



OutSystems Jump Start Workshop



agentbase ag





Artur HabelProkurist,
agentbase AG



IT-Trainer / Junior-Consultant, agentbase AG



Daniel WolfSenior Solutions Architect
OutSystems



Jump Start Training

Agenda

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





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



Wir sind Ihr Full-Service Provider für OutSystems in Deutschland





Wir sind Komplettanbieter





Anforderungs-aufnahme



Spezifikation



Beratung



Umsetzung



Installation / Konfiguration

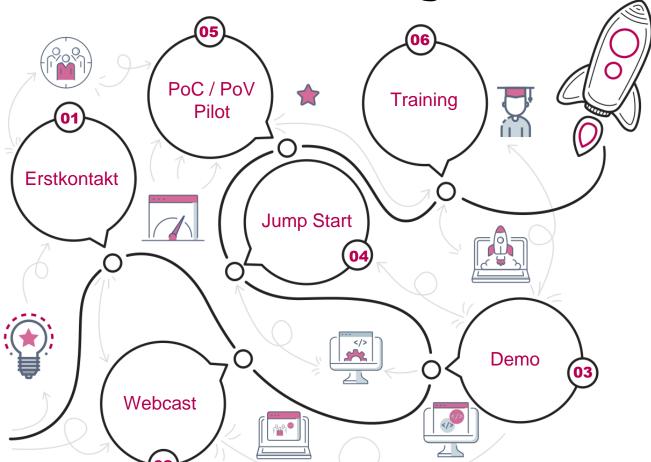






Ihre Schritte zum Erfolg





Aktuelle Termine:

31.07. – 02.08.2023: Schulung: OutSystems Reactive Developer

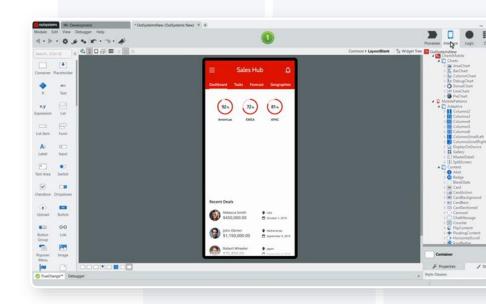
29.08. – 31.08.2023: Schulung: OutSystems Mobile Developer

Anmeldung unter: https://www.agentbase.de/termine

Jump Start Training

Low Code

Develop enterprise-grade applications. Fast.



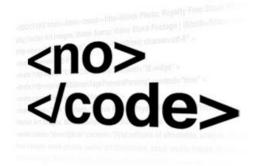
It's all about code

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;
           server = new TcpClient(" . . . ", port);
           Console.WriteLine("Unable to connect to server");
        }catch (SocketException) {
        NetworkStream ns = server.GetStream();
        int recv = ns.Read(data, 0, data.Length);
         StringData = Encoding.
           ASCII. GetString (data, 0, recv);
         Console.WriteLine(stringData);
              input = Console.ReadLine();
              if (input == "exit") break;
                         newchild.Properties["].Add
          while(true) {
```

High-Code







Low-code is about applying automation to software delivery.

OutSystems Product Strategy





modern application platform Global Footprint

70+
Countries

20+
Industries

340+ Global Partners 300K+ Community Members

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OutSystems Customers

Some known companies





































































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



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

High speed delivery



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



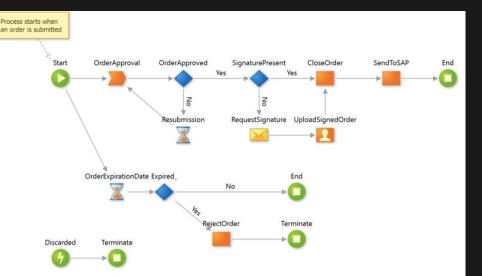
"Faster, more accurate development"



Workflow capabilities

trustradius





- Business Workflows integrated with applications (UI interfaces web and mobile, Logic, datamodel, web services, ...)
- o **Orchestrate** complex logic
- o Build **asynchronous** process
- Scalable and Performant engine
 able to process millions of activities

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Integrate with everything



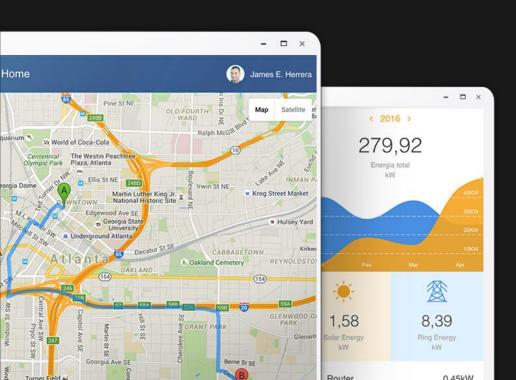
- Pre-built connectors
- SOAP and REST integration without coding
- Connect with popular cloud services
- Orchestrate with workflow & business logic
- Create your own connectors

<u>trustradius</u>

"Flexible and has huge integration capabilities"



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



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

trustradius

"OutSystems Rocks!"



Enterprise-grade operations

- Security
- Scalability
- Performance
- Architecture
- Flexible deployments



""Mobile app dev with OutSystems is truly amazing"





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.







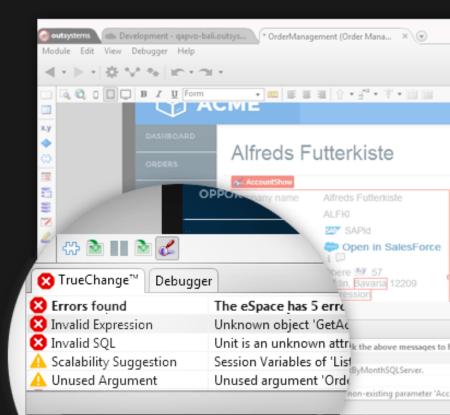
Unbreakable deployment

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



"Development game-changer"





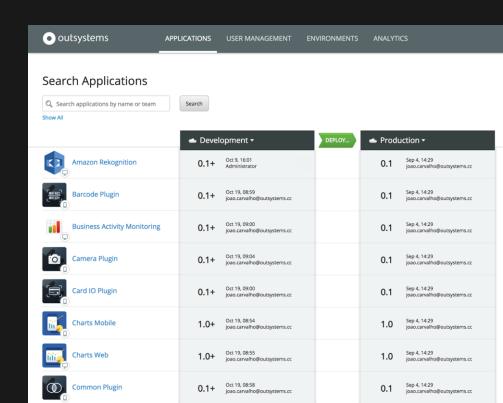
Built-in DevOps solution

- 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"





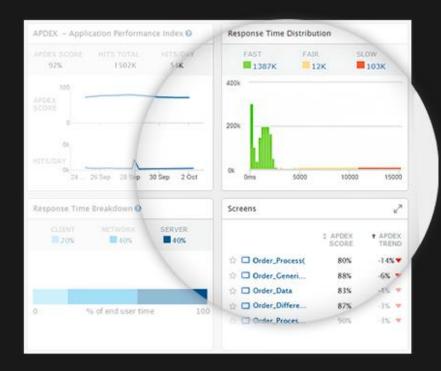
Metrics that matter

- 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"





OUTSYSTEMS PLATFORM OVERVIEW



Empower Developers Extend reach outside IT









Full-Lifecycle

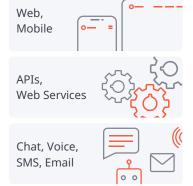
Be agile and continuously change Automated software lifecycle



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

3300+ open-source components

REST, SOAP, OpenAPI

> Cloud Services

Enterprise Systems

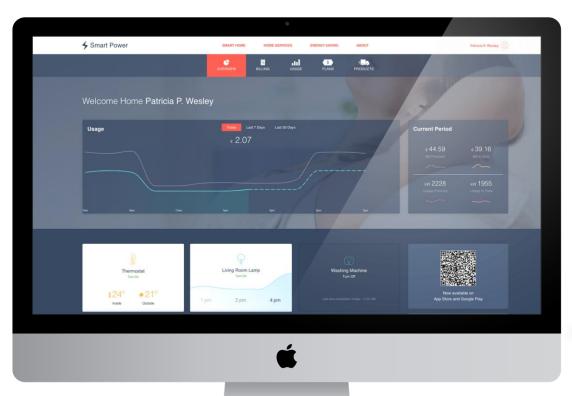
Databases

Scale

Security

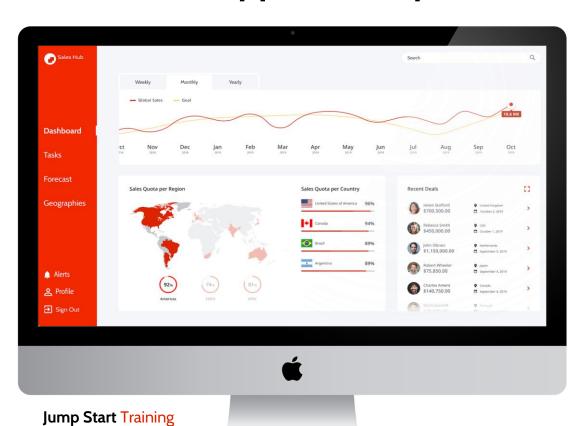
Performance

Flexible Deployment

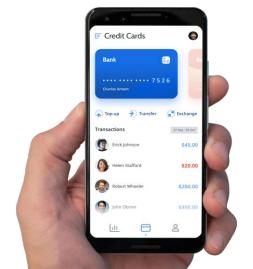


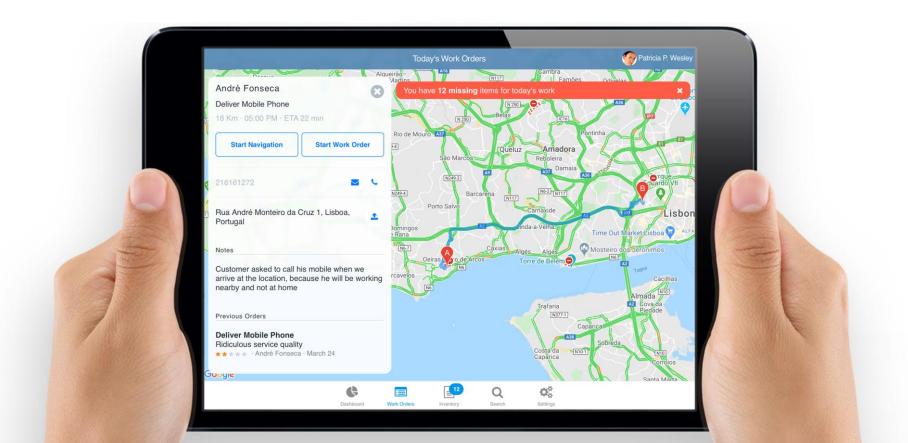


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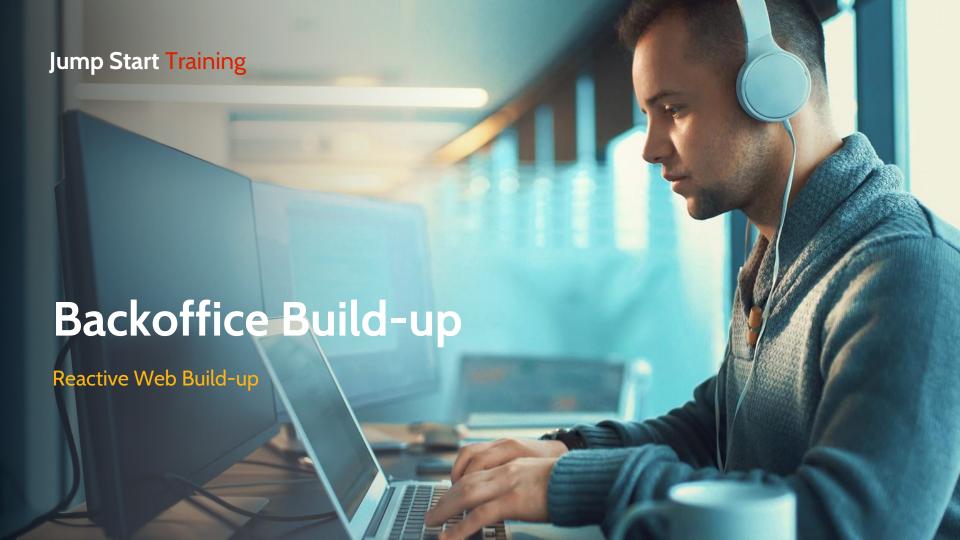












Backoffice

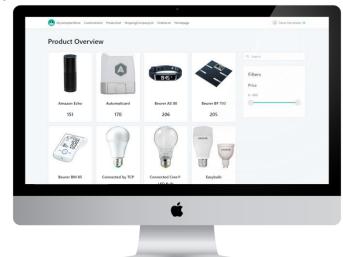
What are we going to build

"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

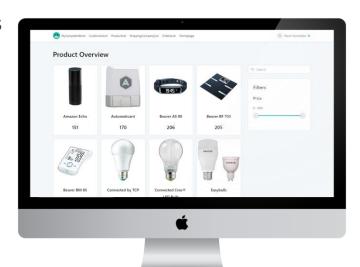


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Backoffice

What are we going to build

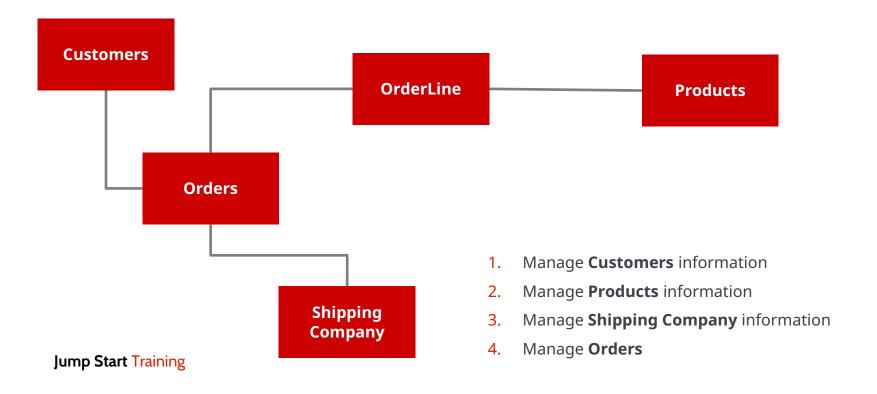
- During the next 20 minutes we will build a Backoffice from scratch. Here is what we will do:
 - 1. Create the data model
 - 2. Create screens to manage data
 - 3. Adapt the Order screens to meet business needs
 - 4. Create Logic to add items to existing orders
 - **5. Expose REST API** with products

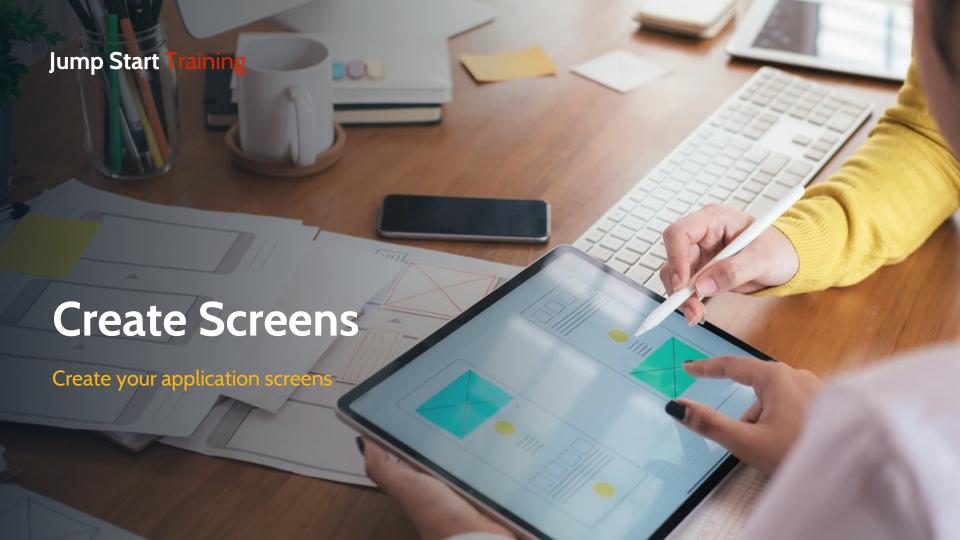


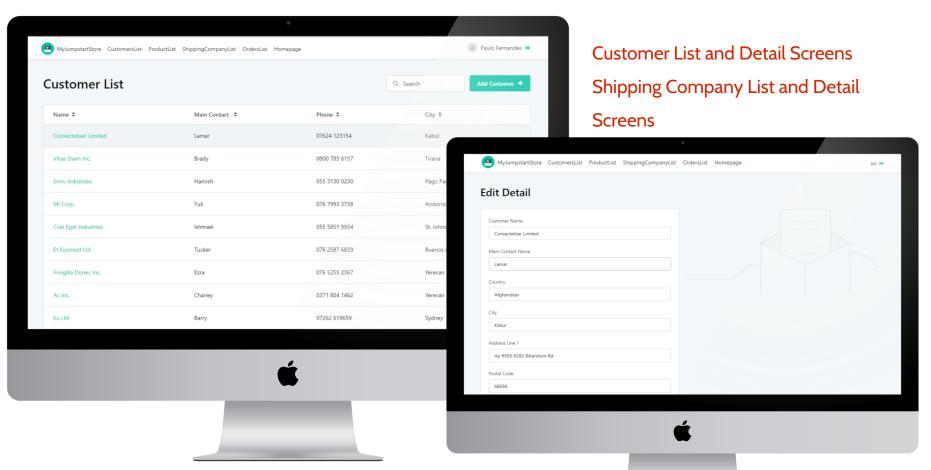


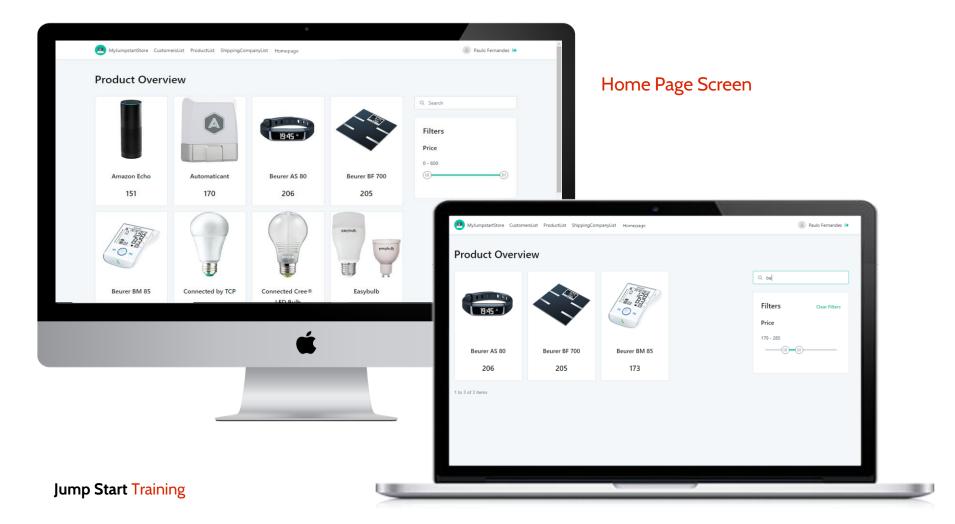
Data Model

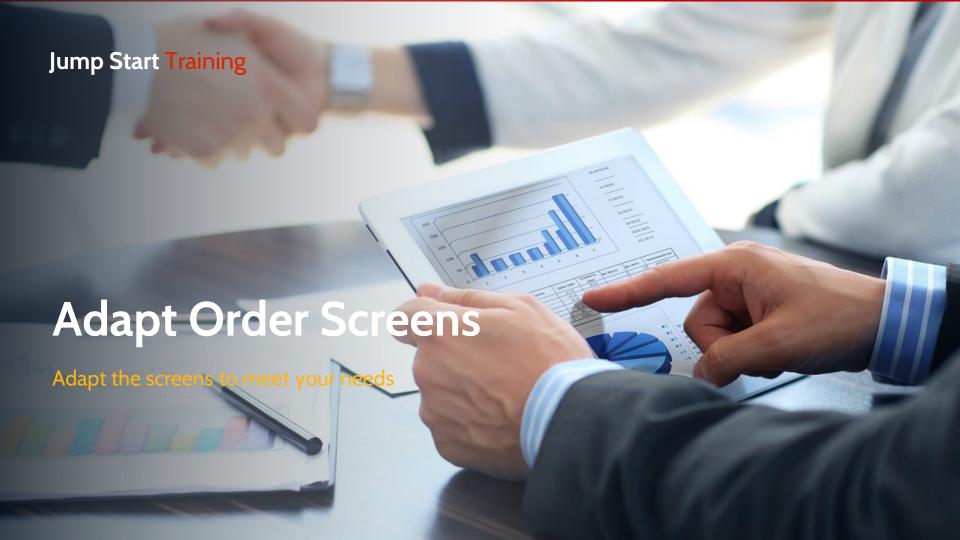
Creating your Application Data Model







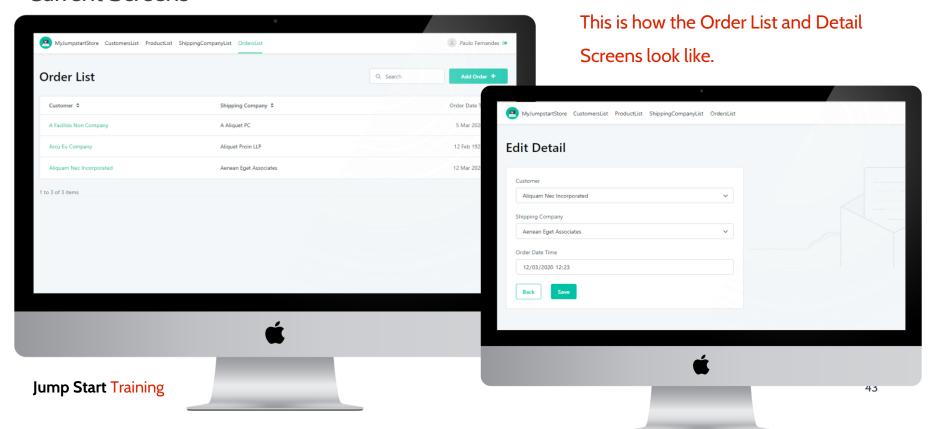




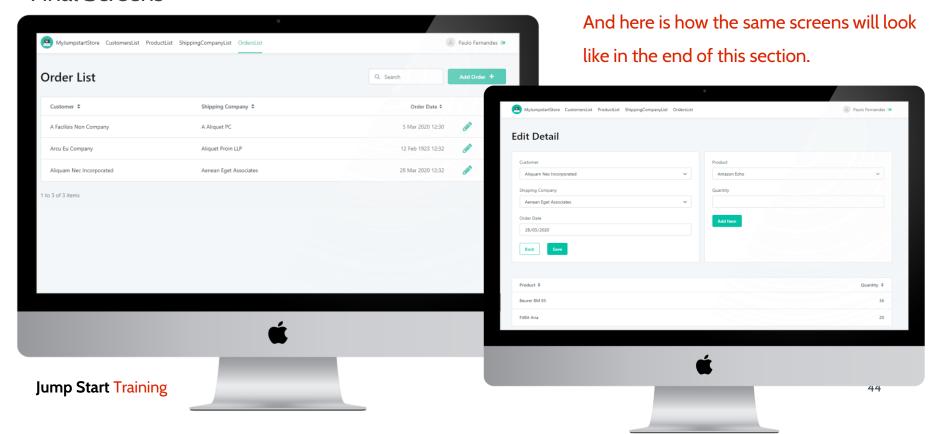
Meet your needs

- 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.

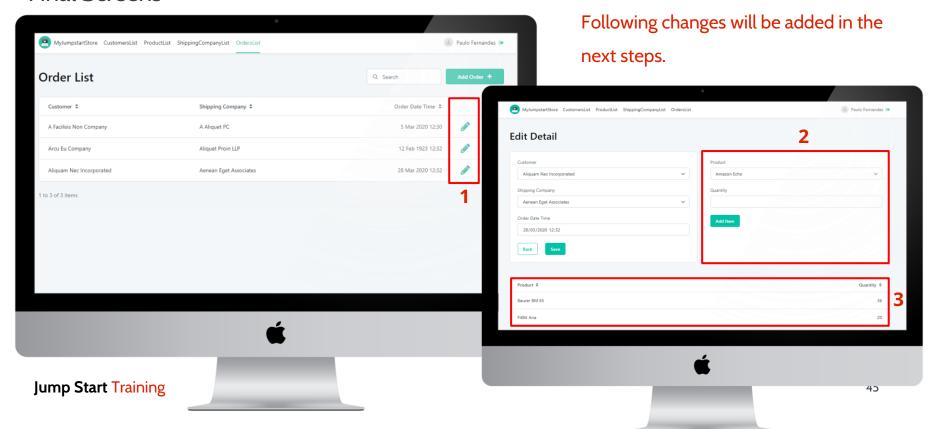
Current Screens



Final Screens



Final Screens

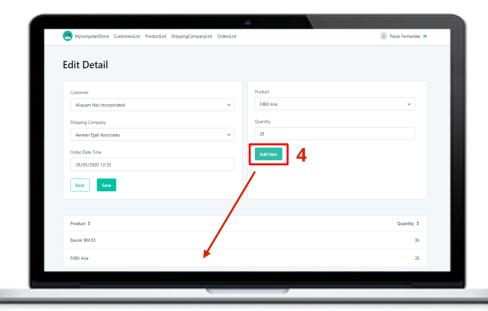




Create Logic

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.



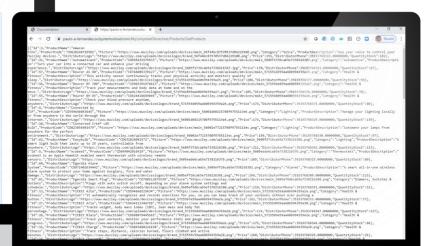


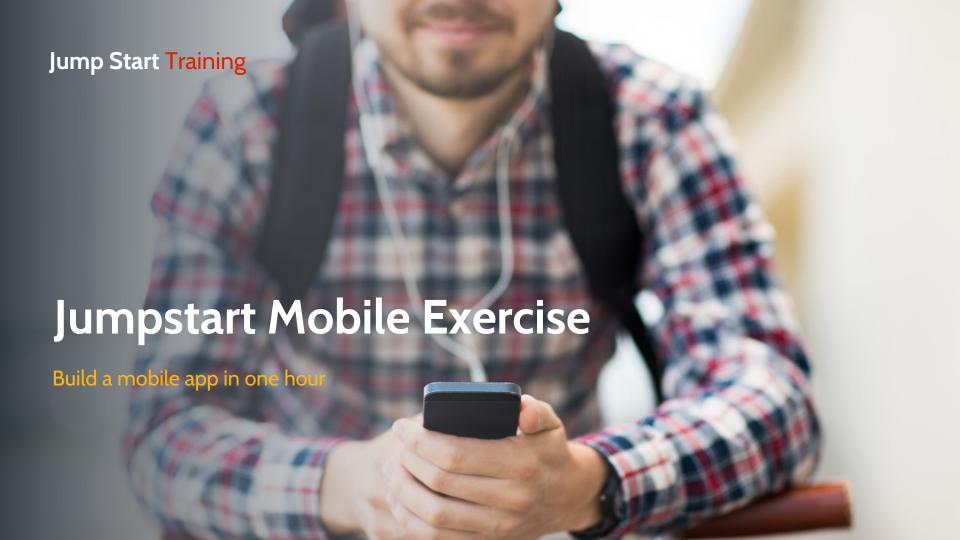
Products

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

/GetProducts Request URL https://paulo-a-fernandes.outsystemscloud.com/MyJumpstartStore/rest/Products/GetProducts Response Messages Description Content-Type Data Type (Model Example) 200 application/json "Id": 1234567891234567, "ProductName": "string", "ProductCode": "string", "Picture": "string", "Category": "string", "ProductDescription": "string", "DistributorLogo": "string", "Price": 0. "DistributorPhone": 0.1,







Download Jump Start Online Materials

Download all

- From a browser, navigate to <u>https://www.agentbase.de/aktionen/materialien-zum-outsystems-intensiv-workshop/</u>
- If not completed beforehand: setup your environment





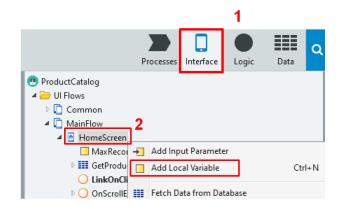
Download the materials
 (PDFs + Resources folder)



Hints / Errata

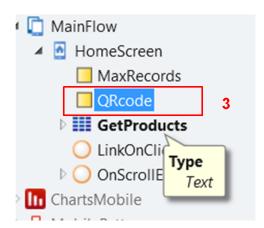
Section 5 B 7. Add Local Variable

QRCode Variable



We need to store the QR code scan results into a variable, so that we could use the variable to filter the list results.

- 1. To add local variables, Click on the Interface tab
- right click the HomeScreen screen > Add Local
 Variable
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3. Name the variable as **QRcode**. Make sure its Data Type is **Text**.

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Next Steps...

Learn more!



Your Success Program

Our Community is available 24/7:



<u>Learn</u>



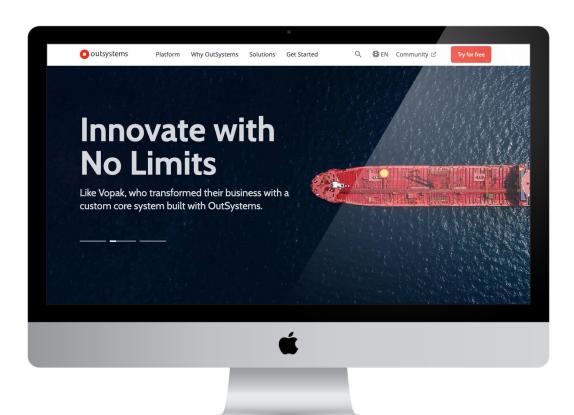
Forums



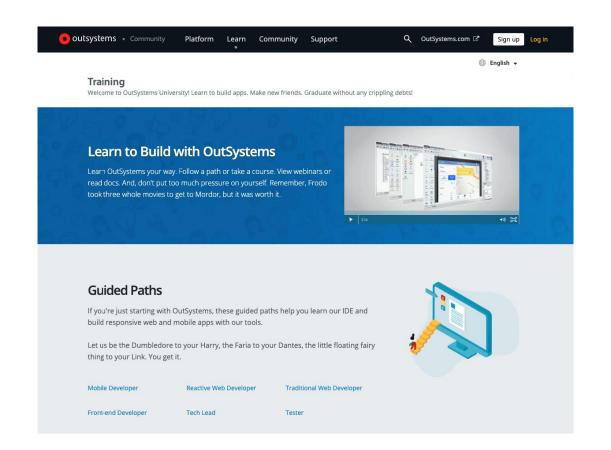
Knowledge Base



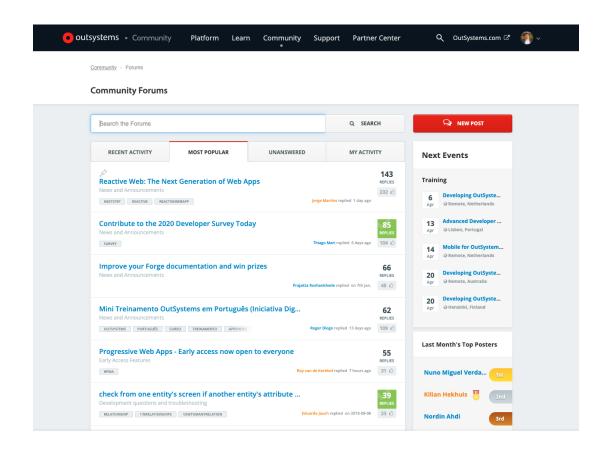
Forge



Learn



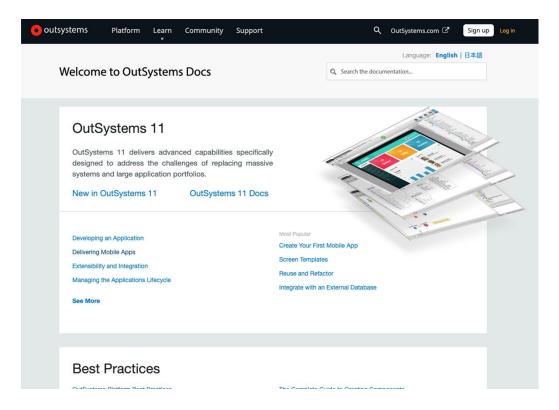
Forums



Knowledge Base

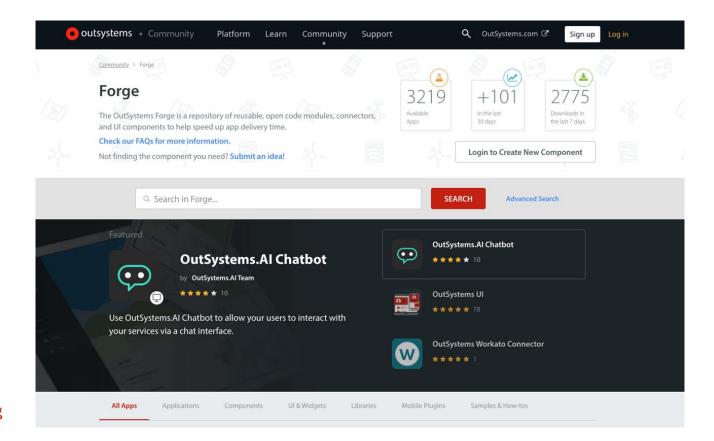


Lots of articles and how-to's



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

Forge



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-outsystems-intensivkurs/



Vielen Dank für Ihre Aufmerksamkeit!



agentbase AG Eggertstr. 7 33100 Paderborn +49 5251 547 2600 +49 5251 547 2699 info@agentbase.de

www.agentbase.de