How to create 15 complex e-commerce projects in 8 months and save your mental health

Chapter 1. Sites development

Who I am

My name is Dmitry, I'm a fullstack developer

- With MODX since 2013 (Evo/Revo)
- I have created over 100 websites with MODX in last 10 years
- I have experience with MODX, Wordpress, Joomla, Bitrix, Pure PHP, JS, jQuery, Vue & React
- I was a team-leader in the biggest Russian IT corporation "LANIT" with my own team in "diHouse" — one of the biggest distributors in Russia as a subcompany of "Lanit"
- Now I'm a React developer in "Orion Inc."

Disclaimer

- This is quite a simple story, and it might be useless for real prodevelopers. But as I know a lot of developers still avoid some rules and principles and today I'm gonna show you how you can manage your development process to make it simpler and faster.
- This story isn't about PHP at all. This story is between managing, business and technology.

What it is about

- diHouse is a distribution company with a lot of partners around the world. Our biggest clients were such companies as Apple (we were the main Apple distributor in Russia before the war), Nokia, Nvidia, Ecovacs Robotics, XIAOMI, SONY, and a lot more.
- Several years ago our company decided to present itself on retail market besides the distribution
- Our first clients in that direction were Nokia, Nvidia, Ecovacs Robotics and some Russian companies, like Z-Store (personal brand of the popular Russian rapper BASTA)

What we had to develop

- Product catalog, synced with company ERP to check stocks and prices (inner API)
- Public API for our customers to get sale statistics
- A powerful basket with promo-codes and other discount activities
- Different types of shops public, only basket, only for company employees
- Loyalty program
- CRM integration, different delivery systems, card payment

And we did it

- I can't show these projects, because they were closed when the war began
- But I have some pictures, taken from WebArchive
- You also can check it by following this link
- https://web.archive.org/web/20220402041747/https://mobileshop.n okia.ru/
- And it was made with MODX









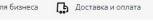








Гарантия на































The winter is coming

- In 2022, from February till April, all our retail customers left
- Our company made a new contracts with a lot of Chinese brands in 2021 and wanted to create new sites on our platform
- Our CTO decided to switch from MODX to Bitrix for these new projects (because his last job was about "1C" the developer of Bitrix)
- But our retail department was so in love in our MODX, and I decided to keep the idea and move it into Bitrix

A new beginning

- We should create 15 new e-commerce projects from February to December 2022.
- All previous functions should be saved
- A new API should have created, because the old one had some performance issues
- And all of it with only 2 developers.
- Great!

The main conditions

- We should have launched at least 1 shop per month, 2 is optimal
- This project should be easy to develop and maintain by new developers or outsourcing
- Easy from-site-to-site switching process. A developer should know everything about this site even it his first time on this particular site. This is how we can develop it fast
- Our timings: 1 week frontend development, 1-2 weeks CMS integration, 1 day launch
- We should keep our project as much simple as we can. Only KISS, only hardcore.

What we did and how we did it

- We have delegated frontend development process to outsourcing company with few rules:
 - Just HTML + JS. No jQuery, no Vue, no React. A lot of developers still can't use react-like frameworks and we don't have time to teach them. Also, Vue and React requires a specific API to work, but MODX and Bitrix don't have this specific functions only old-fashion way. Also, I don't want to spend my time to configure SSR, because we have to have a good SEO, but it's too hard with React or Vue.
 - Simple frontend. Minimum animations, circles, 3D, canvas, etc.
 - Every site should have the same HTML classes, the same structure (as much as possible), and the same file structure
 - BEM methodology
 - Gulp as a bundler. Webpack is too complicated and it's hard to support.
 - Regular code-review from our side
 - GIT (yeah, it's still a big problem for a lot of companies)

Backend rules

- Files elements only. Fenom for MODX, TWIG for Bitrix.
- GIT (we have our own Gitlab server). I will show you our CI/CD in next slides
- The same file structure from site to site. Easy to support, easy to learn, easy to develop – you don't have to think how you should call every new chunk, snippet or plugin.
- We should try to use only simple packages and modules from marketplaces. PDOTools for MODX, D7 for Bitrix. MiniShop2 for MODX, Bitrix has his own integrated webshop module already.

After we did a first project with these rules, all we had left to do was:

- Create new context (and named folder inside core/elements/)
- Copy new frontend and put Fenom/TWIG placeholders and snippets
- Some little different improvements from site to site (different menu, different filters, etc)
- Fill the site with some content
- Run

Yeah, that's it. I'm not kidding.

Just imagine that

• It's hard to believe, but when we have optimized our approach, we launched our last 5 sites just spending for 3 days on each.

Let's take a look a little bit closer

The trick

- As I said before, we have decided to follow some rules:
 - The same structure of each particular site
 - The same frontend layout (HEADER HERO BREADCRUMBS CONTENT -FOOTER)
 - The same BEM-methodology and the same class names
- Now let's check our sites

Главная | Каталог товаров

ECE OASIS

Компактный складной электровелосипед ADO A16

















Артикул: ADO_A16

КОМПАКТНЫЙ СКЛАДНОЙ **ЭЛЕКТРОВЕЛОСИПЕД ADO A16**

ADO A16 — универсальный байк с облегченной конструкцией обеспечивает высокую мобильность и скорость передвижения.

- Запас хода на электротяге до 35 км, в смешанном режиме до 70 KM.
- Диаметр колес 16 дюймов.
- 7-ступенчатая трансмиссия Shimano: быстрое переключение передач, полный контроль над движениями.
- Полная зарядка аккумулятора занимает всего 5-6 часов.
- Вес 20 кг, складная алюминиевая рама, яркая LED-фара, удобная приборная панель.

sales@kisskissfish.ru

Продукты у







Артикул: TEAP08-U

Комплект из заварочного чайника и двух чашек Kiss Kiss Fish Boogie Woogie Теароt (зеленый)

- Лаконичный и эстетичный дизайн.
- Удобная конструкция с заварочным ситечком.
- Объемный и легкий 800 мл.
- Создан из боросиликатного стекла высокой прочности.
- Две чашки в комплекте.

Цвет:









Главная | Каталог товаров | Botslab Outdoor Dual-lens Camera W302



Артикул: W302

Botslab Outdoor Dual-lens Camera W302

Два объектива для панорамного обзора.

- Разрешение: 4МР 2.5К.
- Панорамный обзор на 170° благодаря двум объективам.
- Поддержка двух диапазонов Wi-Fi: 2,4 и 5 ГГц.
- Двусторонняя голосовая связь.
- Защита от атмосферных воздействий класса IP66.
- Инфракрасный и полноцветный режим ночного видения.
- Голосовое управление через Алису.

Количество:



10 766 ₽

7 690 ₽









950

Продукты ~



HVS







Артикул: HU0142

Электромельница HuoHou **Electric Pepper & Salt Grinder** (Белая)

• Работает от 6 батареек ААА.

Цвет:



1390₽

Нет в наличии



Главная | Каталог товаров | Smartmi Evaporative Humidifier 2





Артикул: CJXJSQ04ZM

Smartmi Evaporative Humidifier 2

Увлажняет и освежает воздух в доме, задерживает рост и размножение бактерий.

- Удобное управление и отображение параметров на дисплее.
- Здоровое увлажнение: подавляет рост бактерий, очищает воздух от пыли, аллергенов и шерсти животных.
- Равномерное увлажнения воздуха в доме без образования конденсата.
- Работает бесшумно, тратит минимум энергии.
- Качество и скорость увлажнения 260 мл/ч.
- Он оснащен резервуаром для воды емкостью 4 литра, который обеспечивает до 15 часов работы в максимальном режиме.

Количество:



15 587 ₽

11 990 ₽







ГЛАВНАЯ → КАТАЛОГ ТОВАРОВ → РОБОТЫ-ПЫЛЕСОСЫ → РОБОТ-ПЫЛЕСОС ECOVACS DEEBOT OZMO T8 AIVI



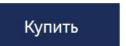
Робот-пылесос ECOVACS DEEBOT OZMO T8 AIVI

АРТИКУЛ DBX11-11

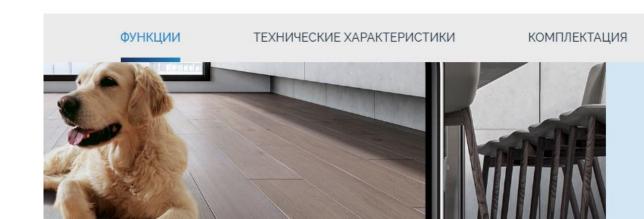
Инновационный робот-пылесос с искусственным интеллектом.

DEEBOT OZMO Т8 AIVI с передовой технологией искусственного интеллекта поднимает уборку на новый уровень. Это идеальный помощник, который одновременно моет и пылесосит, строит подробные карты помещений и прокладывает эффективные маршруты с обходом препятствий. Пропуск или повторение участков исключены. Благодаря технологии TrueMapping и лазерному датчику dToF робот-пылесос не запутается в проводах, не повредит мебель и не утащит за собой мелкие предметы. DEEBOT OZMO Т8 AIVI самостоятельно определяет типы поверхностей, корректирует режим уборки и может автоматически выгружать мусор.

59990₽



Добавить к сравнению



Видеотрансляция в реальном времени

Потоковое видео по запросу — это новая революционная функция. Она позволяет

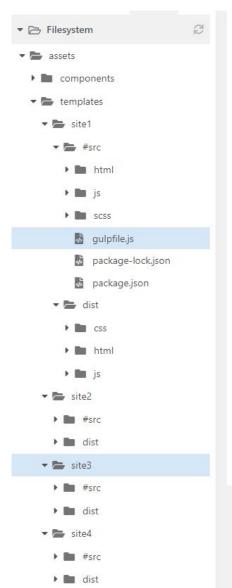
The trick

- We put some rules for our designers just keep it the same structure as much as you can. You can change fonts, sizes, images, icons, paddings, margins, colors, but please stay in the structure.
- Yeah, it looks very identical, but if only you have visited all of them. In the real world it's impossible. No one will remember some familiar site back in time.
- ALL SITES ARE FAMILIAR. ESPECIALLY E-COMMERCE.

The trick

- And because of that our project became simple and powerful in the same time. We can develop & support it extremely fast and this is what our company expects from us.
- Let's take a look at the code

Each frontend files stores in templates/context_key

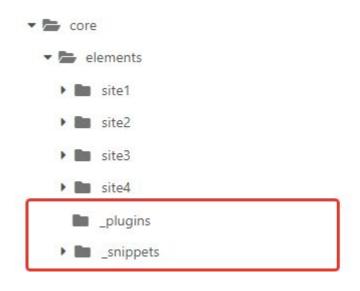


ulpfile.js
ssets/templates/site1/#src/gulpfile.js
0771 B
024-04-17 21:12
024-04-17 21:12
ies(uild, scss, copy, script, sprite),)
ions
e, folders) => { (item) => { n(base, item); }
base, folders) => gulp.src(
=> path.join(base, item)), {
i i e (

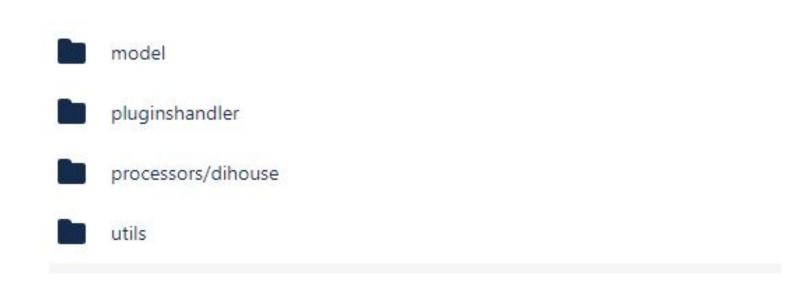
Each backend things stores in core/elements/context_key



Common plugins and snippets are stored in core/elements/



Also we have a special component called Dihouse with some special methods, utils and plugins code



This is how our plugins work

I saw this trick on MODX.pro someday

- events
- pluginhandler.class.php
- dihousemultipluginhandler.class.php
 - cartpluginhandler.class.php
 - initpluginhandler.class.php
 - productpluginhandler.class.php
 - userspluginhandler.class.php

```
/**
 * Class dihousekInitPluginHandler
class dihouseInitPluginHandler extends dihouseMultiPluginHandler
    public function OnMODXInit()
        $this->modx->loadClass('msOrder');
        $this->modx->map['msOrder']['fields']['seller id'] = 0;
        $this->modx->map['msOrder']['fieldMeta']['seller id'] = array(
            'dbtype' => 'int',
            'precision' => 10,
            'attributes' => 'unsigned',
            'phptype' => 'integer',
            'null' => true,
            'default' => 0.
        );
        return true;
```

The MAIN trick

- If we have the same structure, the same code, the same principles we don't have to think about the code. Just COPY/PASTE!
- And this is how we finished it.
- Let's take a look on the Template

```
<div class="product-full-info previev">
   <div class="product-preview">
       <div class="container product-preview body">
              //FENOM EXAMPLE
           <div class="product-preview col-1">
              <div class="product-preview breadcrumb">
                   <a class="breadcrumb link" href="/">MAIN</a>
                      class="breadcrumb item"> <a class="breadcrumb link" href="/catalog/">Products</a>
                      {$name}
                  </div>
                                                                                                                        Just put another HTML and
              <div class="product-preview slider">
                  <div class="product-preview slider-thumbs swiper" data-slider="product-preview-slider-thumbs">
                                                                                                                        change the placeholders!
                      <div class="swiper-wrapper">
                          {foreach result['PROPERTIES']['DETAIL GALLERY']['THUMB'] as gallery thumb img}
                          <div class="swiper-slide product-preview slider-thumbs-item">
                              <imq src="{$qallery thumb imq['src']}" alt="{$name}">
                          </div>
                          {/foreach}
                      </div>
                      <div class="product-preview slider-thumbs-btn" data-action="slider-next"><i class="icon-chevron-down"></i></i></div>
                  <div class="product-preview slider-images swiper" data-slider="product-preview-slider-images" data-zoom-container>
                      //TWIG EXAMPLE
                      {% if result['PROPERTIES']['PROMO STATUS']['VALUE'] %}
                      <div class="product-preview slider-images-label">
                          {% for status key, status in result['PROPERTIES']['PROMO STATUS']['VALUE'] %}
                          <div class="product-label product-label--{{ result['PROPERTIES']['PROMO STATUS']['VALUE XML ID'][status key] }}">{{ status }}</div>
                          {% endfor %}
                      </div>
                      {% endif %}
                      <div data-zoom-zone></div>
                      <div class="swiper-wrapper">
                          {% if result['DISPLAY PROPERTIES']['DETAIL GALLERY']['FILE VALUE']['SRC'] %}
                              {% set only one img = result['DISPLAY PROPERTIES']['DETAIL GALLERY']['FILE VALUE']['SRC'] %}
                              <div class="swiper-slide product-preview slider-images-item">
                                  <img class="swiper-lazy" data-src="{{ only one img }}" data-zoom-img="{{ only one img }}" alt="{{ result['NAME'] }}">
                              </div>
                          {% else %}
                              {% for gallery img in result['DISPLAY PROPERTIES']['DETAIL GALLERY']['FILE VALUE'] %}
                                 <div class="swiper-slide product-preview slider-images-item">
                                     <imq class="swiper-lazy" data-src="{{ gallery img['SRC'] }}" data-zoom-img="{{ gallery img['SRC'] }}" alt="{{ result['NAME'] }}">
                                 </div>
                              {% endfor %}
                          {% endif %}
                      </div>
                      <div class="product-preview slider-images-dots">
                          <div class="slider-dots" data-slider-dots></div>
                      </div>
                  </div>
               </div>
           </div>
```

What about the rest of the code?

• Nothing special, actually. Just PDOTools with Fenom, some custom snippets & plugins and MiniShop2.

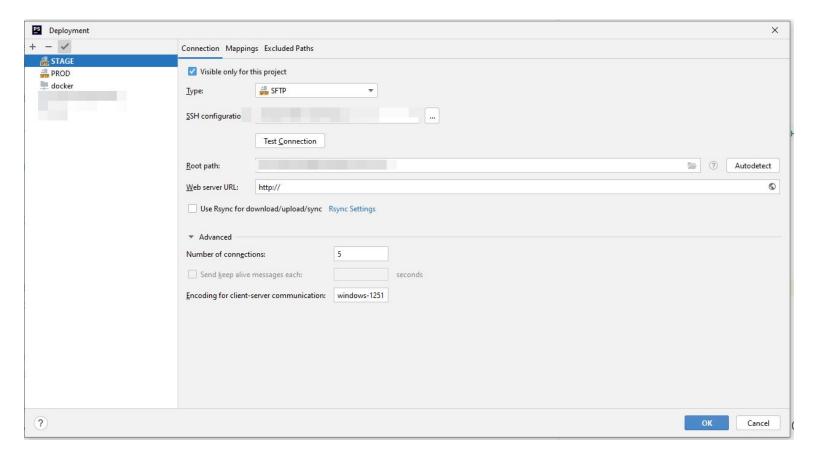
CI/CD

- We had our Gitlab server, but no one in the whole company knew how to set up the CI/CD
- I tried, but no one gave me ROOT to the server.
- No root no SSL.
- NO CI/CD.

You can start laughing, it's really funny, I know.

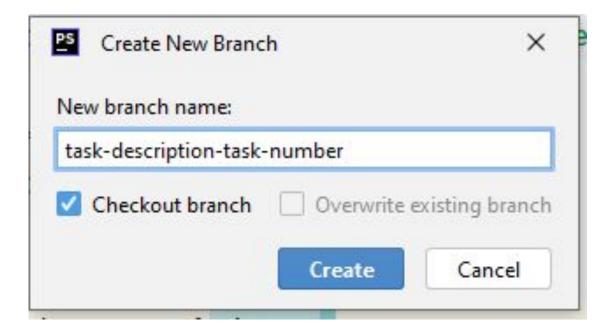
God save JetBrains

- You can create a lot FTP/SFTP/Local connections in PHPStorm
- We had DEV, STAGE and PROD. PROD is only for me, the others for the second developer



God save JetBrains

• Every new task – is a new branch. Master is protected.



God save JetBrains

Push branch on GitLab

Create a PR

Merge

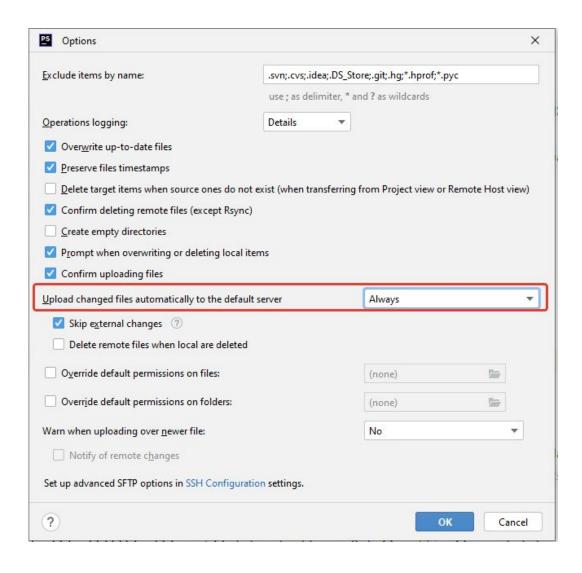
Switch back to master in IDE

Set PROD as default Deployment server (2 slides back)

Pull

All changes will be uploaded on the PROD

Done! You are great!



Conclusion

- Being a programmer is not only about THE CODE.
- Good planning and architecture can save your mental health and probably the job
- Limitations are good. Don't be shy to put anyone into frames if you know why you are doing this
- MODX is still awesome. Can you do it with some other CMS?

Chapter 2. API development

The task

- As I said before, we have to develop new API to transfer the data
 - Product items, Categories, Prices, Stocks, Users, Pictures, Product specifications, Orders and Orders statuses
- Company stock is about 10 000 items. The system should process it fast.
- Our sites are only for clients. No actions with products in /Manager, never.

Limitations

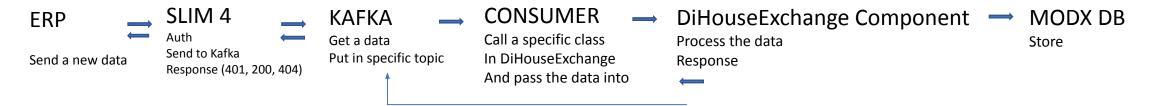
- No existing solutions. We should have created it from scratch
- No existing API. We have to create it.
- Our ERP-system does not support the REST.
- No PUT/GET/DELETE. Only POST.
- Our CTO wanted to use KAFKA so bad

The stack

- Slim 4
- Kafka
- MySQL
- Our PHP component DiHouseExchange to process the receiving data
- MODX / Bitrix
- PHP Unit

The scheme

When ERP starting the exchange



When MODX starting the exchange



MySQL

Keep all requests for logs For 1 week, then delete it (really useful thing)

Slim 4

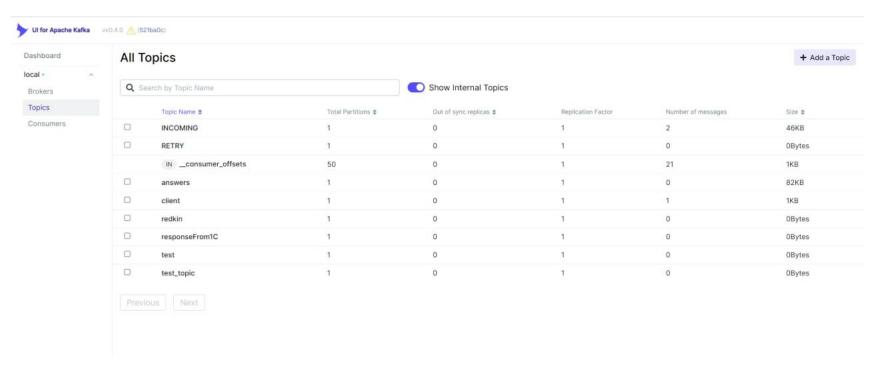
When ERP is sending a data (new products, new stocks, new prices)

- Receive the data
- Check auth
- Put data into Kafka
- Send response (401, 200, 404)

When our site is sending a data (new order, new user, new order status)

- Get the data from Kafka
- Create a request
- Send the data to ERP
- Receive the response

Kafka



- INCOMING topic for all incoming requests. Then it will be transferred to the specific topic
- Each route in API = single topic in Kafka
- Every topic in Kafka = single consumer script in PHP
- For errors we had RETRY topic with retry_count param.
- If retry_count > 5 send a warning to developer
- Answers topic for responses

DiHouseExchange component

- Main class with base methods (request/response/process)
- Each entity has a specific parent class to process the data in CRUD style
 - Products
 - Create Product
 - Update Product
 - Delete Product
 - Get Product
 - Order
 - Create Order
 - Update Order
 - Get Order
 - etc

The main class

```
□<?php
     namespace Api {
  5
           use Api\Log;
  6
           use Api\Main;
  7
           use Api\Config;
  8
           use Api\Iblocks;
           use Api\KafkaProducer;
  9
 10
 11
           class ApiHandler
 12
 13
               public Config $config;
14
               public Iblocks $iblock;
 15
               public ResponseHandler $responseHandler;
 16
               public FieldsMap $mapper;
 17
               public array $last query;
18
               public string $last error;
               public KafkaProducer $producer;
19
20
               public Log $logger;
21
               public ?string $last_api_status;
22
23
24
               public function construct(Config $cfg)
25
51
52
53
 54
                * process all input data, search method & execute, return status
 55
                * @param array $data
56
                * @return bool
57
58
               public function process ($data): bool
59
100
101
                * call response handler & send result message to Kafka
102
103
                * @param $data - data processing result
                * @param $has errors
104
                * @return bool
105
106
107
               public function response($data, $has errors): bool
108
116
117
               protected function success (array $data = null): array
118
124
               protected function error(): array
126
133
               protected function setResult(bool $result, array $data = null): array
134
135
                   return $result ? $this->success($data) : $this->error();
136
137
138
139
```

A specific class Vendors, for example

```
namespace Api {
          use Bitrix\Main\Entity;
          use Bitrix\Main\Loader;
          use Bitrix\Main\Localization\Loc;
          use Bitrix\Highloadblock as HL;
          use CModule;
          use CIBlockElement;
12
13
          use Api\FieldsMap;
14
          use Api\ApiHandler;
          use Api\ResponseHandler;
16
          use Api\Config;
          use Api\KafkaProducer;
18
          use Api\Iblocks;
19
          use Api\Log;
          use Api\Main;
          class Vendors extends ApiHandler
23
24
              1 * *
25
              * method GetVendor
26
               * @param $data
               * @return array
28
29
              public function get($data): array
30
44
45
46
              * create a Vendor element
47
               * @param $data
48
               * @return array
49
50
              public function create($data): array
51
                  $create result = $this->iblock->create($data);
53
                  if (!$create result)
54
                      $this->last error = $this->iblock->last error;
55
                  return $this->setResult($create_result);
56
57
58
59
               * Update Vendor Method
60
               * @param $data /a data that must be updated
61
               * @return array query status
62
63
              public function update ($data): array
64
65
                  $XML ID = $data['XML ID'];
66
                  $element = $this->iblock->getElement($XML_ID);
67
68
                  if (!empty($element && $element['ID'])) {
69
                      $res = $this->iblock->updateElement($element['ID'], $data);
                      $this->last error = 'P-P»PuPjPuPSC, PSPu PSP°PMPrPuPS PëP»Pë PSPuPïCbP°PIPëP»CbPSPs P·P°PrP°PS GUID';
72
                      $res = false;
73
74
75
                  return $this->setResult($res);
76
78
79
               * delete a Vendor element
```

A Consumer

To make it stable all consumers are running from Supervisord – daemon service to keep consumers alive

```
#!/usr/bin/php
      define ("NO KEEP STATISTIC", true);
      define ("NOT CHECK PERMISSIONS", true);
      define ("BX CAT CRON", true);
      define ('NO AGENT CHECK', true);
8
      require($ SERVER["DOCUMENT ROOT"]."/bitrix/modules/main/include/prolog before.php");
9
      \Bitrix\Main\Loader::includeModule('api');
11
      $config = new \Api\Config([]);
13
      $broker = $config->options['KAFKA CONNECTION'];
      $topic_name = $config->options['VENDORS_TOPIC'];
14
15
     if ($broker == '' && $topic_name == '') {
16
17
          die ('PŔPu CŕPeP°P·P°PSC PïP°CЪP°PjPuC, CЪC PïPsPrPeP»CЪC‡PuPSPëCU!'.PHP EOL);
19
20
      $conf = new RdKafka\Conf();
21
22
      $conf->set('group.id', 'group_id');
23
24
      $rk = new RdKafka\Consumer($conf);
25
      $rk->addBrokers($broker);
26
27
      $topicConf = new RdKafka\TopicConf();
28
      $topicConf->set('auto.commit.interval.ms', 100);
29
      $topicConf->set('auto.offset.reset', 'smallest');
      $topic = $rk->newTopic($topic_name, $topicConf);
      $topic->consumeStart(0, RD KAFKA OFFSET STORED);
34
35
     while (true) {
36
          $message = $topic->consume(0, 120 * 10000);
37
          switch ($message->err)
              case RD KAFKA RESP ERR NO ERROR:
39
                  if (isset($message->payload) && $message->payload != '') {
40
                      $data = json decode($message->payload, 1);
41
                      $site_id = $config->getSiteByShopId($data['shopId']);
                      $config->set('IBLOCK_ID', $config->options[$site_id . '__VENDORS_IBLOCK_ID']);
42
43
                      $vendors = Api\Main::$container->make('Api\Vendors', [
44
                          'cfg' => $config
45
46
                      $vendors->process($data);
47
                      $topic->offsetStore(0, $message->offset);
48
                      unset (Svendors);
49
51
              case RD_KAFKA_RESP_ERR__PARTITION_EOF:
                  echo "No more messages; will wait for more\n";
53
54
              case RD KAFKA RESP ERR TIMED OUT:
                  echo "Timed out\n";
56
                  break;
57
58
                  throw new \Exception($message->errstr(), $message->err);
59
60
61
```

The API

- We took OpenAPI and made it simplier for our purposes
- Our API was stored in POSTMAN to collaborate between PHP-developers and our ERP-developers
- BaseAuth (1C still cannot use JWT in 2024)
- Async

```
"collection": "orders",
       "method": "update",
       "version": 1,
        "apiKey": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9",
        "shopId": "adoebike",
        "requestId": "285b01cd-61e5-45cd-960e-879f72979416",
8
        "info": {
9
          "user":
10
            "id": "1",
            "fio": "Администратор Сайта",
12
            "phone": "7937777777",
13
            "email": "dev-it@di-house.ru"
14
          "delivery": {
16
            "type": "Мексиканским курьером",
17
            "address": "Пэ шарман долителейн сидней",
            "price": 500
19
          "payment": [
21
              "type": "Наличный расчет",
              "price": 155000
24
26
              "type": "Бонусный счет",
27
              "price": 480
28
29
          "order":
31
            "number": "ADO-145",
            "quid": "bx 6319bbe441722",
            "status": "N",
34
            "amount": 155480,
            "create date": "08.09.2022 12:54:44"
36
          "products": [
              "quid": "4b142e1f-8651-41ab-b30e-de7e30fcad55",
39
40
              "quantity": 1,
41
              "price": 73990,
42
              "discount": 1000,
              "warehouse": "4b142e1f-8651-41ab-b30e-de7e30fsklad2"
43
44
45
46
              "quid": "4b142e1f-8651-41ab-b30e-de7e30fcad66",
47
              "quantity": 1,
48
              "price": 81990,
49
              "discount": 0,
              "warehouse": "4b142e1f-8651-41ab-b30e-de7e30fsklad1"
52
53
54
```

Sorry for Russian labels, but this is all I have found

In this particular example we are transferring the order from our site to our ERP.

Please, pay your attention – we can update created order And also we can split the payment – total amount, total discounts, how many Money was spent with Loyalty Program, and what was the delivery price.

No one should go to the Manager to check the data. All data is already sent to ERP and CRM

Testing

- The whole system was covered with tests on PHPUnit
- We put tests on each route, each class, each method
- For API testing we have used PHPUnit with some kind of JSON generator, based on FakerPHP (really awesome thing)

An test example

```
⊟<?php
      use Bitrix\Main\Loader;
      use Api\Main;
      use Api\Tools;
      use PHPUnit\Framework\TestCase;
      final class VendorsClassTest extends TestCase
9
10
          public Api\Vendors $vendor;
          public Api\FieldsMap $mapper;
13
          protected function setUp(): void
14
15
              Loader::includeModule('api');
16
17
              $shop id = 'shop test';
18
19
              $config = Main::$container->get('Api\Config');
21
              $this->mapper = Main::$container->get('Api\FieldsMap');
22
23
              $site id = $config->getSiteByShopId($shop id);
24
              $config->set('IBLOCK_ID', $config->options[$site_id . '__VENDORS_IBLOCK_ID']);
25
26
              $this->vendor = Main::$container->make('Api\Vendors', [
27
                  'cfg' => $config
28
              1);
29
30
31
          public function testCanCreateVendorElement()
32
33
34
              $vendor item = [
35
                  "NAME" => $this->randString(),
                  "XML ID" => $this->randGuid(),
36
37
38
39
              $res = $this->vendor->create($vendor item);
40
              $this->assertTrue($res['status']);
41
42
43
          public function testCantCreateVendorElement()
44
45
              $vendor item = [
46
                  "NAME" => $this->randString(),
47
                  "XML_ID" => $this->faker->randomNumber(),
48
49
              $res = $this->vendor->create($vendor_item);
50
51
              $this->assertFalse($res['status']);
52
53
54
          protected function tearDown(): void
55
56
              if (isset($this->vendor->iblock->element_id) && is int($this->vendor->iblock->element_id)) {
57
                  $this->vendor->iblock->deleteById($this->vendor->iblock->element id);
58
59
60
```

What about the performance?

- We were limited by default processors. Yeah, we could just put the data in DB and it would be faster, but on the other side a lot of problems could be discovered. I don't want to make my head ache.
- So, our DiHouseExchange Component is using standard MODX processors like object/create, object/update, etc.
- 500 product items with full bunch of data except the pictures were created just in 5 minutes.
- The full launch was made after me, but, as I know, everything is fine.

After 14 months after I left the company it's still working fine

And this is why I can say we've done it well.

Обмен почти не трогали, работает как часики. Там больше со стороны 1С иногда косяки бывают 15:58

Thank you!

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