



OutSystems Jump Start Workshop



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Agenda

- Kurze Vorstellungsrunde
- Ein paar Worte zu uns
- Die Funktionen der OutSystems Platform
- Kurze Live Demo
- Hands on: Gestalten einer Reactive Web App
- Hands on: Sie bauen eine mobile App (optional)
- Q&A



Jump Start **Training**

Vorstellungsrunde



Vorstellungsrunde

- ★ Melden Sie sich. Lassen Sie uns wissen, wer Sie sind :)
- ★ Stellen Sie sich vor. Nennen Sie allen Ihren Namen, Ihr Unternehmen und Ihre Rolle im Job.
- ★ Was ist eine Sache, die Sie während des heutigen Workshops zu erreichen hoffen?



Kurz über uns



 outsystems

Partner

SALES

DELIVERY

TRAINING

Wir sind Ihr Full-Service Provider für OutSystems in Deutschland



Wir sind Komplettanbieter



**Anforderungs-
aufnahme**



Spezifikation



Beratung



Umsetzung



**Installation/
Konfiguration**



**Support
1st bis 3rd Level**

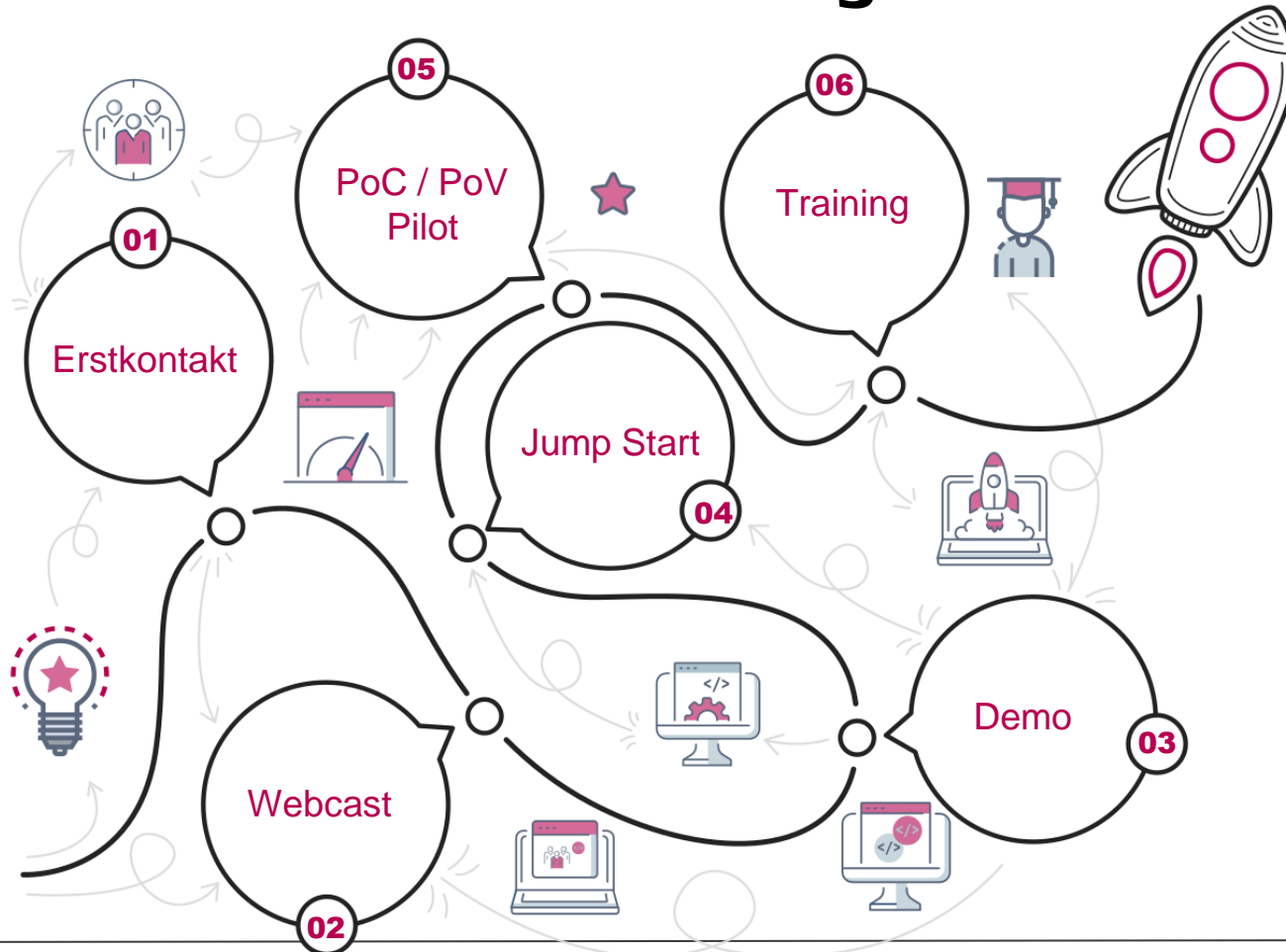


**Managed Services
24 x 7**



**Schulungen/
Training**

Ihre Schritte zum Erfolg



Aktuelle Termine:

27.01. – 31.01.2025:
Schulung: OutSystems
ODC Developer

10.03. – 14.03.2025:
Schulung: OutSystems
Reactive Developer

19.03. – 21.03.2025:
Schulung: OutSystems
Architecture Specialist

Weitere Termine und
Anmeldung unter:
<https://www.agentbase.de/termine>

Jump Start **Training**

**Do you have
environment ready?**

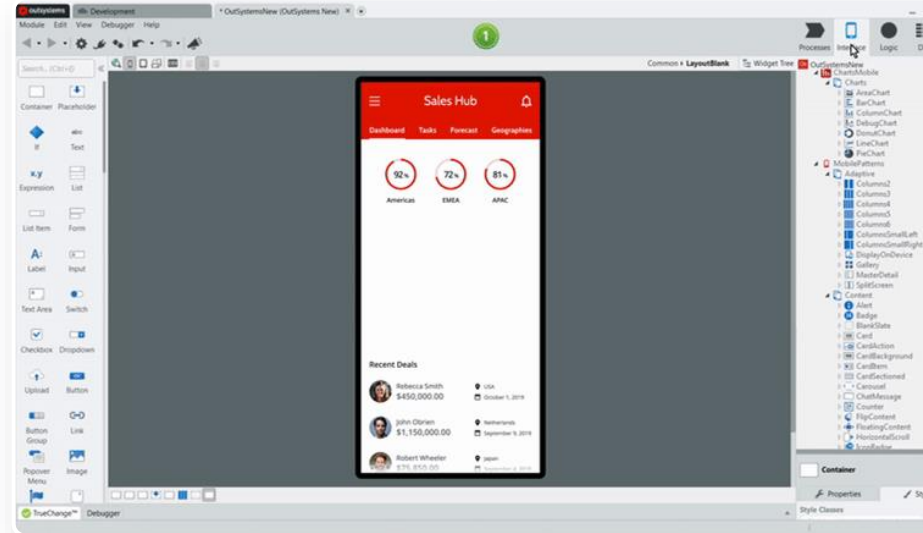
Personal environment and development
studio



Jump Start Training

Low Code

Develop enterprise-grade applications. Fast.



It's all about code

Don't confuse Low-code with No-code

```
public class TcpClientSample
{
    public static void Main()
    {
        byte[] data = new byte[1024]; string input, stringData;
        TcpClient server;
        try{
            server = new TcpClient(" . . . .", port);
        }catch (SocketException){
            Console.WriteLine("Unable to connect to server");
            return;
        }
        NetworkStream ns = server.GetStream();
        int rcv = ns.Read(data, 0, data.Length);
        stringData = Encoding.ASCII.GetString(data, 0, rcv);
        Console.WriteLine(stringData);
        while(true){
            input = Console.ReadLine();
            if (input == "exit") break;
            newchild.Properties["ou"].Add
            ("Auditing.Department");
            newchild.CommitChanges();
            newchild.Close();
            newchild.Dispose();
        }
    }
}
```

High-Code



**<no>
</code>**



Low-code
is about
**applying
automation**
to software
delivery.

OutSystems low-code development platform



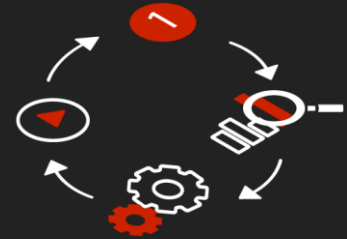
Visual Full-Stack Development

Get an app really fast...



Deploy to Any Touchpoint

Responsive Web Apps
Mobile Apps
PWAs



Full Life Cycle

Create > Deploy > Monitor
> Manage

Use cases for low-code



Digital Operations

Streamline inefficient, manual, and paper-based processes



Digital Experiences

Engage your customers



Digital Core

Transform large legacy systems

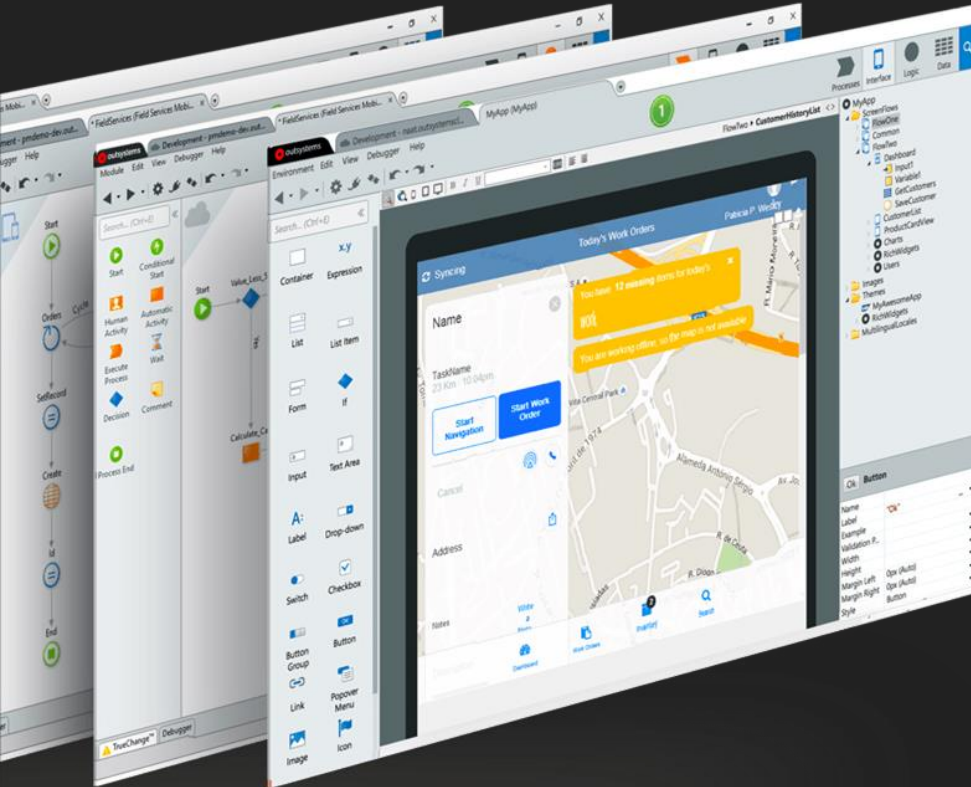


Jump Start Training

OutSystems Capabilities

Platform Technical Overview

High speed delivery



- Full-stack visual development
- Single-click deployment
- Mobile made easy
- Automatic refactoring
- In-app feedback

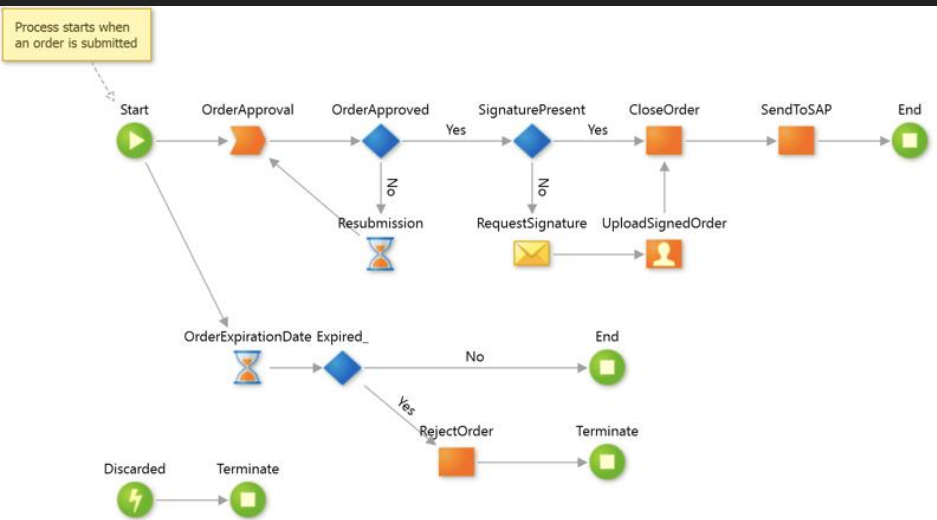


“Faster, more accurate development”

5/5 ★★★★★

Workflow capabilities

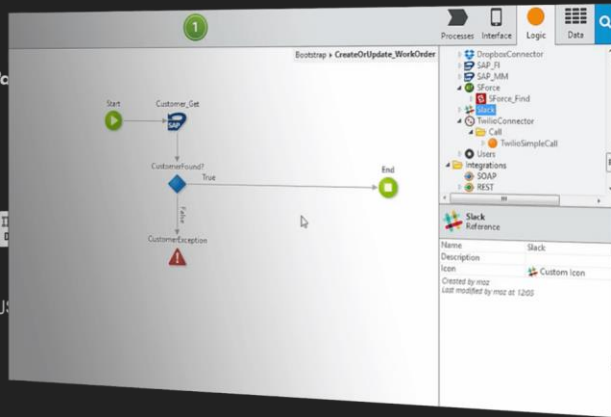
trustradius



- Business Workflows **integrated with applications** (UI interfaces web and mobile, Logic, datamodel, web services, ...)

- Orchestrate** complex logic
- Build **asynchronous** process
- Scalable** and **Performant** engine able to process millions of activities

Integrate with everything



- Pre-built connectors
- SOAP and REST integration without coding
- Connect with popular cloud services
- Orchestrate with workflow & business logic
- Create your own connectors

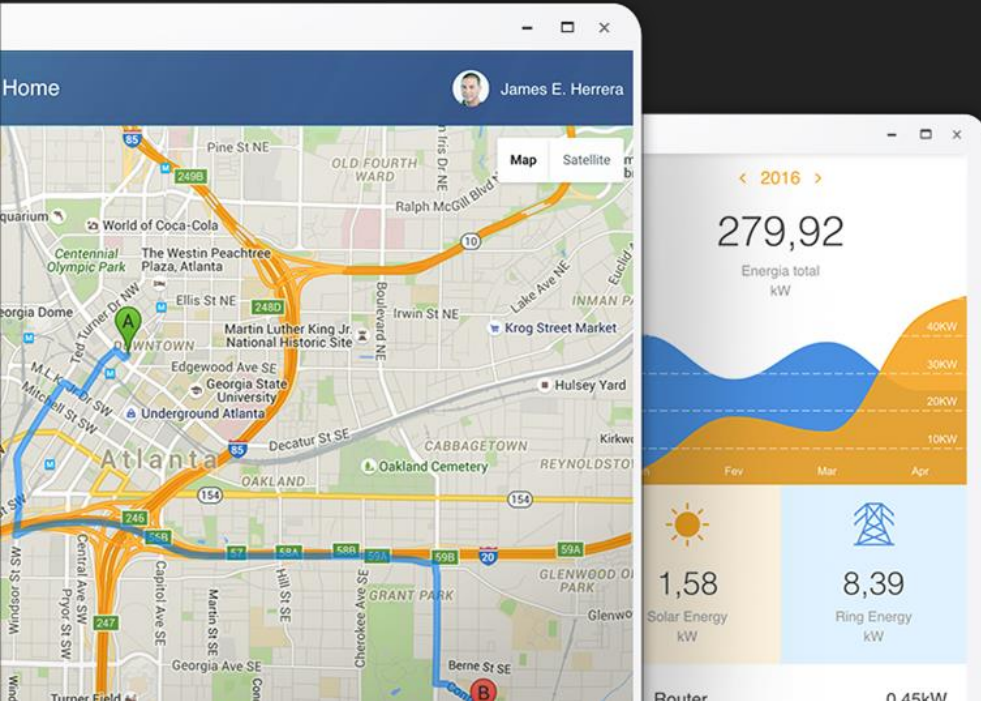
trustradius

“Flexible and has huge integration capabilities”

5/5 ★★★★★

Great UX by default

- Beautiful patterns and controls
- Sub 80 millisecond response time
- Drag-and-drop with pixel perfect control
- Extend with your own UI code
- Develop once for every form factor
- See and test immediately on-device



“One of the most transformative products in years”

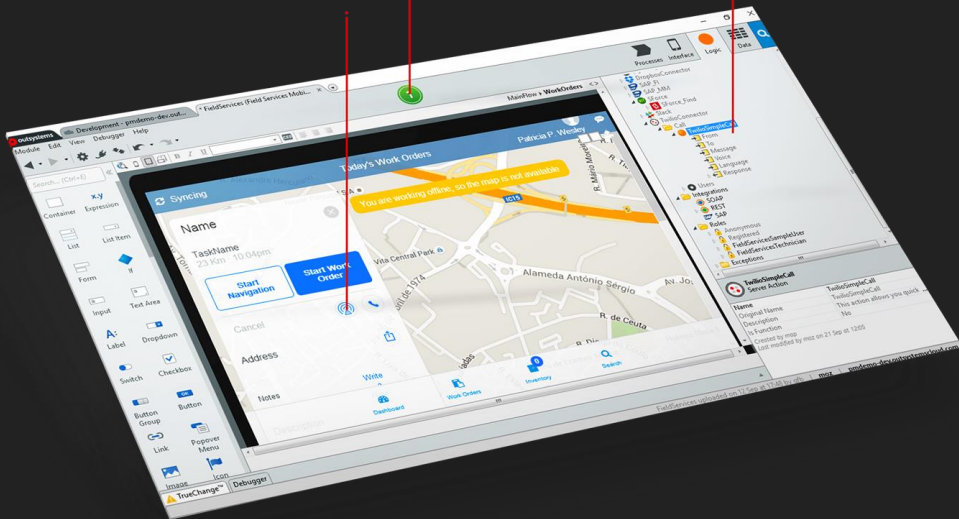
5/5 ★★★★★

Low-code **without constraints**

No runtime interpreters

Wrap your existing code

Create your own reusable extensions



- Wrap and include existing code
- Create reusable extensions
- Standard code
- No runtime interpreters
- No proprietary data-models

trustradius

“OutSystems Rocks!”

5/5 ★★★★★

Enterprise-grade operations

- Security
- Scalability
- Performance
- Architecture
- Flexible deployments



“Mobile app dev with OutSystems is truly amazing”

5/5 ★★★★★



Van Ameyde created a system that supports 16 different countries and their unique claims handling requirements with over 46 million running process instances and more than 320 million activities in flight.



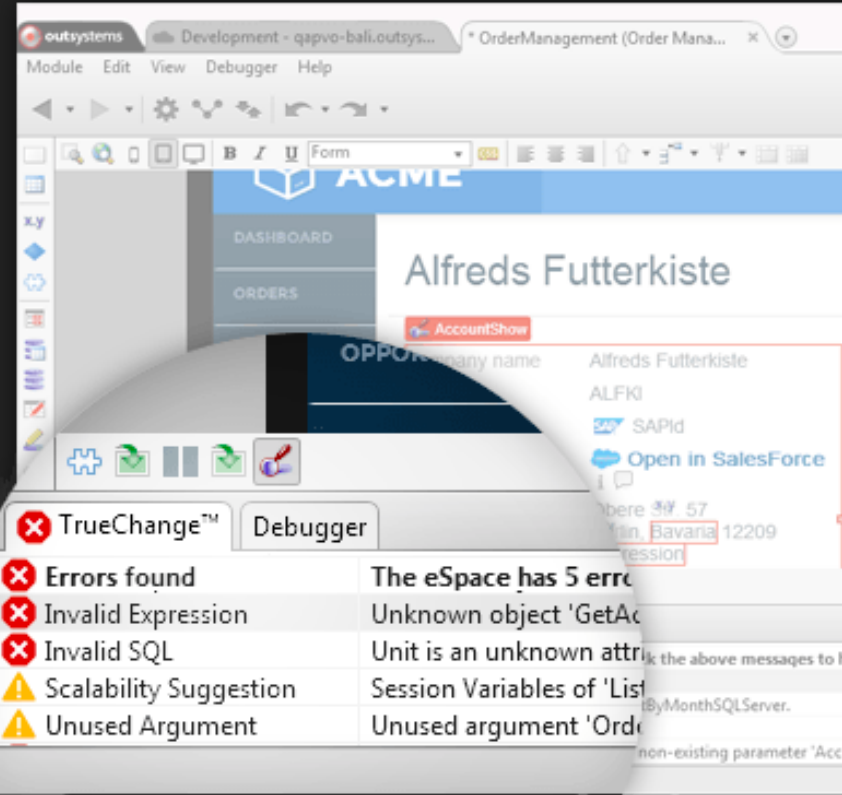
Unbreakable deployment

- Automatic impact assessment
- Single-click rollback
- Automatic staging
- Automatic dependency updates



“Development game-changer”

5/5 ★★★★★



Built-in DevOps solution

- Manage application full life cycle
- Automated deployment with impact analysis and dependency checking
- User management capabilities
- Continuous integration and delivery
- Deployment management API (Jenkins, Azure DevOps, other devops tools)

trustradius

“It marries the best of DevOps with integration tools”

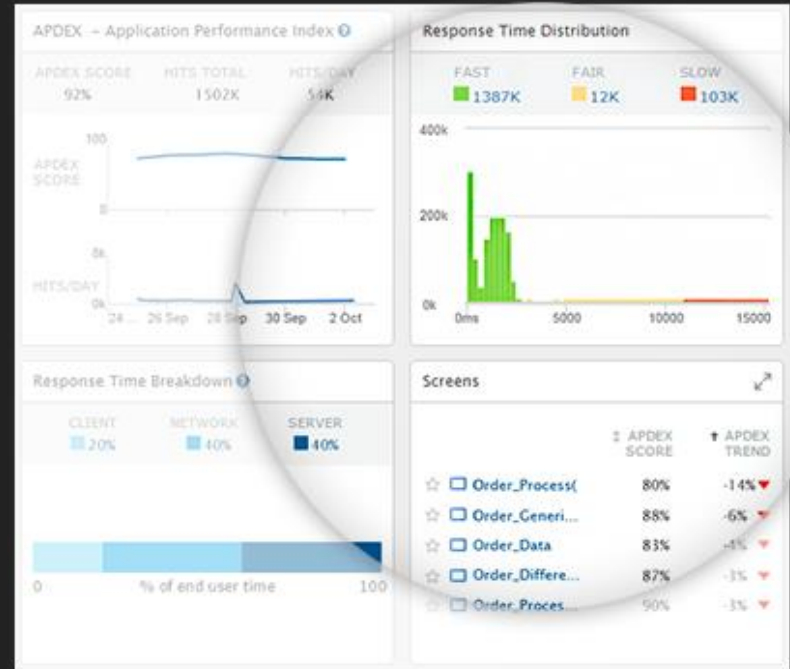
5/5 ★★★★★

The screenshot displays the Trustradius dashboard for application management. At the top, there is a navigation bar with the 'outsystems' logo and tabs for 'APPLICATIONS', 'USER MANAGEMENT', 'ENVIRONMENTS', and 'ANALYTICS'. Below the navigation bar is a 'Search Applications' section with a search input field and a 'Search' button. A 'Show All' link is also present. The main content area features a table of applications, organized into two columns: 'Development' and 'Production'. A green 'DEPLOY...' button is positioned between these columns. The table lists various applications with their versions, last update dates, and user information.

	Development	DEPLOY...	Production
Amazon Rekognition	0.1+ Oct 9, 16:01 Administrator		0.1 Sep 4, 14:29 joao.carvalho@outsystems.cc
Barcode Plugin	0.1+ Oct 19, 08:59 joao.carvalho@outsystems.cc		0.1 Sep 4, 14:29 joao.carvalho@outsystems.cc
Business Activity Monitoring	0.1+ Oct 19, 09:00 joao.carvalho@outsystems.cc		0.1 Sep 4, 14:29 joao.carvalho@outsystems.cc
Camera Plugin	0.1+ Oct 19, 09:04 joao.carvalho@outsystems.cc		0.1 Sep 4, 14:29 joao.carvalho@outsystems.cc
Card IO Plugin	0.1+ Oct 19, 09:00 joao.carvalho@outsystems.cc		0.1 Sep 4, 14:29 joao.carvalho@outsystems.cc
Charts Mobile	1.0+ Oct 19, 08:54 joao.carvalho@outsystems.cc		1.0 Sep 4, 14:29 joao.carvalho@outsystems.cc
Charts Web	1.0+ Oct 19, 08:55 joao.carvalho@outsystems.cc		1.0 Sep 4, 14:29 joao.carvalho@outsystems.cc
Common Plugin	0.1+ Oct 19, 08:58 joao.carvalho@outsystems.cc		0.1 Sep 4, 14:29 joao.carvalho@outsystems.cc

Metrics that matter

- Automatic instrumentation of your apps
- Monitor application performance
- Real-time drill down to identify root cause
- Customizable performance dashboards
- API-based access to performance data



GetApp[®]

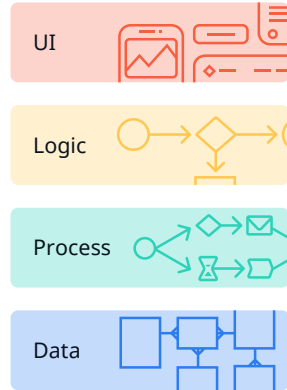
“OutSystems changed my life”

5/5 ★★★★★

OUTSYSTEMS PLATFORM OVERVIEW

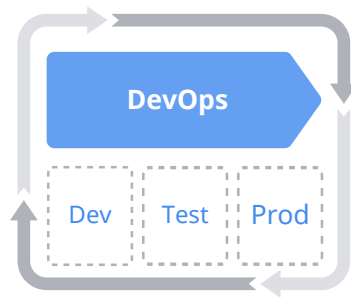
Full-Stack

Empower Developers
Extend reach outside IT



Full-Lifecycle

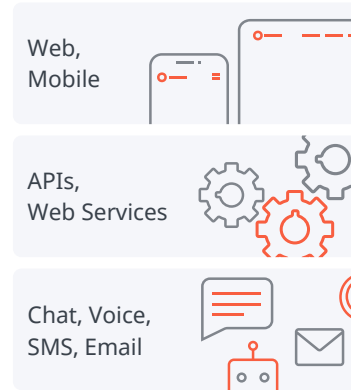
Be agile and continuously change
Automated software lifecycle



CI/CD, Monitoring,
User Feedback, Governance

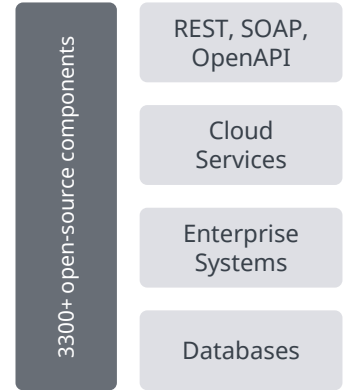
Experiences

Reach all touchpoints
Widest range of digital experiences



Integrate & Extend

Never start from scratch
Limitless and easy integration



Scale

Security

Performance

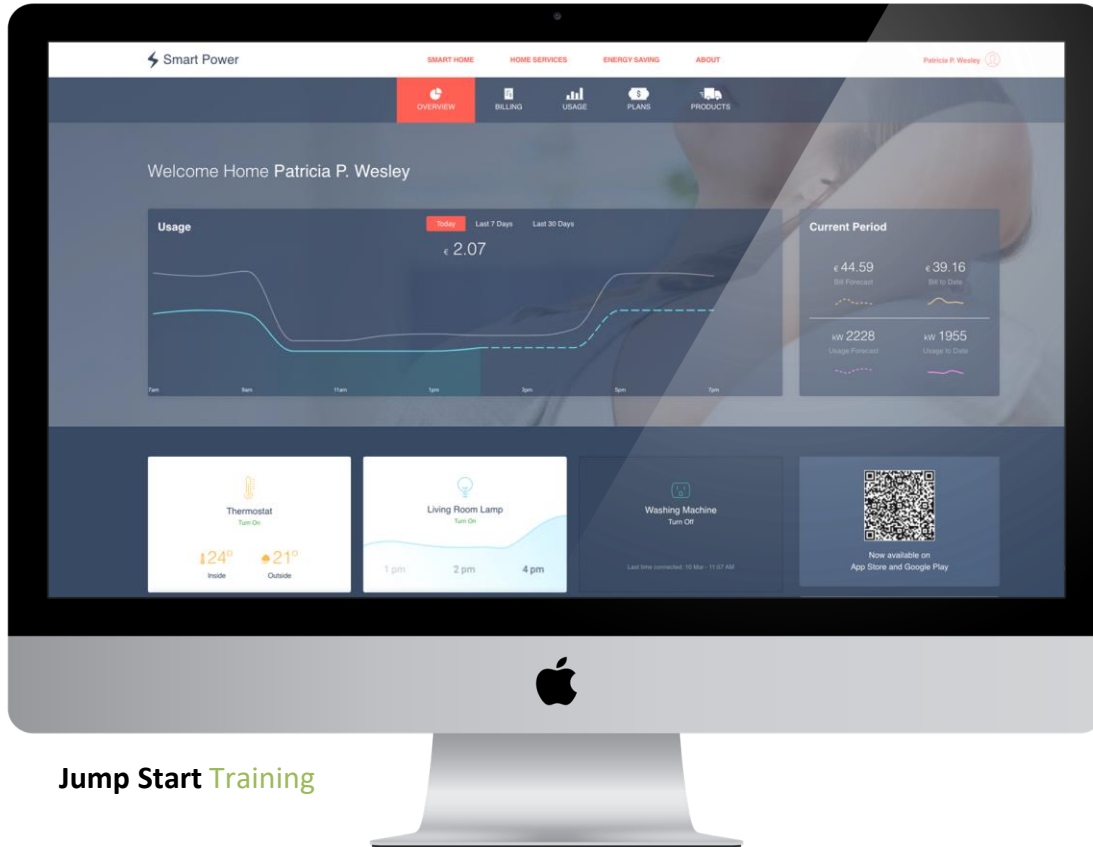
Flexible Deployment

Jump Start Training

OutSystems **Live Demo**

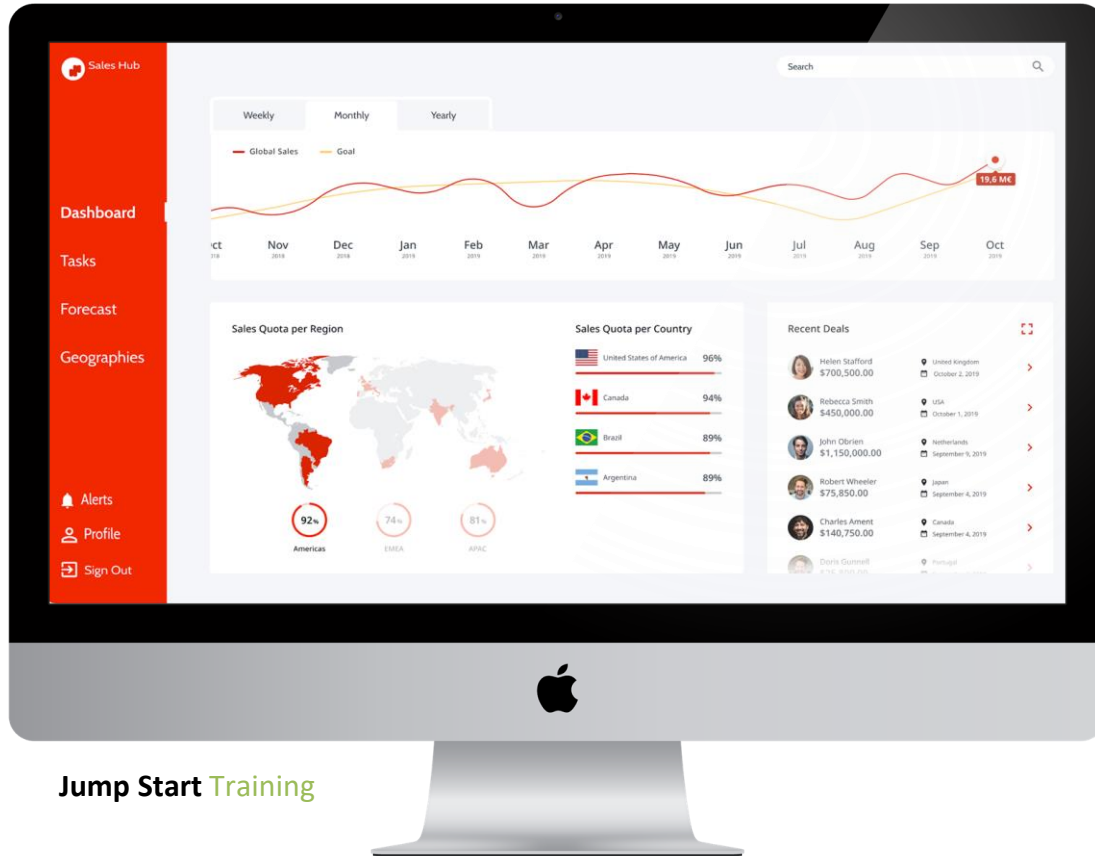
"See it to believe It"

Real World Apps - Examples

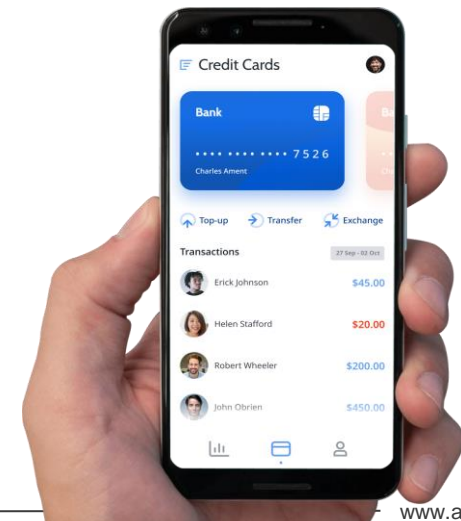
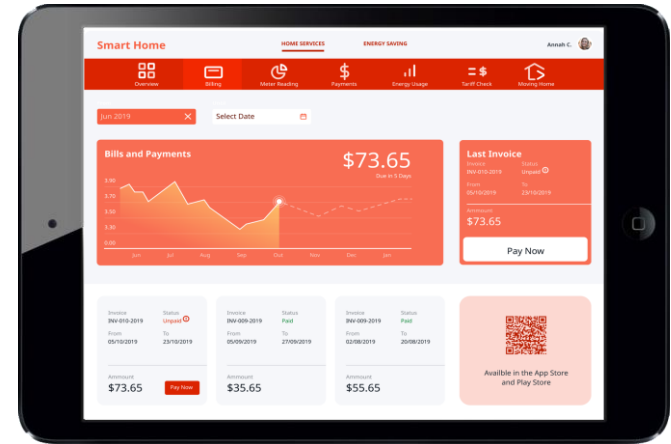


Jump Start Training

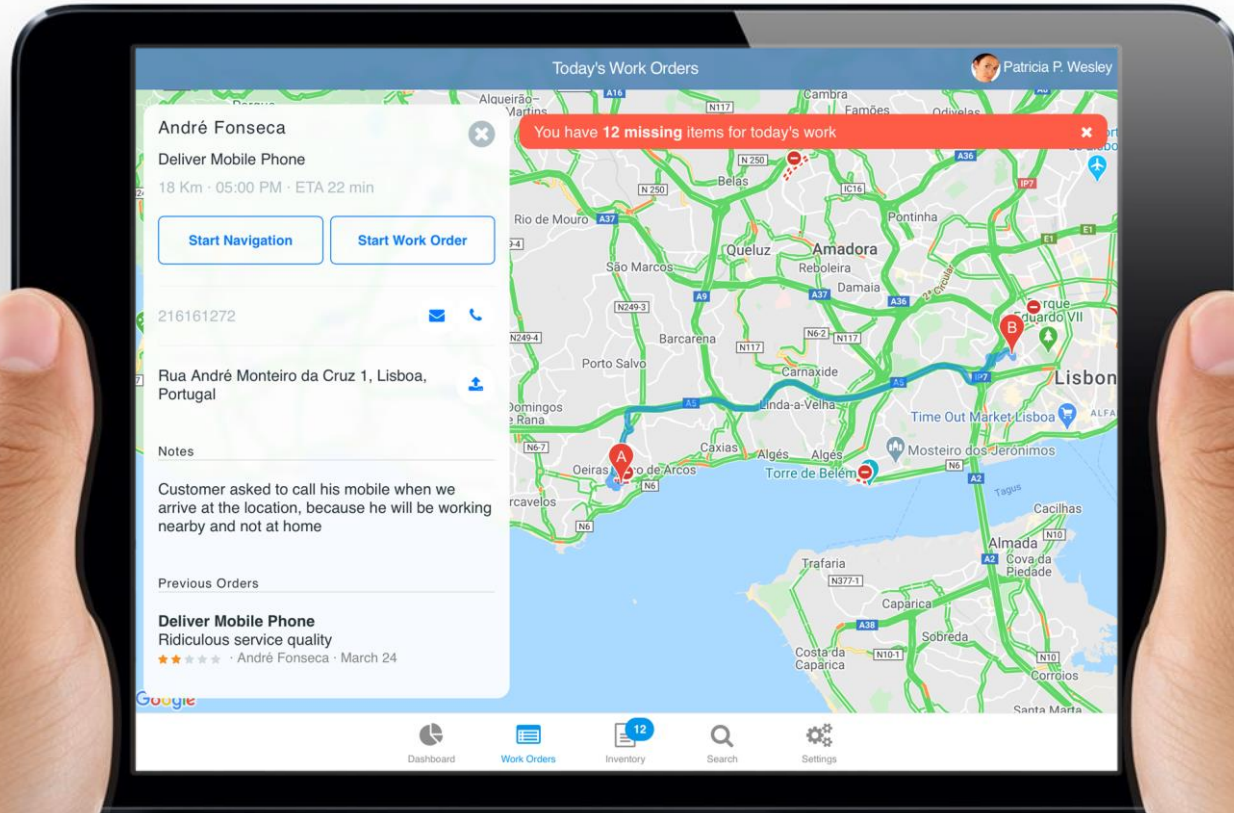
Real World Apps - Examples



Jump Start Training



Real World Apps - Examples



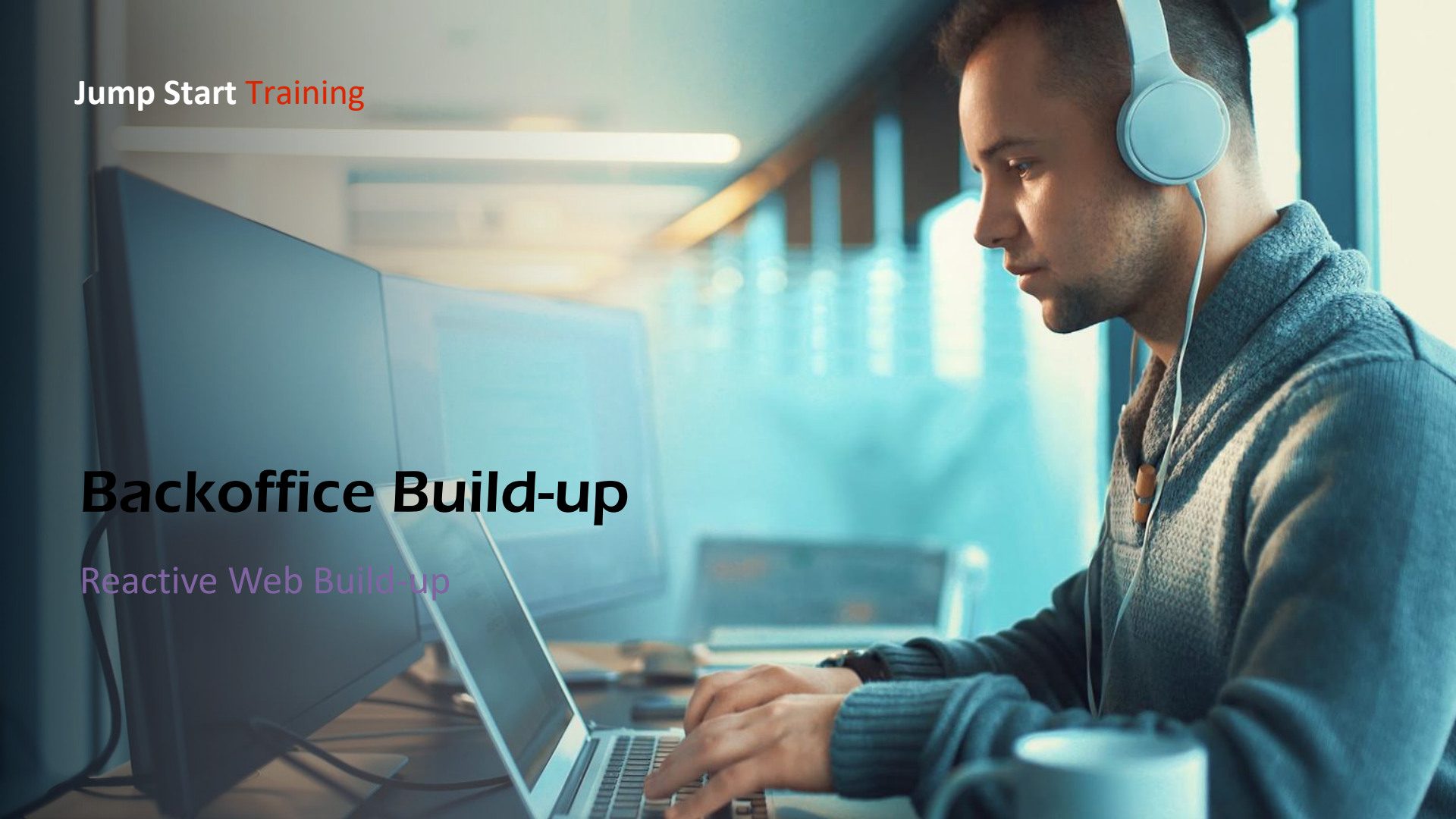
Real World Apps - Examples



Jump Start **Training**

Backoffice Build-up

Reactive Web Build-up



Backoffice

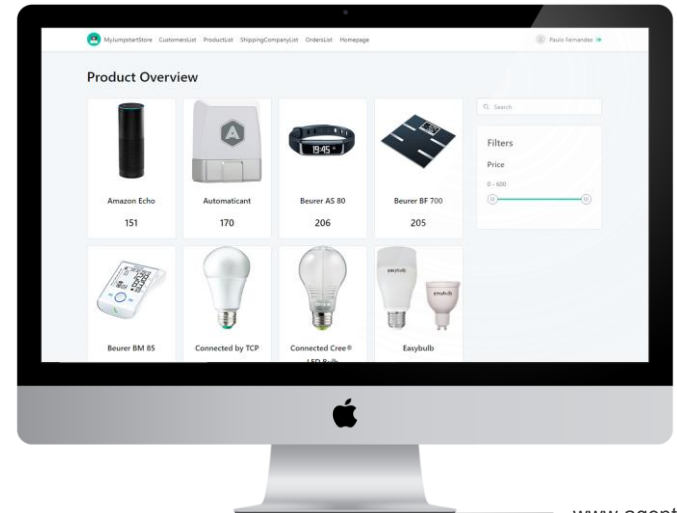
What are we going to build

“Company ACME Goods is a retail distribution company that acquires its products directly from the suppliers and sell them to small/medium shops, although is considering to sell them directly as well.

ACME Goods is looking for an application to manage their existing customer base information, manage their inventory and relations with their shipping companies.

Main Needs:

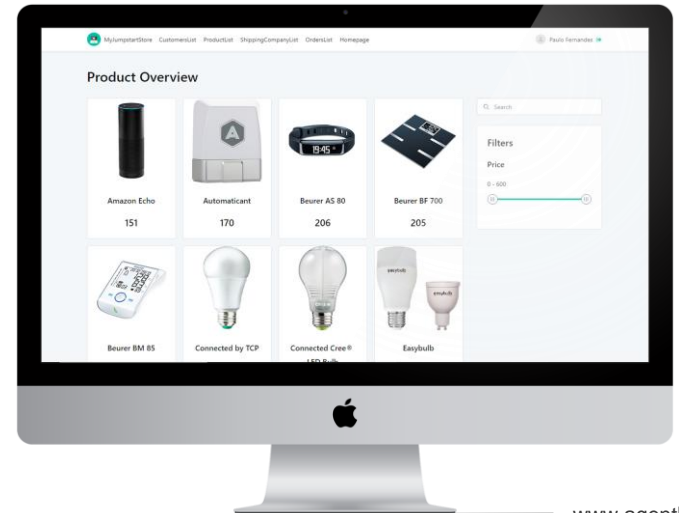
1. Manage **Customers** information
2. Manage **Products** information
3. Manage **Shipping Company** information
4. Manage **Orders**



Backoffice

What are we going to build

- During the next **20 minutes** we will build a **Backoffice from scratch**. Here is what we will do:
 1. Create the **data model**
 2. Create **screens** to manage data
 3. **Adapt the Order screens** to meet business needs
 4. **Create Logic** to add items to existing orders
 5. **Expose REST API** with products



Jump Start **Training**

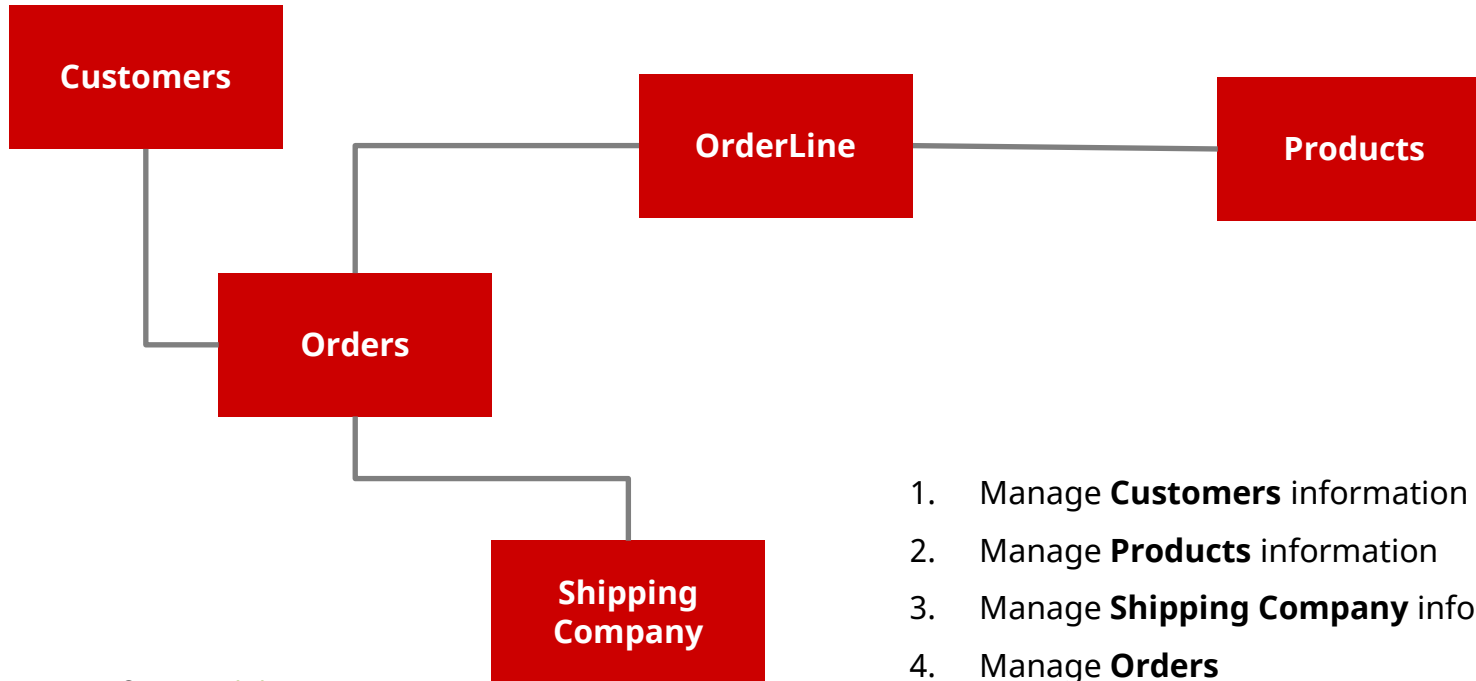
Data Model

Creating your Application Data Model



Data Model

Creating your Application Data Model



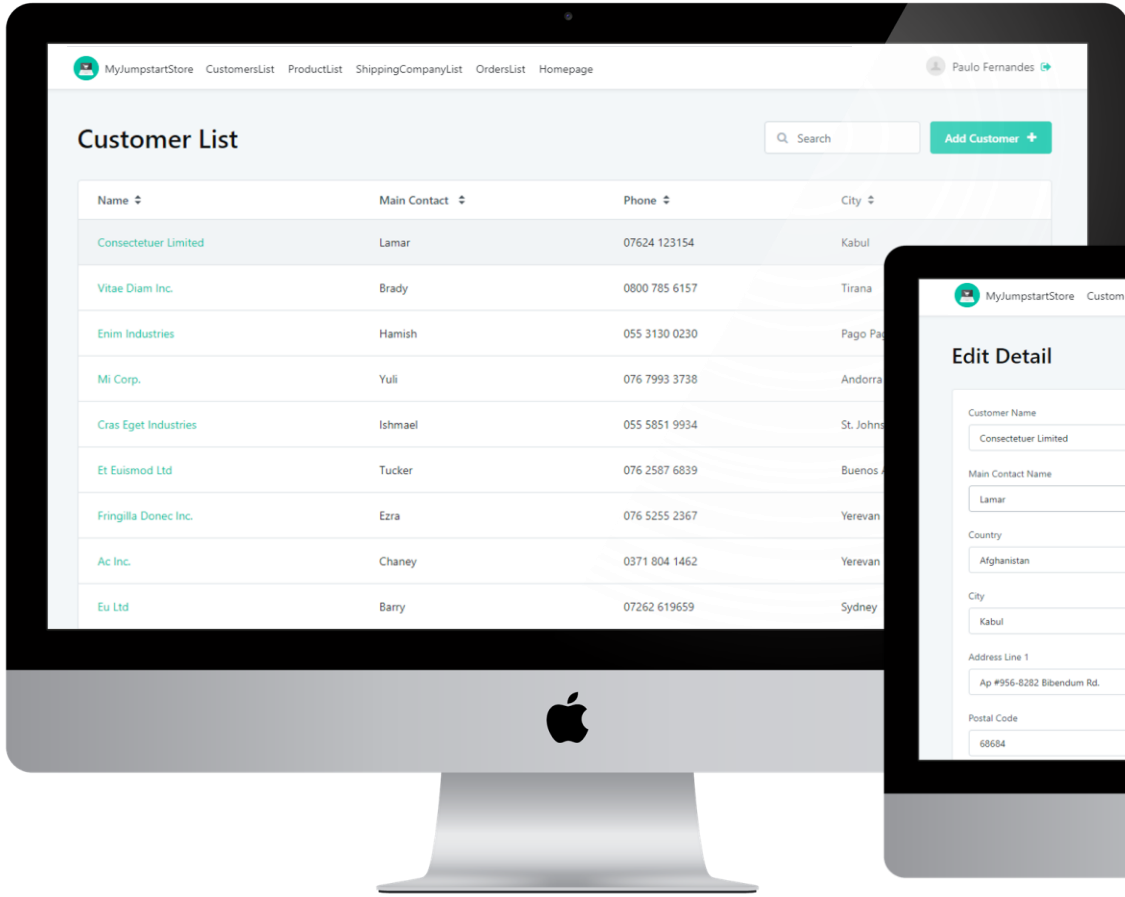
1. Manage **Customers** information
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4. Manage **Orders**

Jump Start Training

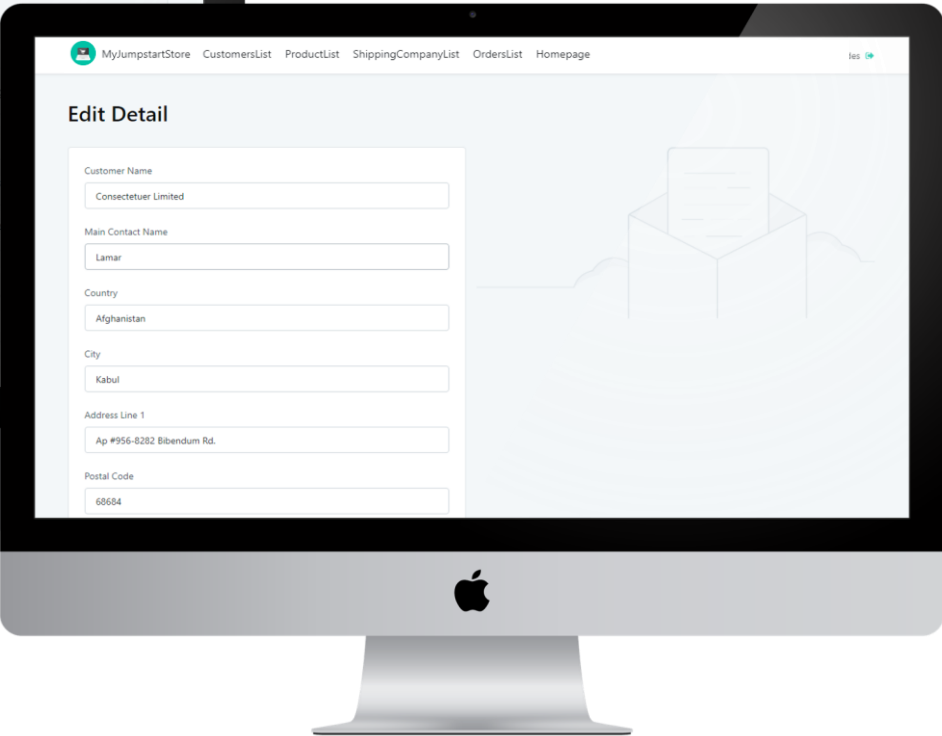
Create Screens

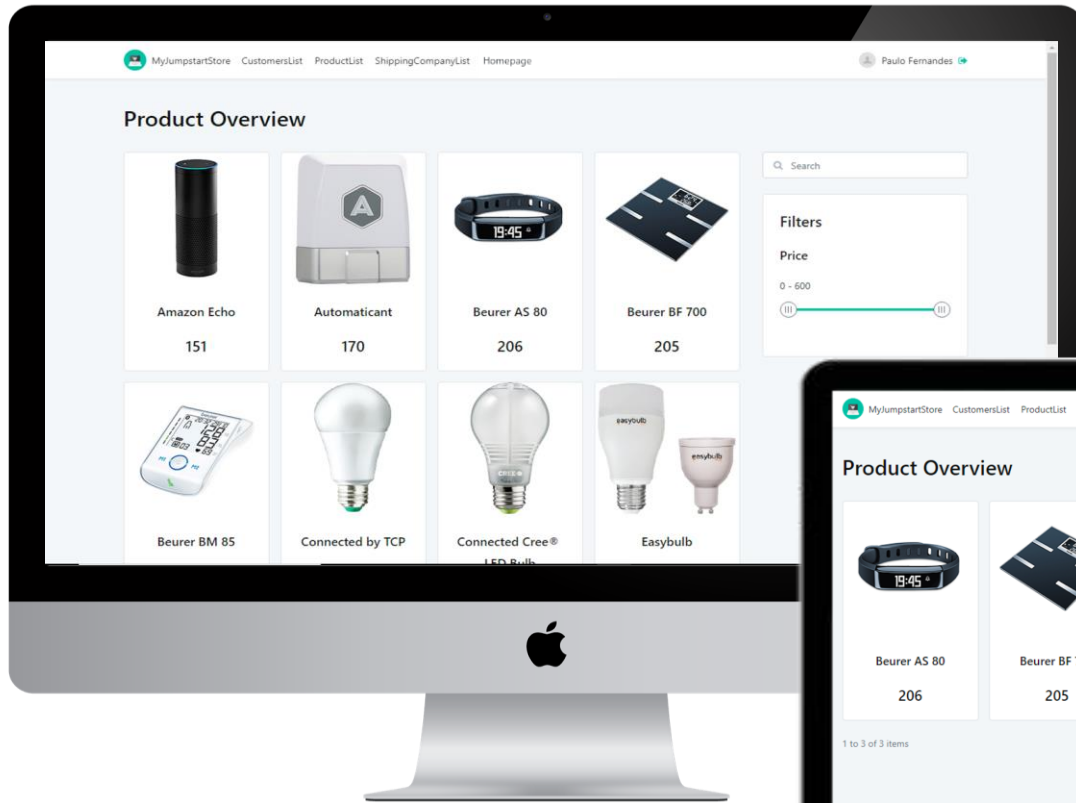
Create your application screens



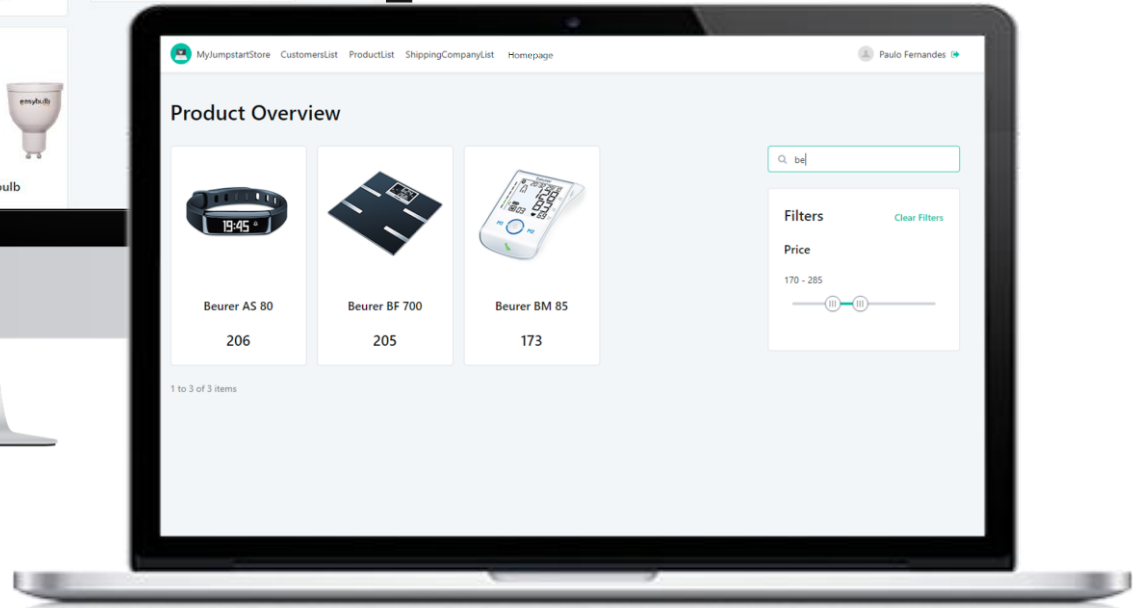


Customer List and Detail Screens
Shipping Company List and Detail Screens
Order List and Detail Screens





Home Page Screen



Jump Start Training

Adapt Order Screens

Adapt the screens to meet your needs



Adapt Order Screens

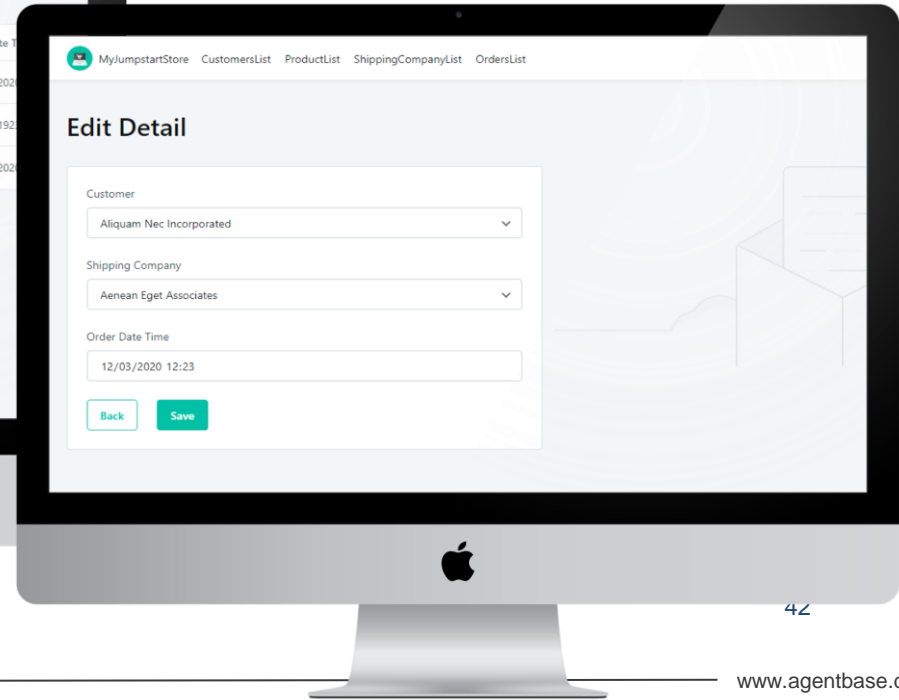
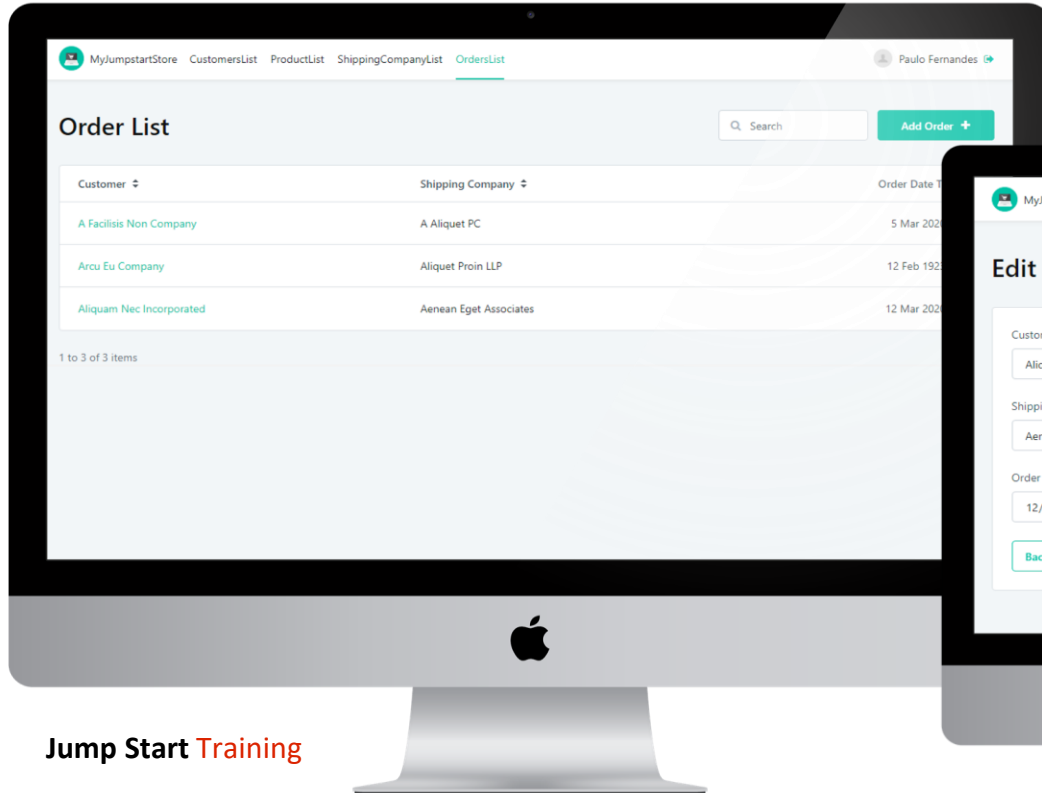
Meet your needs

- We want to enable users to add order lines (items) to existing orders.
- To do this we need to adapt the Order List and Detail screens to meet our needs.

Adapt Order Screens

Current Screens

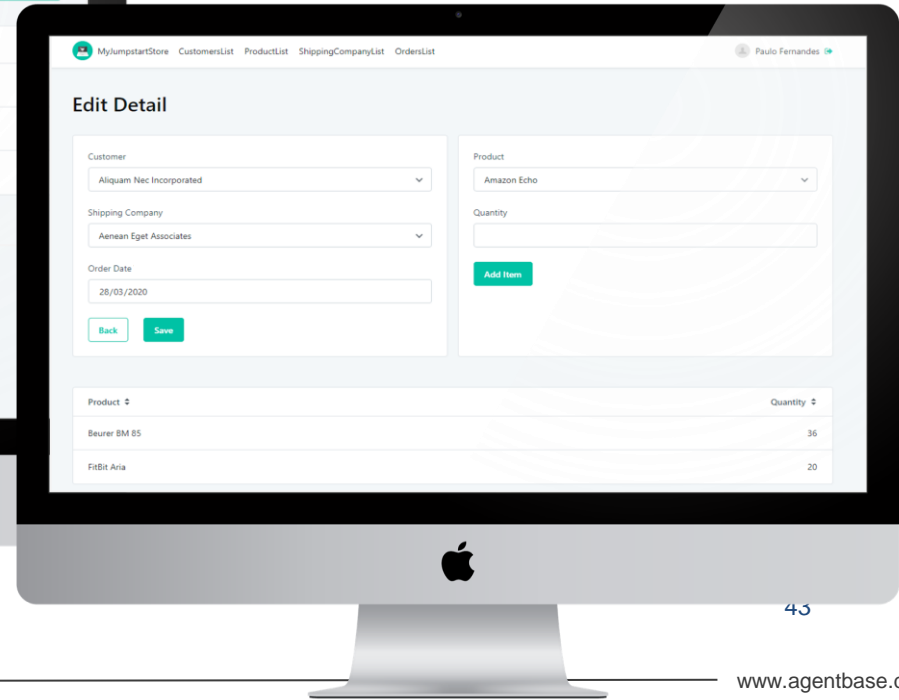
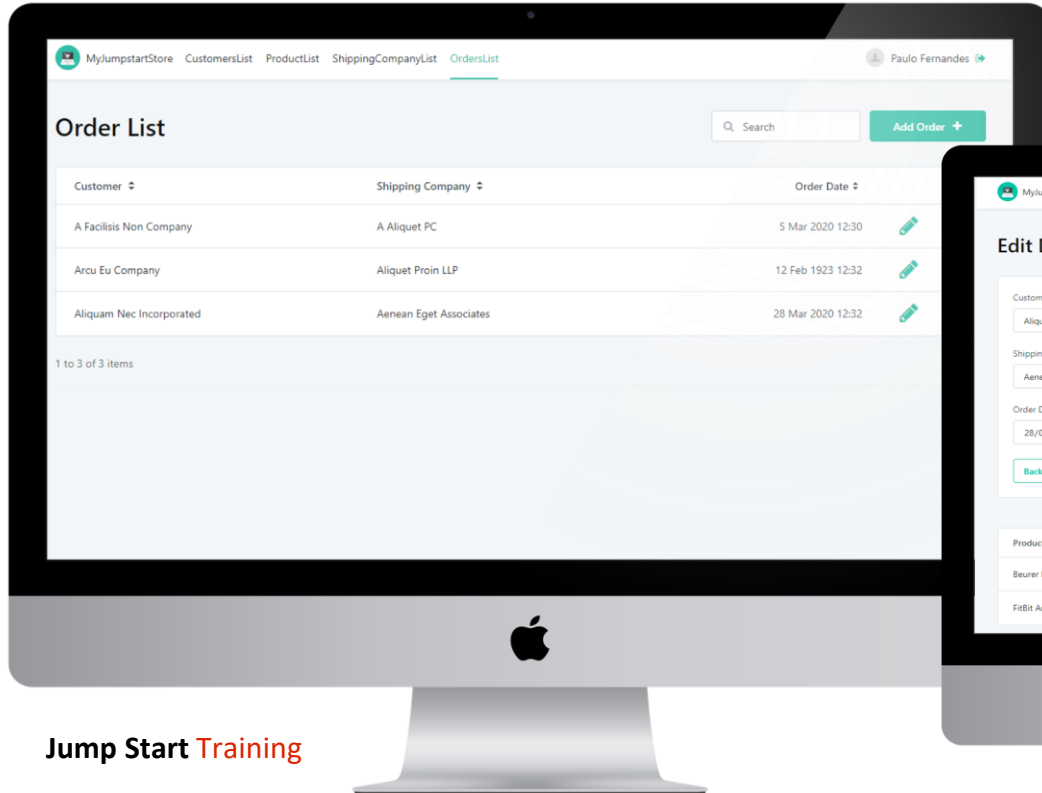
This is how the Order List and Detail Screens look like.



Adapt Order Screens

Final Screens

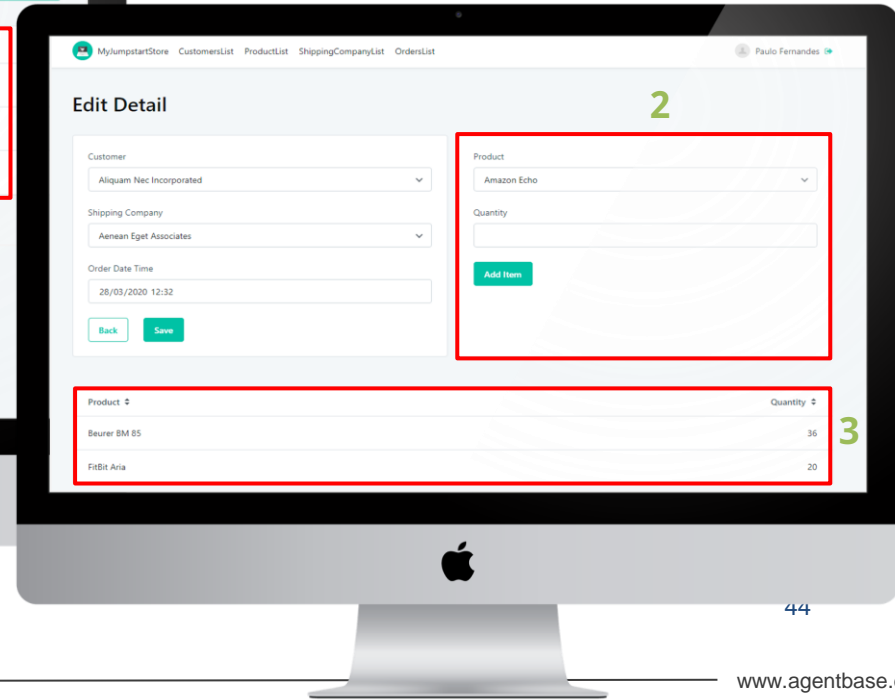
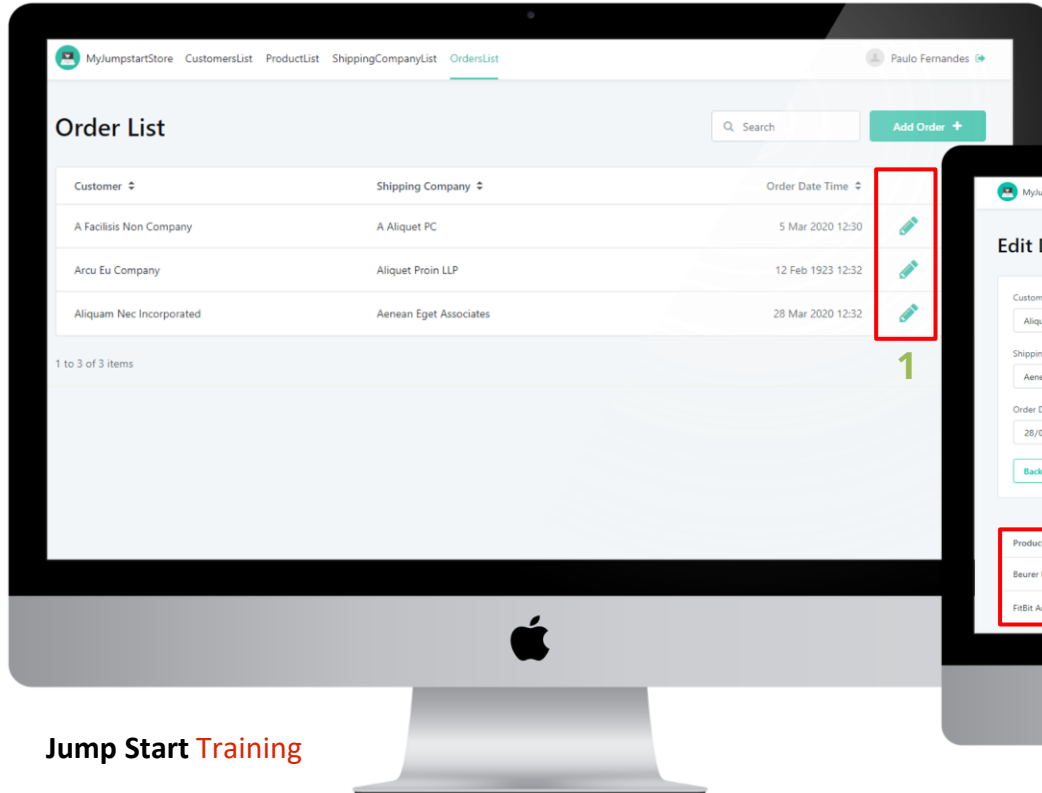
And here is how the same screens will look like in the end of this section.



Adapt Order Screens

Final Screens

Following changes will be added in the next steps.



Jump Start **Training**

Create Logic

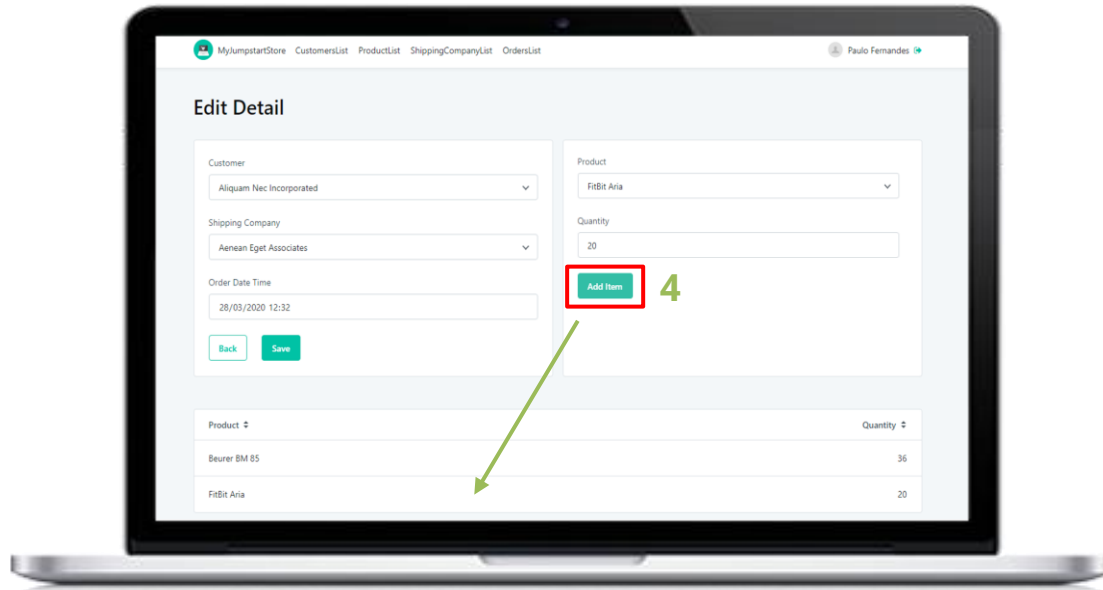
Adding items to existing
Orders



Create Logic

Adding items to existing Orders

- Let's create the missing logic to allow users to add items to existing orders.
- When clicking “Add Item” a new item is added based on the Product and Quantity selected.





Integration

Expose REST API with your products

Products

[API DEFINITION URL: <https://paulo-a-fernandes.outsystemscloud.com/MyJumpstartStore/rest/Products/swagger.json>]

List Operations | Expand Operations

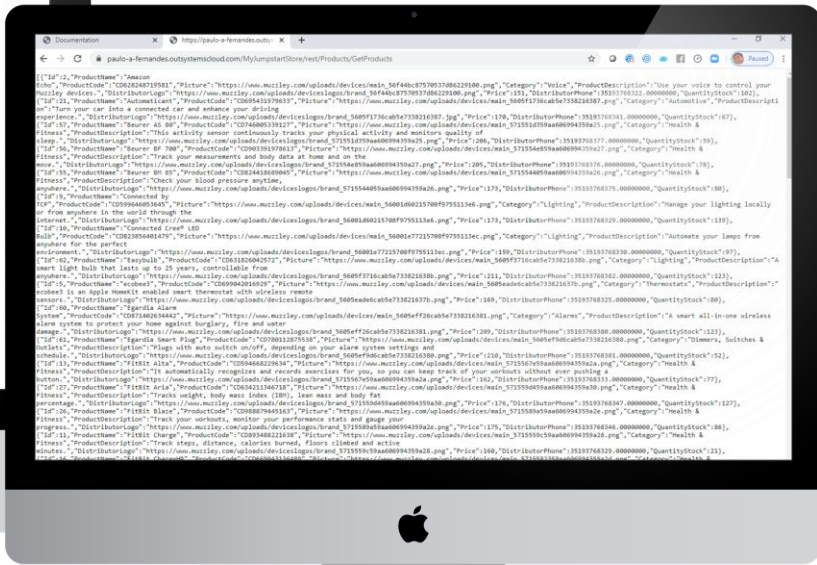
GET /GetProducts

Request URL

<https://paulo-a-fernandes.outsystemscloud.com/MyJumpstartStore/rest/Products/GetProducts>

Response Messages

HTTP Status Code	Description	Content-Type	Data Type (Model Example)
200		application/json	<pre>[{ "Id": 1234567891234567, "ProductName": "string", "ProductCode": "string", "Picture": "string", "Category": "string", "ProductDescription": "string", "DistributorLogo": "string", "Price": 0, "DistributorPhone": 0.1, }]</pre>



A man with a beard and a plaid shirt, wearing a backpack and headphones, is holding a smartphone. The background is blurred, suggesting an indoor setting.

Jump Start **Training**

Jumpstart Mobile Exercise

Build a mobile app in one hour

Download Jump Start Materials

Download all

1. From a browser, navigate to the [Jump Start material repository](#)
2. Download the materials (PDFs + Resources folder)

Jump Start **Training**

Next Steps...

Learn more!



Your Success Program

Our Community is available 24/7 :



[Learn](#)



[Forums](#)

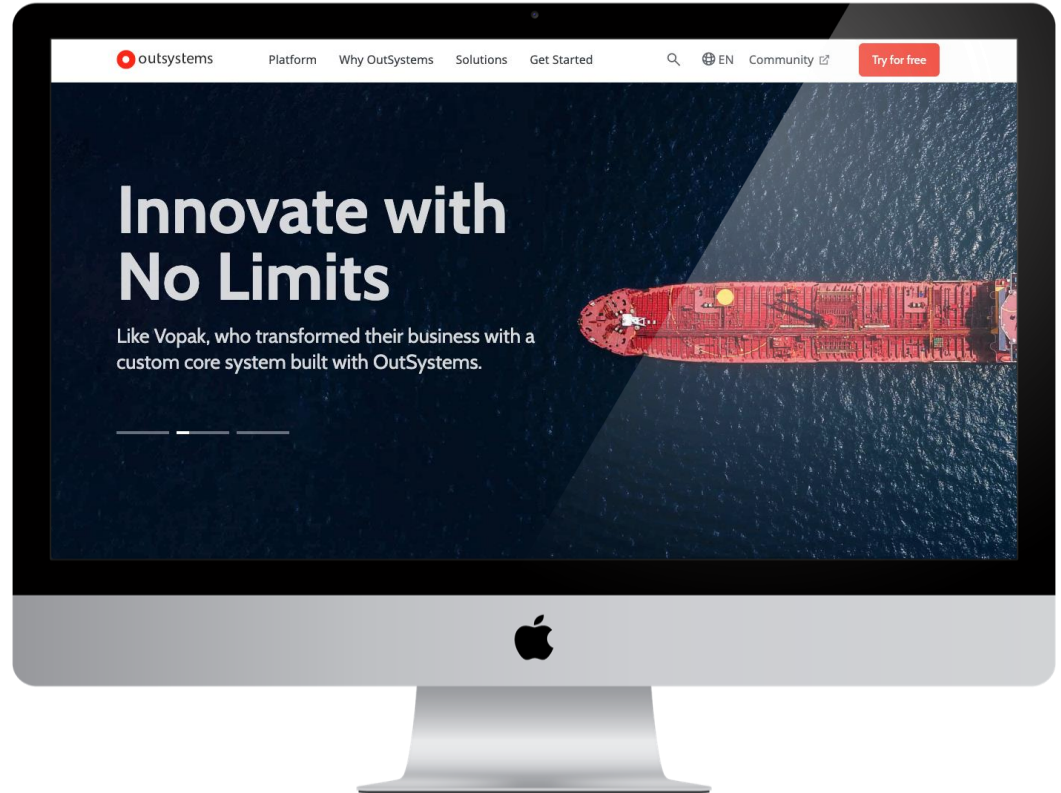


[Knowledge Base](#)



[Forge](#)

Jump Start **Training**



Learn

Training

Welcome to OutSystems University! Learn to build apps. Make new friends. Graduate without any crippling debts!

Learn to Build with OutSystems

Learn OutSystems your way. Follow a path or take a course. View webinars or read docs. And, don't put too much pressure on yourself. Remember, Frodo took three whole movies to get to Mordor, but it was worth it.



Guided Paths

If you're just starting with OutSystems, these guided paths help you learn our IDE and build responsive web and mobile apps with our tools.

Let us be the Dumbledore to your Harry, the Faria to your Dantes, the little floating fairy thing to your Link. You get it.



[Mobile Developer](#)

[Reactive Web Developer](#)

[Traditional Web Developer](#)

[Front-end Developer](#)

[Tech Lead](#)

[Tester](#)

Jump Start **Training**

Forums

outsystems · Community Platform Learn Community Support Partner Center

Community · Forums

Community Forums

Search the Forums SEARCH

RECENT ACTIVITY MOST POPULAR UNANSWERED MY ACTIVITY

Reactive Web: The Next Generation of Web Apps
News and Announcements
143 REPLIES
232
Jorge Martins replied 1 day ago

Contribute to the 2020 Developer Survey Today
News and Announcements
85 REPLIES
104
Thiago Mari replied 6 days ago

Improve your Forge documentation and win prizes
News and Announcements
66 REPLIES
40
Prajakta Roshankhede replied on 7th Jan.

Mini Treinamento OutSystems em Português (Iniciativa Dig...
News and Announcements
62 REPLIES
109
Roger Diogo replied 13 days ago

Progressive Web Apps - Early access now open to everyone
Early Access Features
55 REPLIES
31
Roy van de Kerckhof replied 7 hours ago

check from one entity's screen if another entity's attribute ...
Development questions and troubleshooting
39 REPLIES
23
Eduardo Jauch replied on 2019-08-08

Next Events

Training

- 6 Apr Developing OutSyste...
Remote, Netherlands
- 13 Apr Advanced Developer ...
Lisbon, Portugal
- 14 Apr Mobile for OutSystem...
Remote, Netherlands
- 20 Apr Developing OutSyste...
Remote, Australia
- 20 Apr Developing OutSyste...
Helsinki, Finland

Last Month's Top Posters

- Nuno Miguel Verda... 1st
- Kilian Hekhuls 2nd
- Nordin Ahdi 3rd

Jump Start Training

Knowledge Base

The screenshot shows the OutSystems Knowledge Base page for the 'OutSystems Evaluation Guide'. The page has a dark red header with the OutSystems logo and navigation links: Platform, Why OutSystems, Solutions, Get Started, a search icon, EN, and Community. A 'Try for free' button is in the top right. The main content area has a dark red background with the title 'OutSystems Evaluation Guide' and a sub-headline: 'This condensed guide answers the most common questions asked by teams considering OutSystems.' Below this is a search bar with the placeholder text 'Search for a question or topic...'. On the left, there is a sidebar menu with the following items: Overview (selected), Why OutSystems?, Developing with OutSystems, Lifecycle Management, Getting Started With OutSystems, Architecture, Deploying OutSystems, Mobile, and Integration. The main content area features a section titled 'Why OutSystems?' with a red circular icon. The text reads: 'OutSystems, the #1 platform for low-code rapid application development with advanced capabilities for enterprise mobile and web apps. Explore why it will help you and your company solve your app problems today.' Below this is a 'Featured Articles' section with three links: 'It began with a vision', 'The two major IT pressure points today', and 'How OutSystems solves the problem'. A right-pointing arrow is visible to the right of the main text block.

outsystems Platform Why OutSystems Solutions Get Started Search EN Community Try for free

OutSystems Evaluation Guide

This condensed guide answers the most common questions asked by teams considering OutSystems.

Search for a question or topic...

- Overview
- Why OutSystems?
- Developing with OutSystems
- Lifecycle Management
- Getting Started With OutSystems
- Architecture
- Deploying OutSystems
- Mobile
- Integration

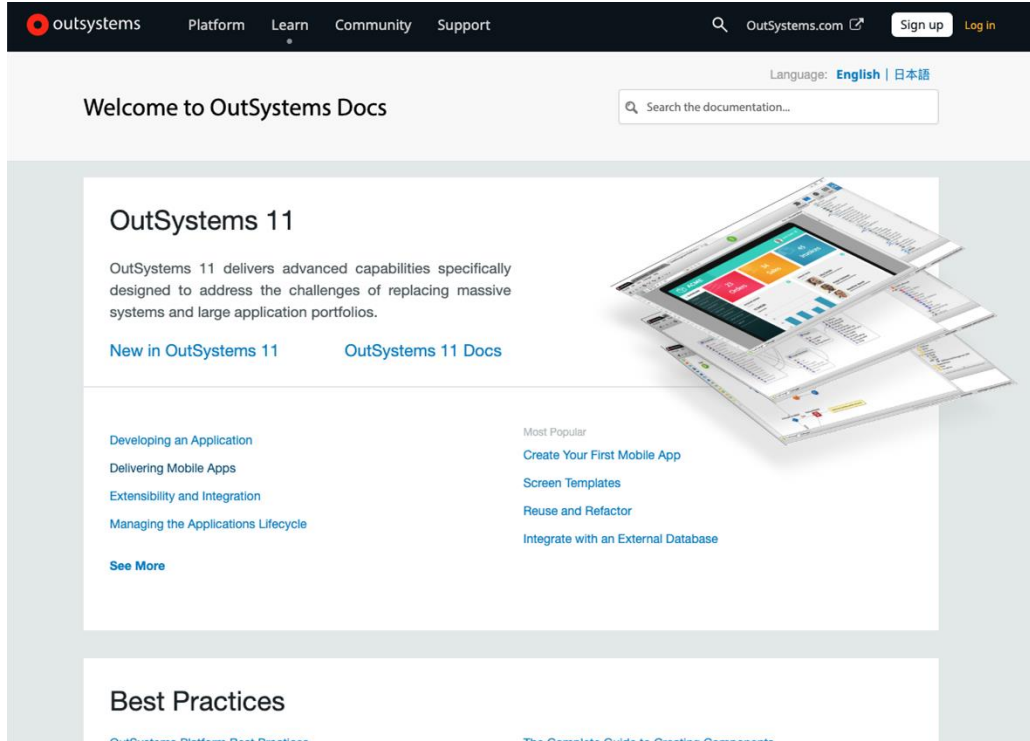
Why OutSystems?

OutSystems, the #1 platform for low-code rapid application development with advanced capabilities for enterprise mobile and web apps. Explore why it will help you and your company solve your app problems today.

Featured Articles:

- [It began with a vision](#)
- [The two major IT pressure points today](#)
- [How OutSystems solves the problem](#)

Lots of articles and how-to's



- Developing with OutSystems
- Lifecycle Management
- Getting Started With OutSystems
- Architecture
- Deploying OutSystems
- Mobile
- Integration
- Security
- Scalability
- Performance

Forge

The screenshot displays the OutSystems Forge website. At the top, a dark navigation bar contains the OutSystems logo, menu items for 'Community', 'Platform', 'Learn', 'Community', and 'Support', a search icon, the URL 'OutSystems.com', and buttons for 'Sign up' and 'Log in'. Below the navigation bar, the page title 'Forge' is prominently displayed, followed by a brief description: 'The OutSystems Forge is a repository of reusable, open code modules, connectors, and UI components to help speed up app delivery time.' Three statistics are shown in white boxes: '3219 Available Apps', '+101 In the last 30 days', and '2775 Downloads in the last 7 days'. A button labeled 'Login to Create New Component' is positioned to the right. A search bar with the placeholder 'Search in Forge...' and a red 'SEARCH' button is located below the statistics. The 'Advanced Search' link is also visible. The main content area features a 'Featured' section with a large card for 'OutSystems.AI Chatbot' by 'OutSystems.AI Team', which has a 5-star rating and 10 reviews. Below this card, a description reads: 'Use OutSystems.AI Chatbot to allow your users to interact with your services via a chat interface.' To the right of the featured card, three smaller component cards are listed: 'OutSystems.AI Chatbot' (5 stars, 10 reviews), 'OutSystems UI' (5 stars, 78 reviews), and 'OutSystems Workato Connector' (5 stars, 1 review). At the bottom, a horizontal menu includes 'All Apps' (underlined), 'Applications', 'Components', 'UI & Widgets', 'Libraries', 'Mobile Plugins', and 'Samples & How-tos'.

So bleiben Sie auf dem Laufenden

- agentbase Low-Code Newsletter abonnieren:
<https://www.agentbase.de/newsletter>
- agentbase Termine im Überblick (Online-Trainings, Boot Camps und weitere Events):
<https://www.agentbase.de/termine>
- Video-Reihe: **Low-Code Talk** „Gespräch auf Augenhöhe“
<https://www.agentbase.de/low-code-talk>
- Video-Reihe: **OutSystems Quick Tipps**
<https://www.agentbase.de/outsystems/outsystems-quick-tips>

Ihr Feedback ist uns wichtig!

Bitte beantworten Sie unseren Feedback-Bogen:

<https://www.agentbase.de/fragebogen-outsistemas-intensivkurs/>

Jump Start **Training**

Q & A



Vielen Dank für Ihre Aufmerksamkeit!



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