and additional steps

- **Business Unit Spending Budget**
  This feature will allow a manager to assign and control purchase budgets in her organization

Personalisation Framework



Track customer behaviours in any touch-point via: *Commerce Events Logging Framework*

Manage Customer Profile

Manage business/marketing rules

Take actions in real time

Log the actions results

- Ability to tailor each customer experience across all touch-points both **online** and **offline.**

- Allow shops to build their own scenarios to fulfill their goals

- Allow 3rd party services to be plugged in at different stages
  - AI to create Customer Profile
  - AI to decide which actions is the best for the user
  - Reporting tools to visualize performance

Marketplace

Spryker continues to enhance its Marketplace solution by adding ability for merchants to manage their products and fulfill orders

Development Tools

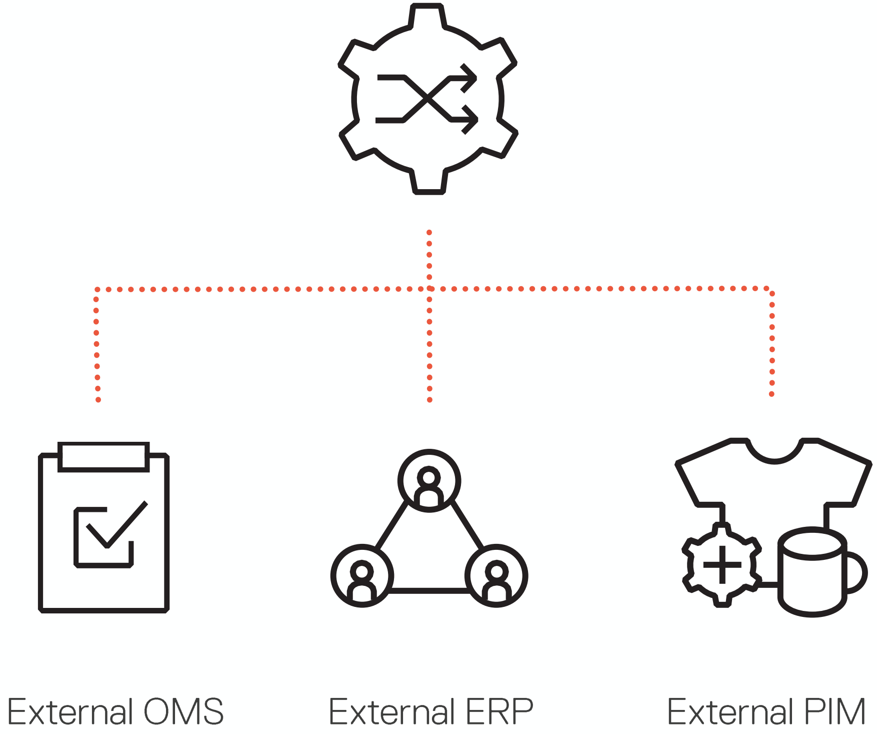
- Code generation improvements
- Code quality validation more rules
- Debug tools for production environments

Configurable Products & Bundles

- Configurable product feature will add the ability to define and sell products that buyer can customize before the purchase

- Configurable bundles will allow customers to use guided navigation to select bundle configurations that fit their needs

Backoffice APIs



External OMS

External ERP

External PIM

Backoffice API allows connection of 3rd party applications that can be used to administrate Ecommerce data

It will support management of:

- Products
- Stock
- Prices
- Orders
- Customers
- Content

And much more …