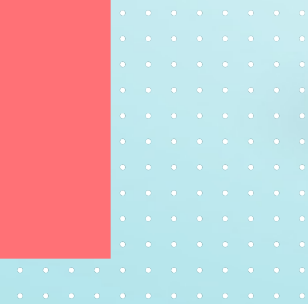




OUTSYSTEMS @ DALU 2024



= Ideas and interaction





**WHAT DO YOU WANT TO
LEARN TODAY?**

Erik Wilbrink

Solution Architect OutSystems

4 years + experience

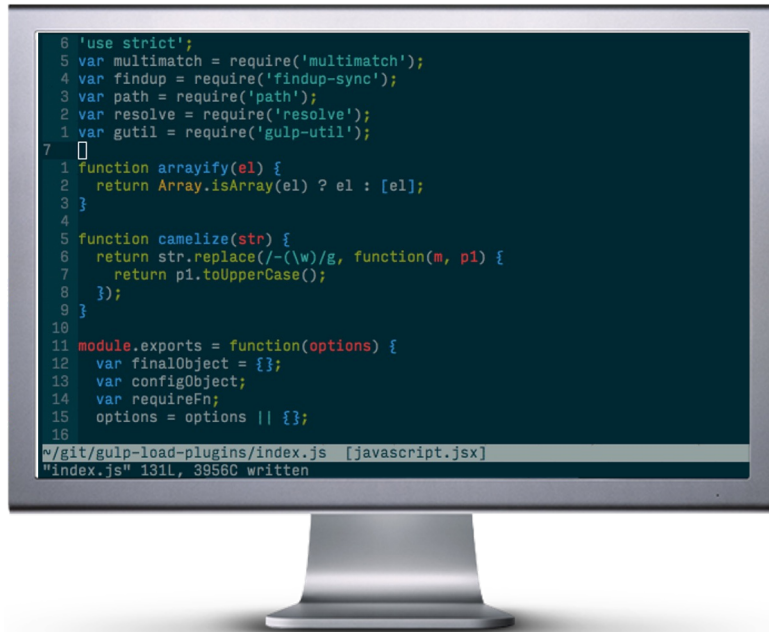


WHAT CAN YOU EXPECT TODAY

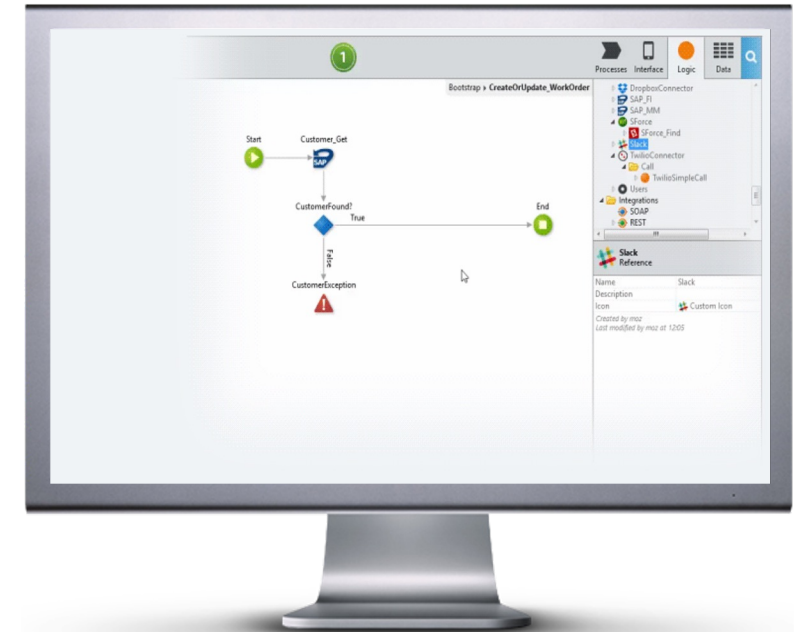
- ✓ Lowcode explained
- ✓ OutSystems explained
- ✓ Demo
- ✓ Questions

Primarily, we focus on the tool and the technical capabilities.

IT'S ALL ABOUT CODE



High-Code



Low-Code
with
Outsystems





Build it Fast

6-10x

faster **Time to Market**



3-10x

more throughput
Productivity



Build it Good

40-60%

Build costs savings



4x

More **reusability**



Build it for the Future

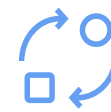
20-40%

Run costs savings



50-75%

less **Refactoring
& Rework**



USE CASES FOR OUTSYSTEMS

Customer Experience Transformation

Mobile Banking

Tax Refund Portal

Citizen Portal

Workspace Innovation

Employee services

Service Desk

Process Optimization

Employee onboarding

Order Management

Field Service

App Modernization

ERP

CRM

Supply & Logistic

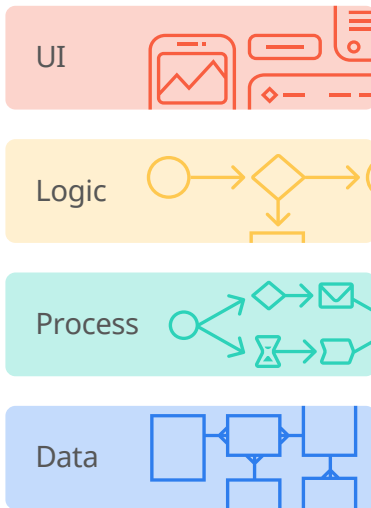


**WHAT USE CASES DO
YOU RECOGNIZE FOR
YOUR ORGANIZATION?**

OUTSYSTEMS PLATFORM OVERVIEW

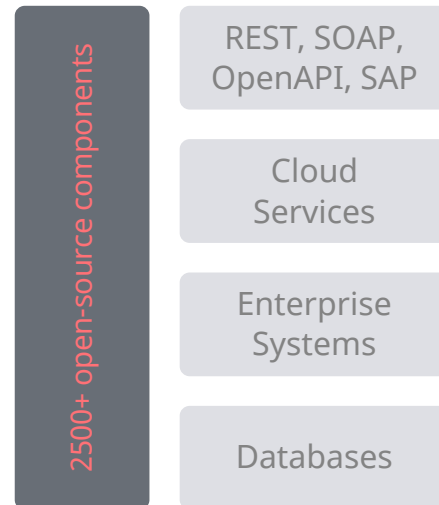
Full-Stack

Empower Developers



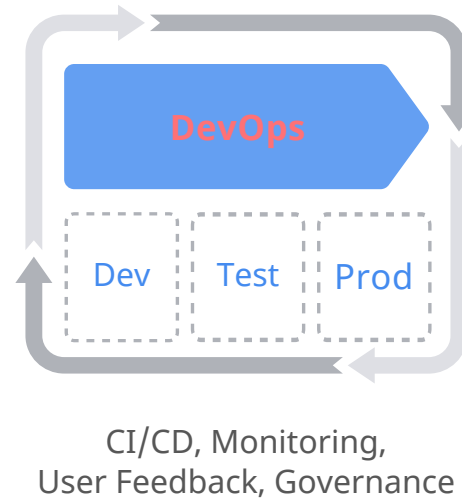
Integrate & Extend

Never start from scratch
Limitless and easy integration



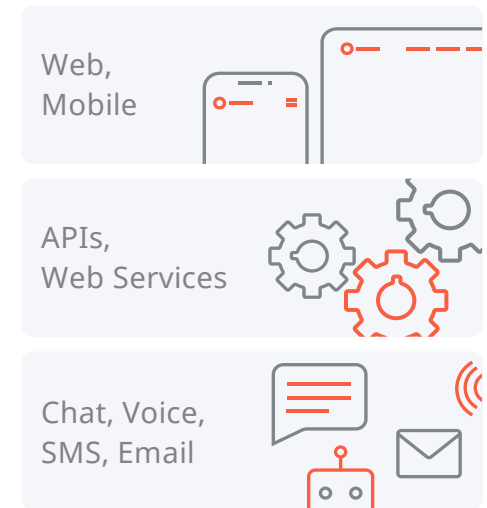
Full-Lifecycle

Be agile and continuously change
Automated software lifecycle



Experiences

Reach all touchpoints
Widest range of digital experiences



Scale

Security

Performance

Flexible Deployment

OUTSYSTEMS PLATFORM OVERVIEW

Full-Stack

Empower Developers

UI



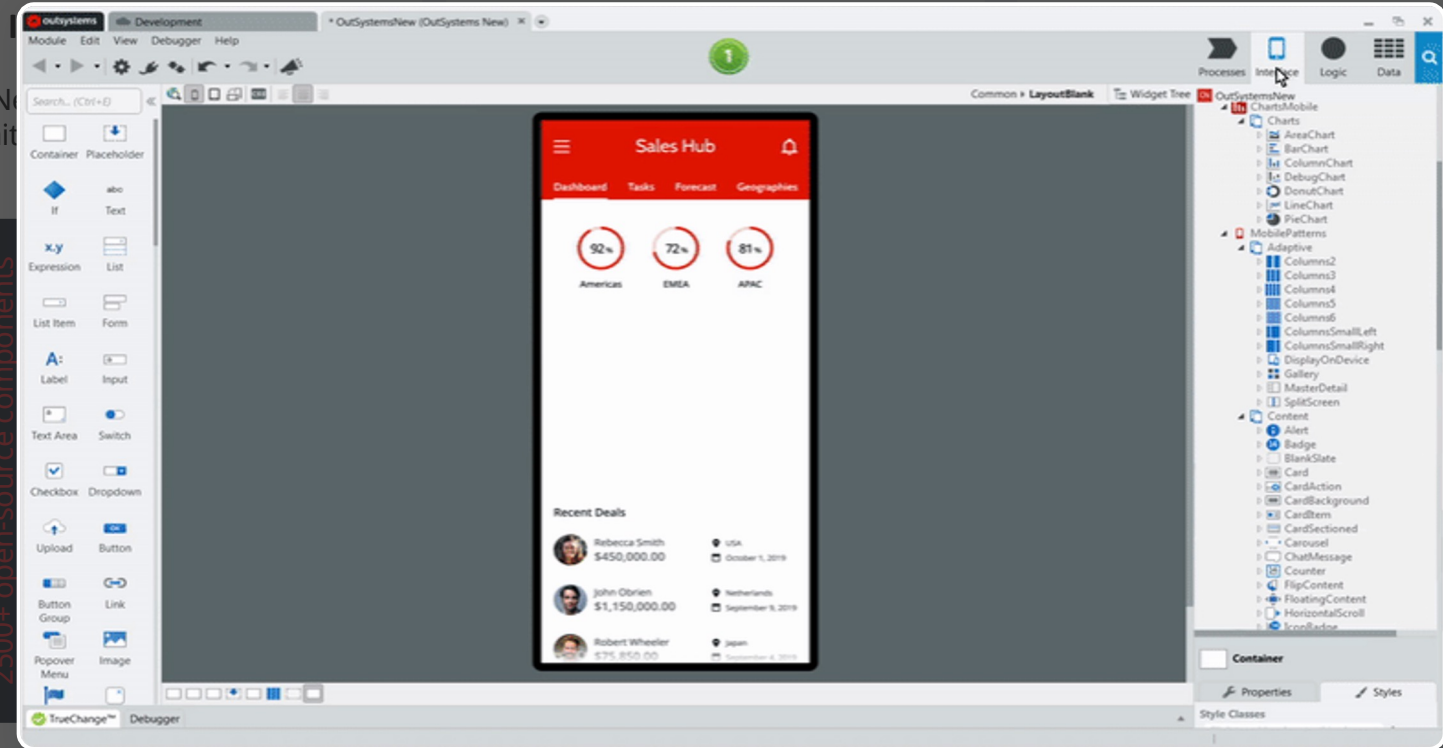
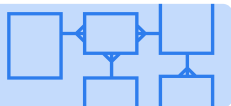
Logic



Process



Data



Scale

Security

Performance

Flexible Deployment

OUTSYSTEMS PLATFORM OVERVIEW

Full-Stack

Empower Developers

UI



Logic



Process



Data



Integrate & Extend

Never start from scratch
Limitless and easy integration

2500+ open-source components

REST, SOAP,
OpenAPI, SAP

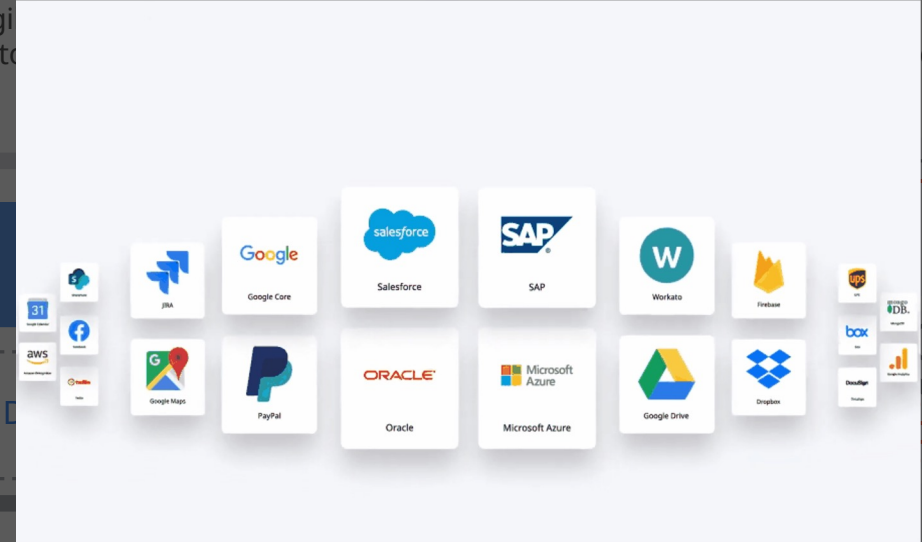
Cloud
Services

Enterprise
Systems

Databases

Full-Lifecycle

Be agile
Automate



CI/CD, Monitoring,
User Feedback, Governance

Experiences

Chat, voice,
SMS, Email

Scale

Security

Performance

Flexible Deployment

OUTSYSTEMS PLATFORM OVERVIEW

Full-Stack

Empower Developers

UI



Logic



Process



Data



Integrate & Extend

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2500+ open-source components

REST, SOAP,
OpenAPI, SAP

Cloud
Services

Enterprise
Systems

Databases

Search in Forge... **SEARCH**

Sort by: **Most Popular**

MY ACTIVITY

- ☐ Downloaded
- ☐ Following
- ☐ My Components

TYPE

- ☐ All
- ☐ Traditional Web
- ☒ Mobile
- ☐ Reactive
- ☐ Service

CURATION

- ☐ Trusted
- ☐ OutSystems Supported

CATEGORY

- ☐ Applications
- ☐ Components
- ☐ Connectors
- ☐ Cloud Storage
- ☐ Collaboration
- ☐ CRM

3353 results

- Silk UI Web**
A fully responsive and beautiful UI framework that works within the OutSystems Platform. Build
★★★★★ 102
38727
- OutSystems UI**
Create amazing applications using this fully integrated UI framework for OutSystems, with dozens of UI
★★★★★ 85
27727
- Dublin Template**
A fully-responsive Silk UI Theme with a prominent left menu and a gorgeous look&feel. Dublin can
★★★★★ 50
26617
- OutSystems UI Web**
Create amazing web responsive applications using this fully integrated UI framework for
★★★★★ 56
20330
- Common Plugin**
Common actions and webblocks to be used by OutSystems Now extensions plugins.
★★★★★ 23
20293
- OutSystems Now**
OutSystems Now brings your OutSystems experience to any device.
★★★★★ 78
18089
- Google Maps**
Google Maps is a Google Maps Javascript V3 API component, providing Web Blocks and Actions
★★★★★ 1
1
- OutSystems UI Web Screen Templates**
Accelerate Responsive Web application development with our easy-to-use screen templates.
★★★★★ 1
1
- OutSystems Sample Data**
Sample data to accelerate application prototyping and development. Contains a data
★★★★★ 1
1

Scale

Security

Performance

Flexible Deployment

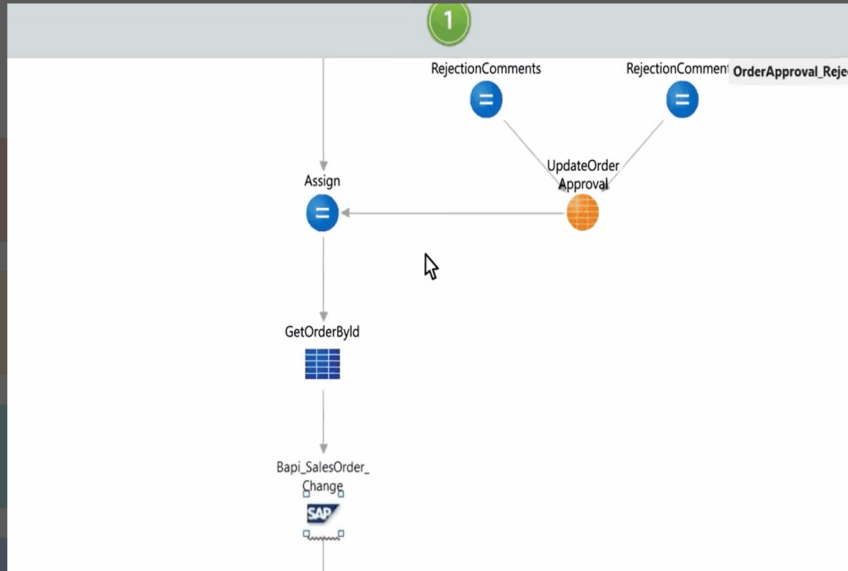
OUTSYSTEMS PLATFORM OVERVIEW

Full-Stack

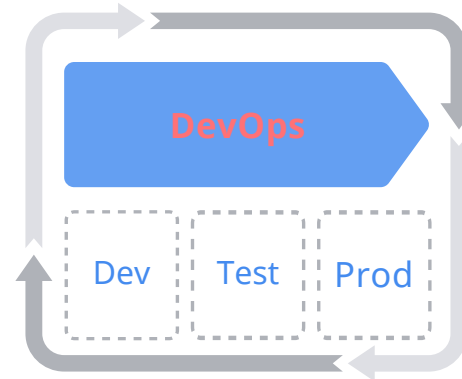
Integrate & Extend

Full-Lifecycle

Experiences



Be agile and continuously change
Automated software lifecycle



CI/CD, Monitoring,
User Feedback, Governance

Reach all touchpoints
Widest range of digital experiences

Web,
Mobile

APIs,
Web Services

Chat, Voice,
SMS, Email

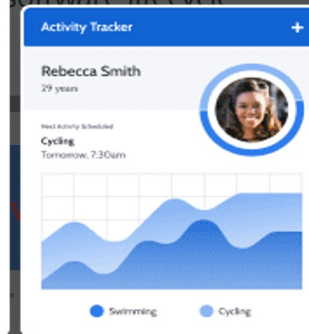
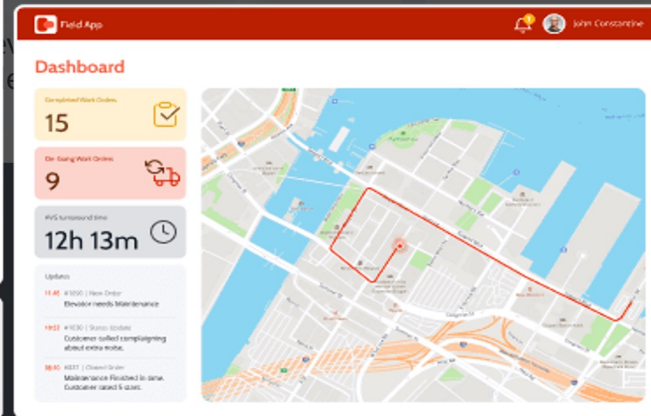
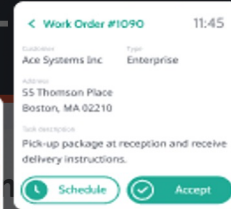
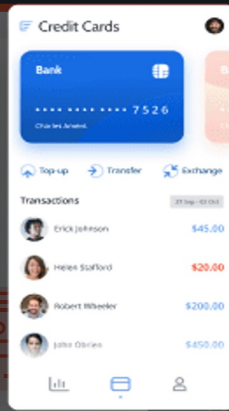
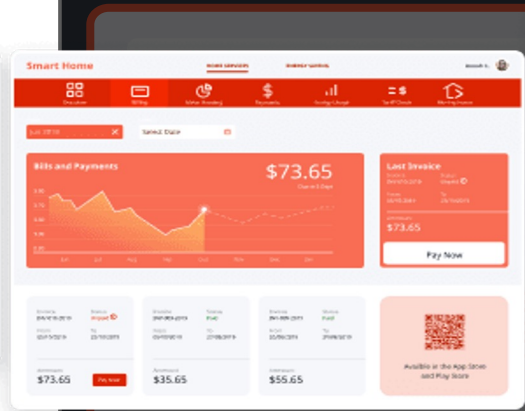
Scale

Security

Performance

Flexible Deployment

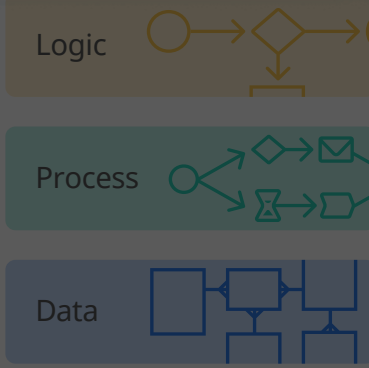
OUT PLATFORM OVERVIEW



Experiences

Reach all touchpoints
Widest range of digital experiences

- Web, Mobile
- APIs, Web Services
- Chat, Voice, SMS, Email



2500+ open-source

Enterprise Systems
Databases



CI/CD, Monitoring,
User Feedback, Governance

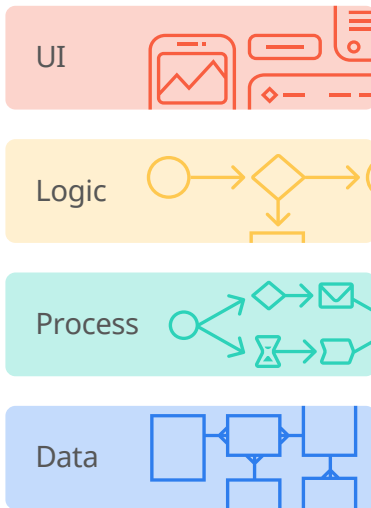
Scale Security Performance Flexible Deployment



OUTSYSTEMS PLATFORM OVERVIEW

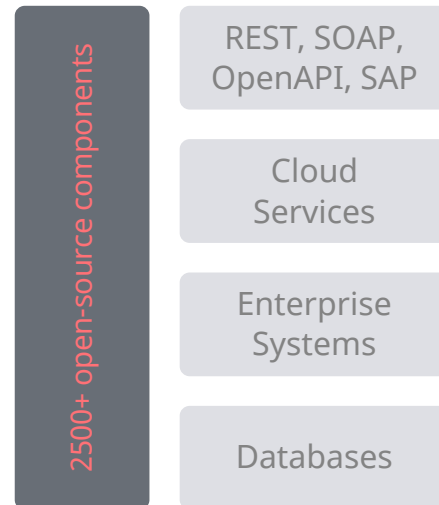
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Empower Developers



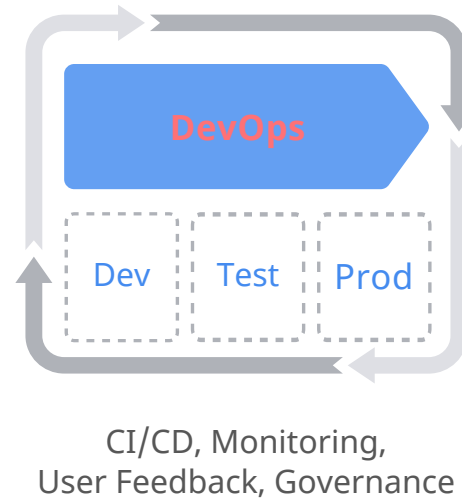
Integrate & Extend

Never start from scratch
Limitless and easy integration



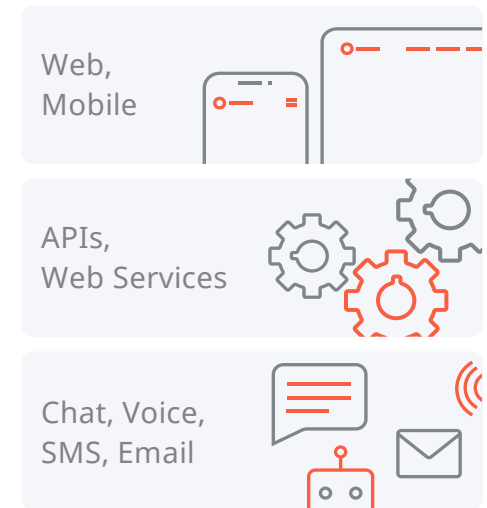
Full-Lifecycle

Be agile and continuously change
Automated software lifecycle



Experiences

Reach all touchpoints
Widest range of digital experiences



Scale

Security

Performance

Flexible Deployment

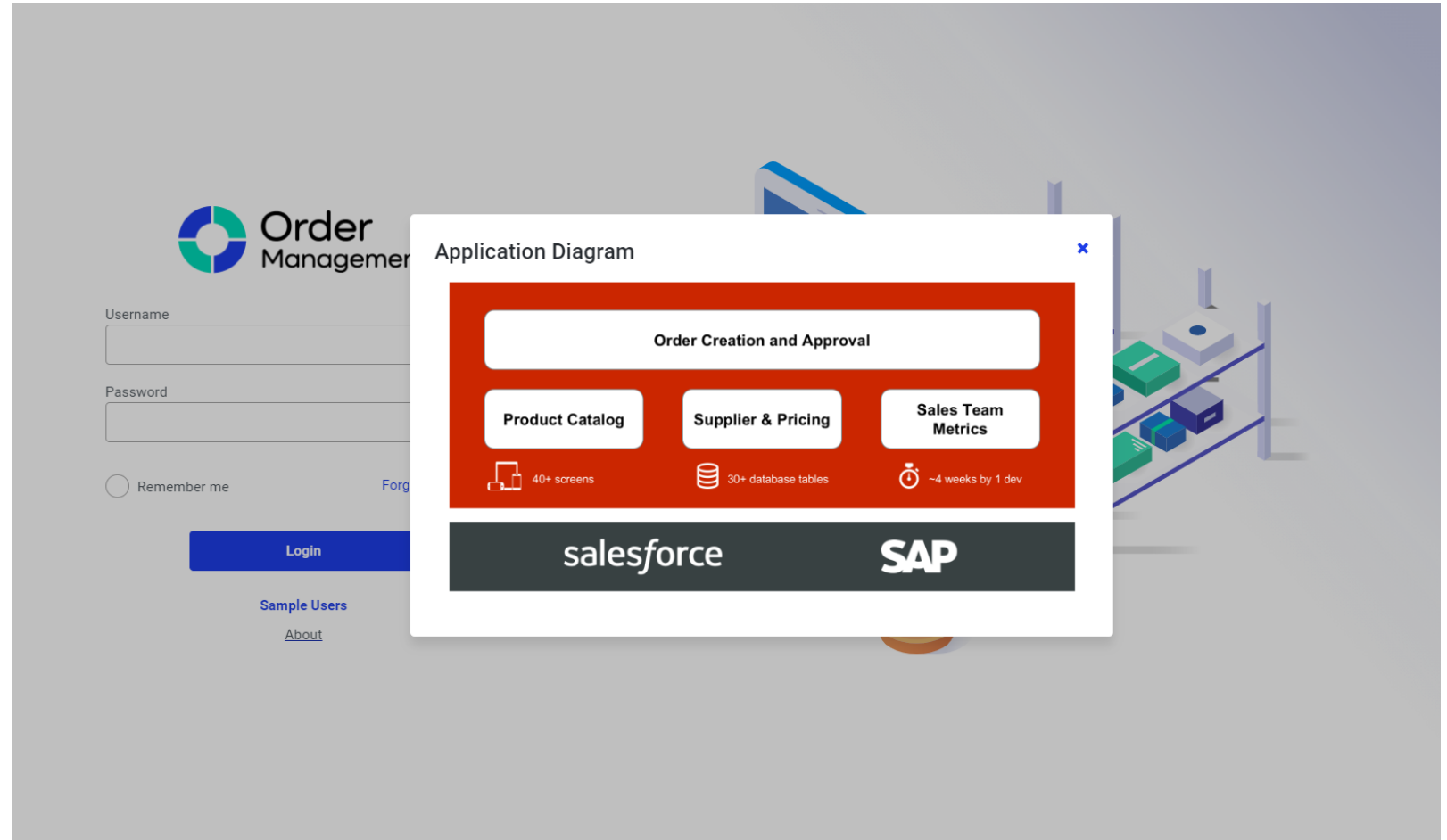


**WHAT DO YOU WANT
TO SEE DURING THE
DEMO?**

USE CASE | ORDER MANAGEMENT

What can I find in the demo?

- Demo of an example application
- Live development in OutSystems





QUESTIONS



EMAIL ME OR CHECK THE BOOT FOR MORE INFO 😊

ERIK.WILBRINK@ROCKFEATHER.COM



EVEN VOORSTELLEN



Wie ben je?



Wat vind je leuk om te doen / waar wordt je **echt** enthousiast van?



Waarom ben je hier vandaag?



Wat zijn je verwachtingen voor vandaag / wat wil je bereiken?

WAT NEEM JE MEE NAAR HUIS?



Je **weet** wat lowcode is en hoe het verschilt van development.



Je **kent** de voordelen van lowcode en het gebruik van OutSystems.



Je **weet** hoe je de kracht van OutSystems optimaal kunt inzetten.

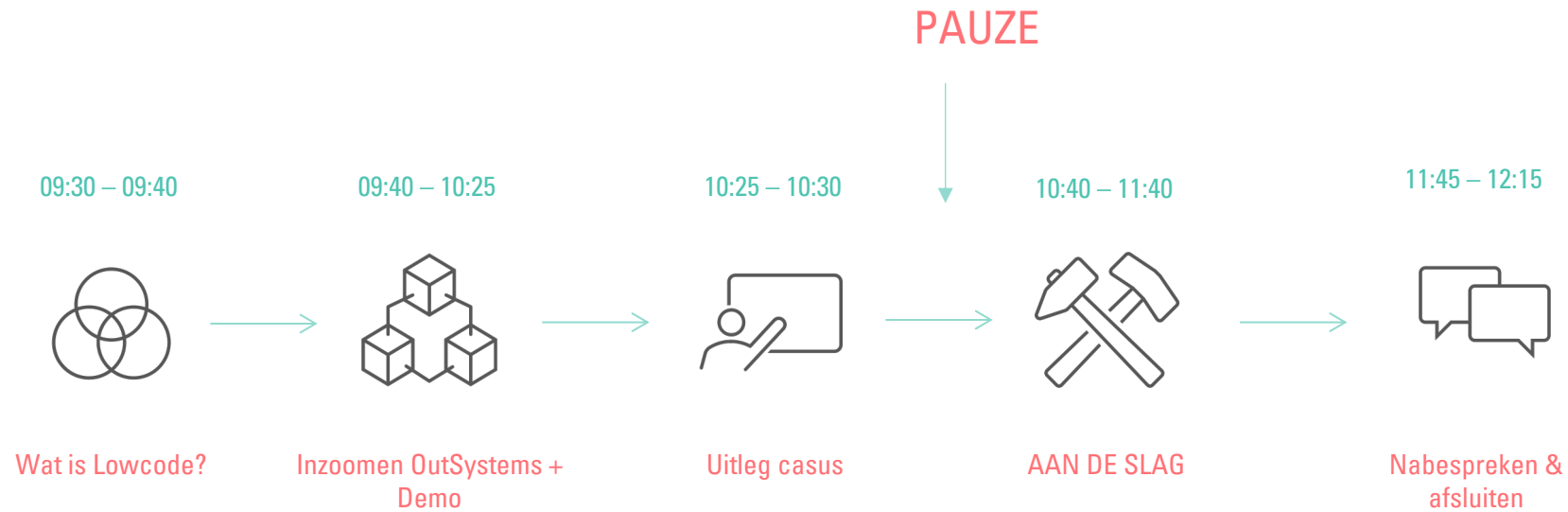


Enthousiasme om meer over het OutSystems te weten te komen zodat je er mee **aan de slag** kunt gaan!

Stel je vragen en opmerkingen gewoon tussendoor!



HOE GAAN WE HET DOEN?





INZOOMEN OUTSYSTEMS

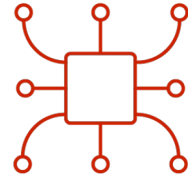
09:40 – 10:25



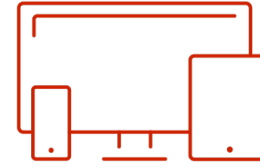
WAT MAAKT OUTSYSTEMS NU ZO GOED?



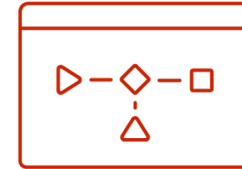
1. Razendsnel



2. Integreert met
alles



3. Direct al
geweldige UX



4. Low-code zonder
beperkingen



5. Ingebouwde
beveiliging



6. Schaalbaarheid



7. Foutloze
deployments



8. Meet wat er toe
doet



DEMO



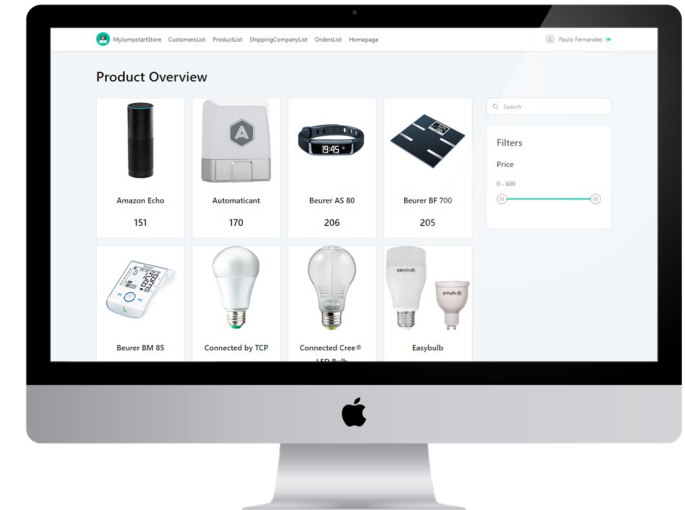
DEMO CASUS

“Bedrijf ACME Goods is een logistieke retailer die zijn producten koopt van de leveranciers en dan direct doorverkoopt aan winkels. ”

“ACME Goods is op zoek naar een app om het huidige klantbestand, de inventaris en de relaties met huidige partners te managen.”

Belangrijkste behoeften

- Manage Klant informatie
- Manage Product informatie
- Manage logistieke informatie
- Manage orders

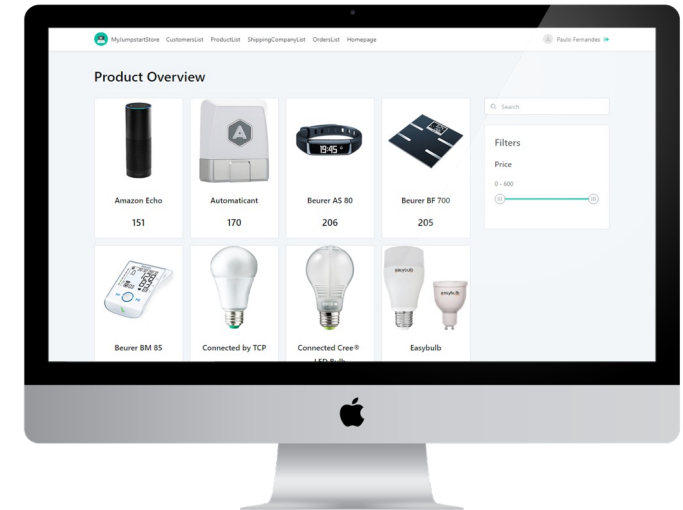


WAT GAAN WE BOUWEN?



20 min

1. Datamodel ontwikkelen
2. Schermen ontwikkelen
3. Pas het 'order scherm' aan zodat het aan de business requirements voldoet
4. Ontwikkel logica om items aan orders toe te voegen
5. Expose REST API met producten

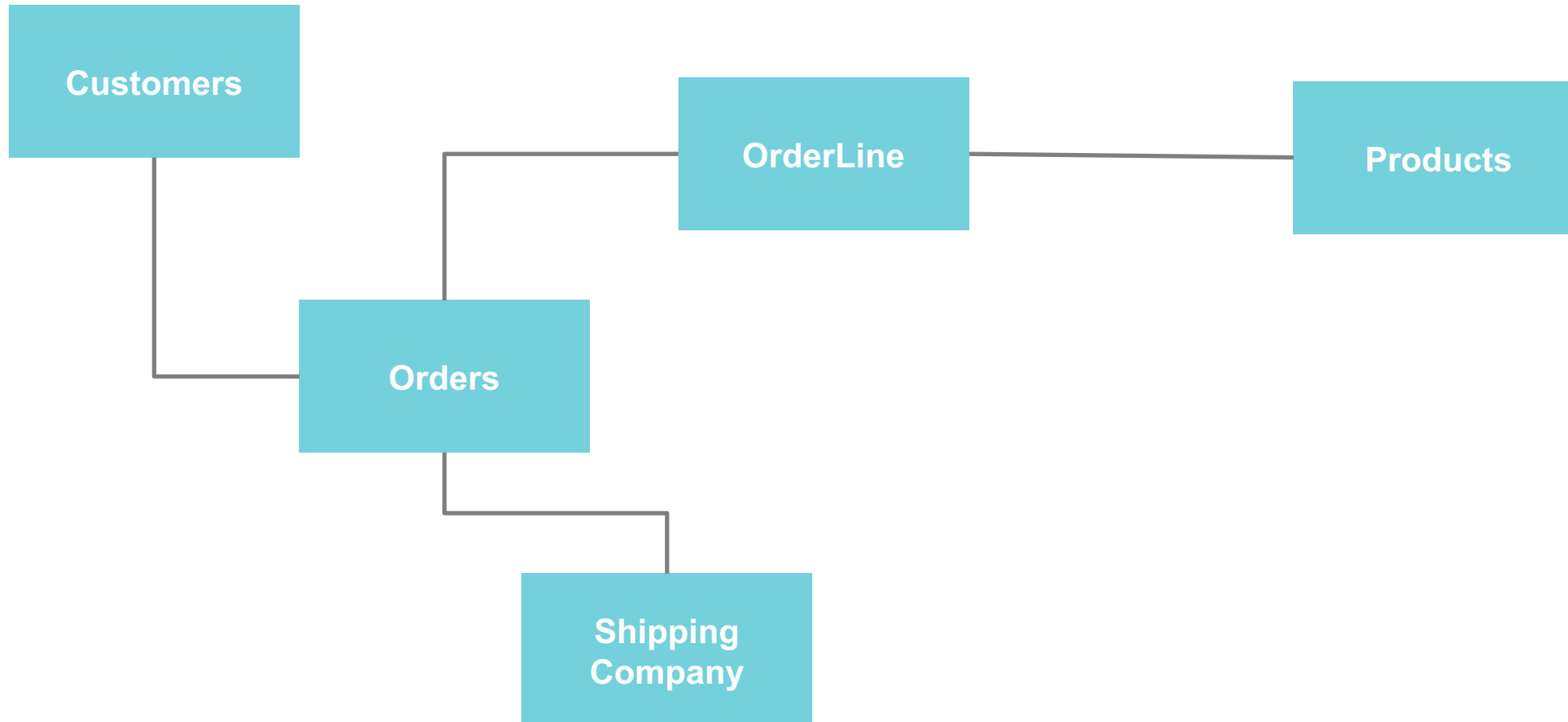




ONTWIKKEL DATAMODEL



DATAMODEL

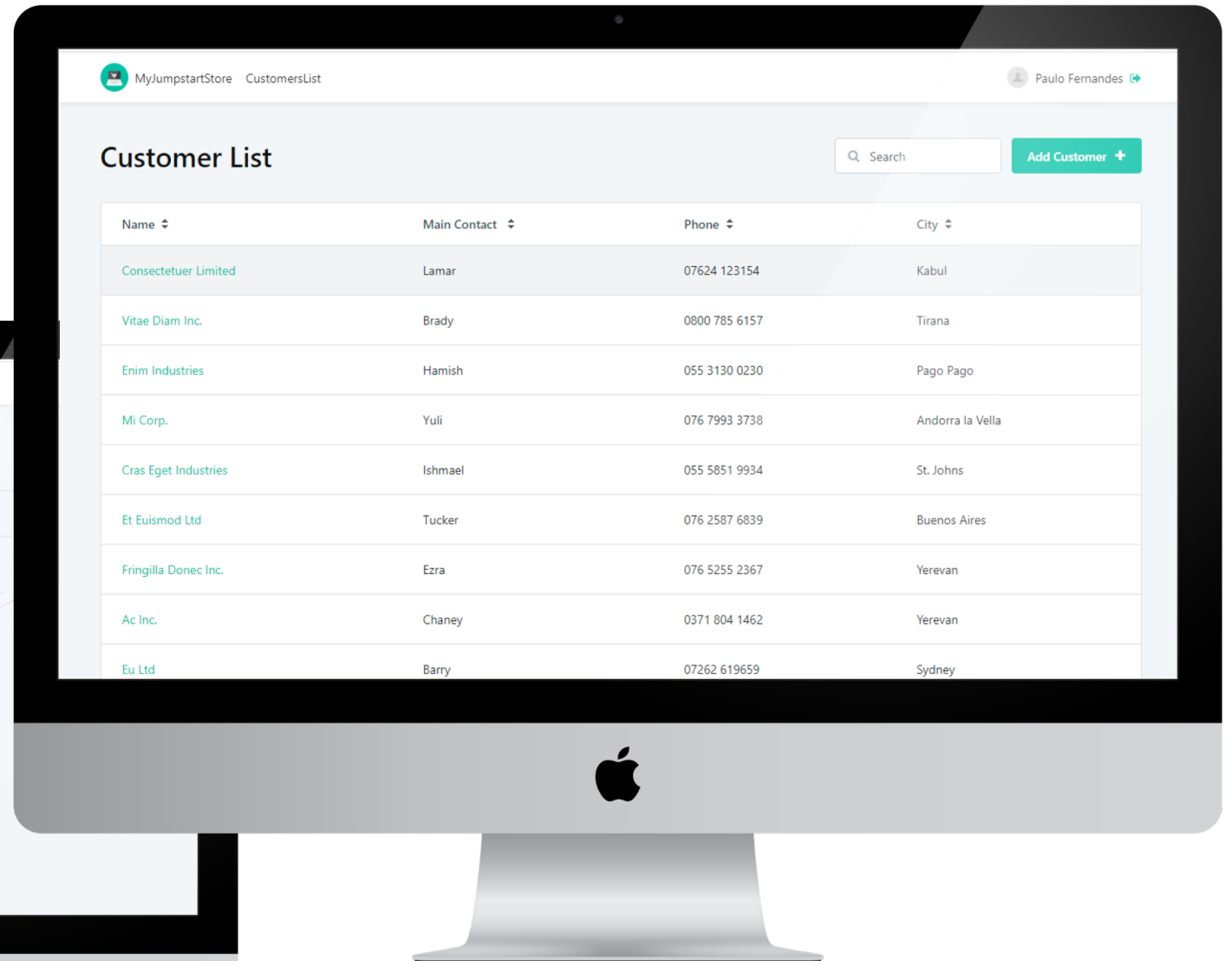
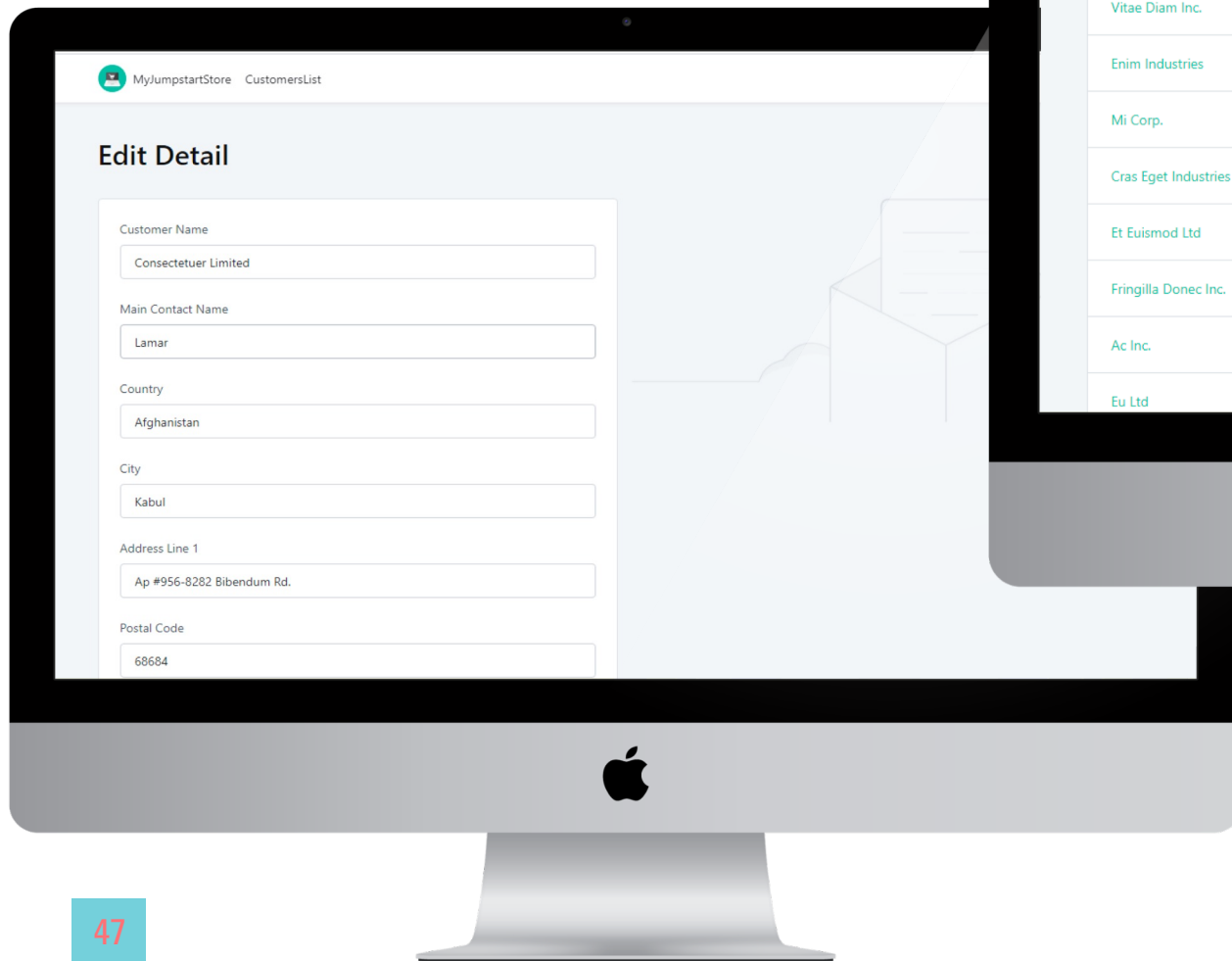




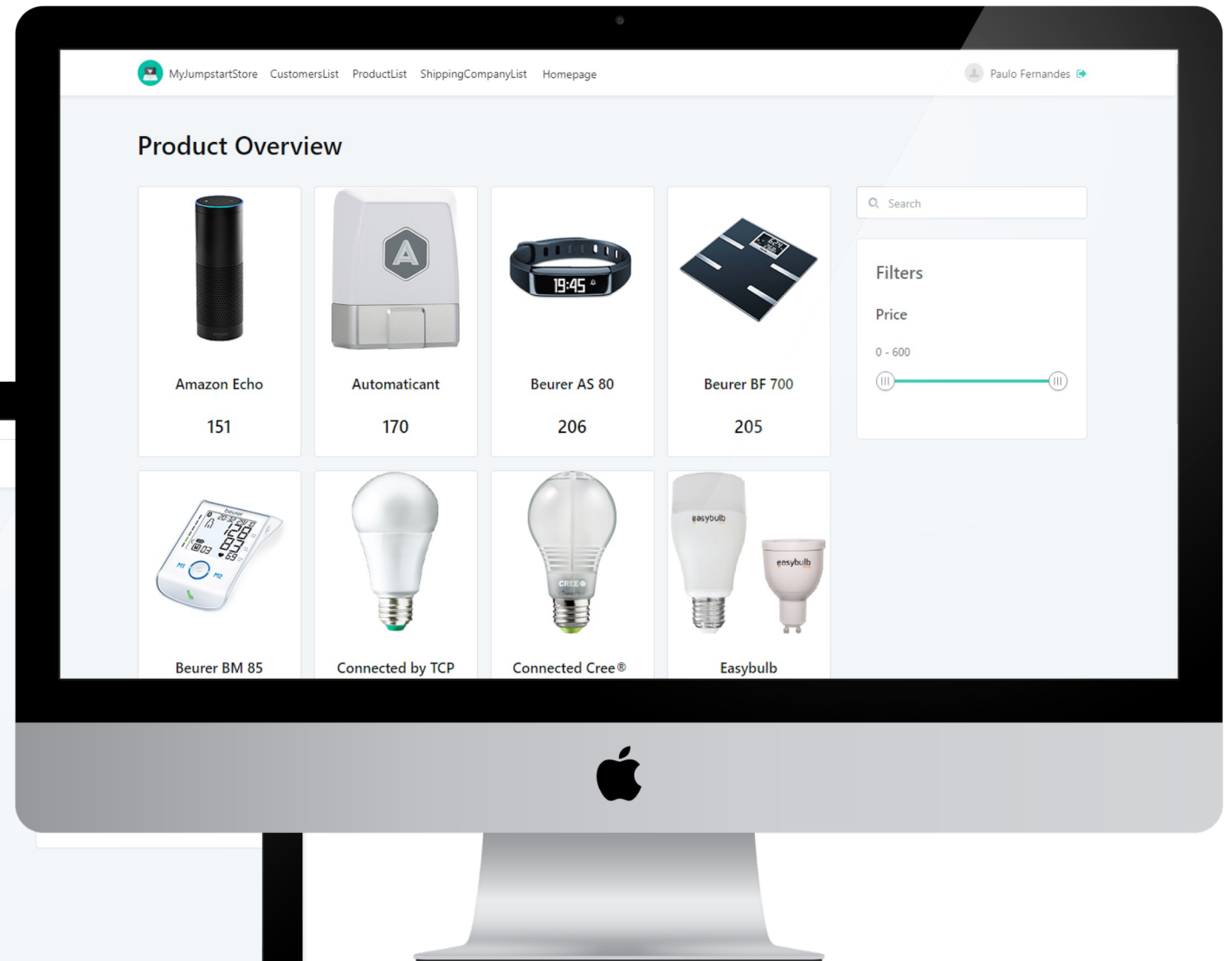
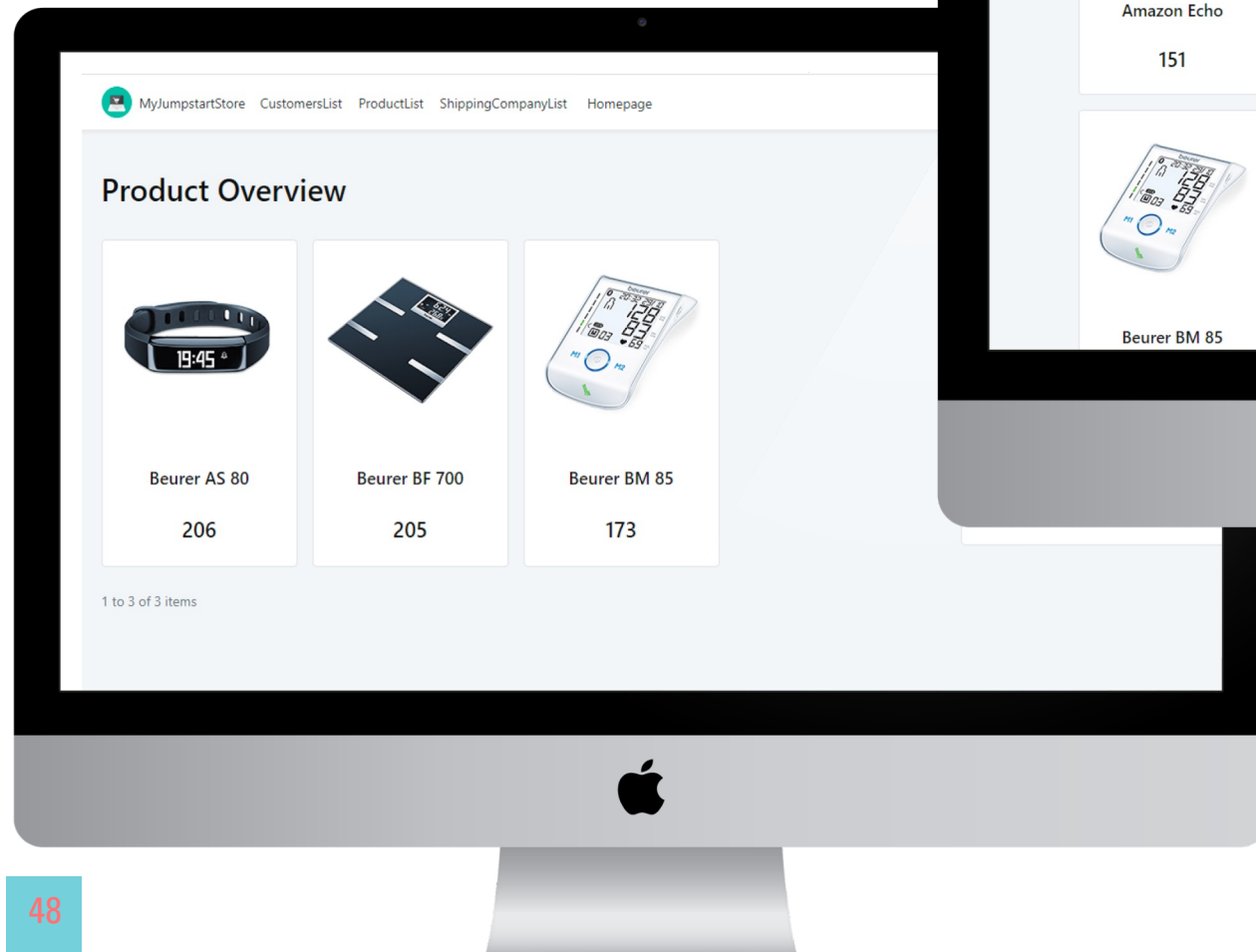
ONTWIKKEL SCHERMEN



KLANT, ORDER LOGISTIEKE PARTNER SCHERMEN



HOMEPAGE SCHERM





PAS ORDER SCHERMEN AAN

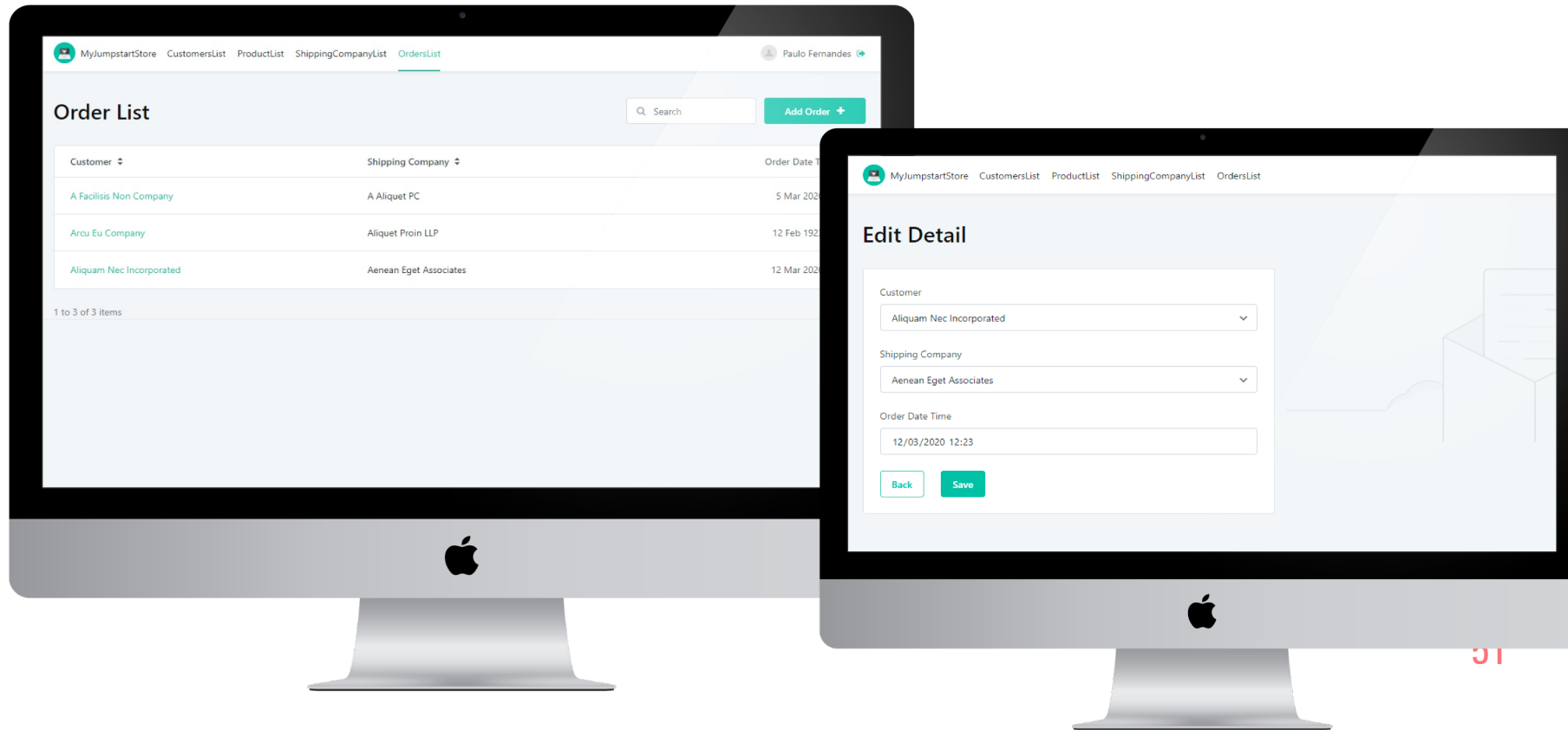


PAS ORDER SCHERMEN AAN

- We willen dat gebruikers items kunnen toevoegen aan een bestaande order.
- Om dit voor elkaar te krijgen moeten we de Order Lijst en het Order Detail scherm aanpassen aan onze behoeften.

HUIDIGE SCHERMEN

Dit is hoe de schermen er **nu** uitzien



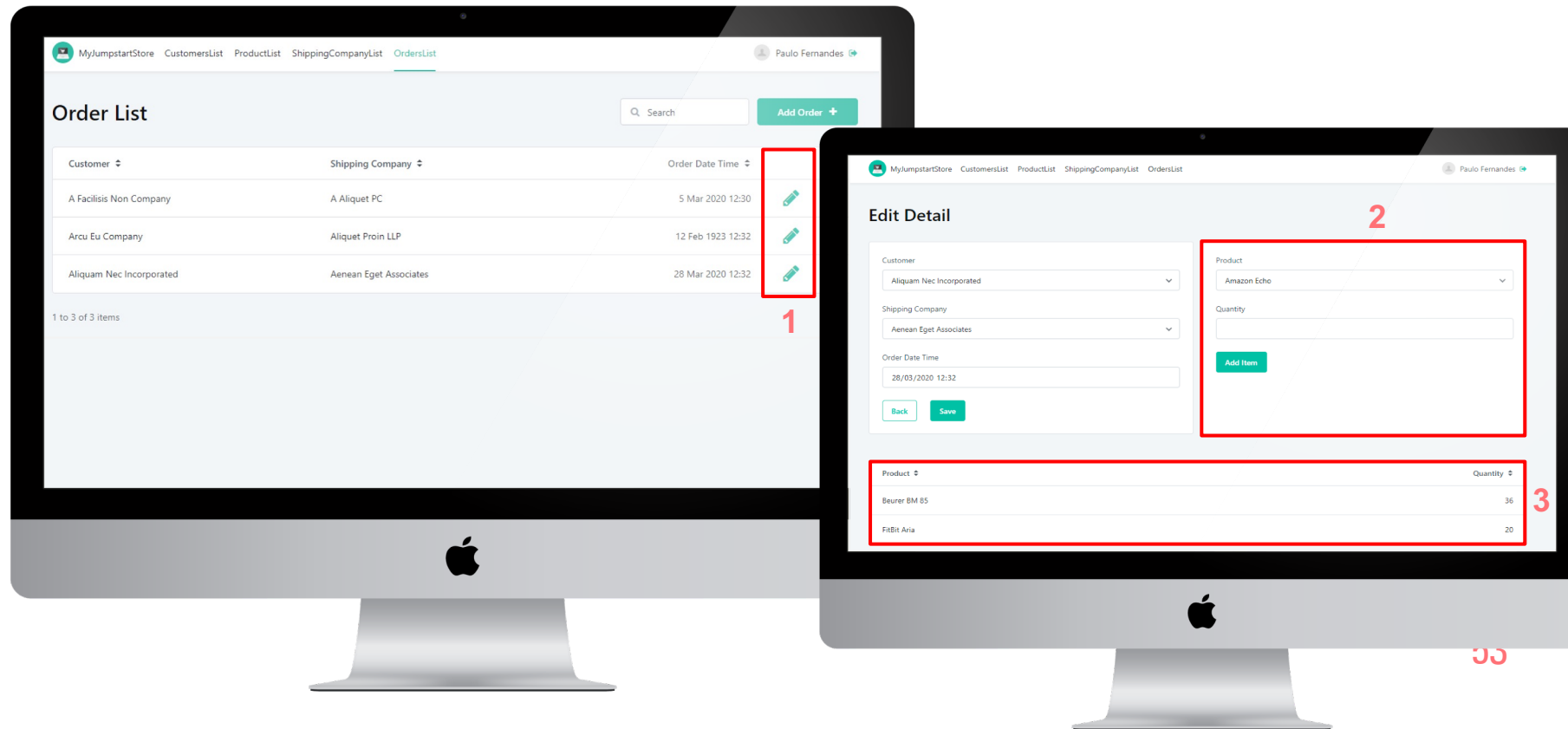
AANGEPASTE SCHERMEN

Dit is hoe de schermen er uit zien aan het einde van deze sessie



AANPASSINGEN AAN SCHERMEN

Dit is hoe de schermen er uit zien aan het einde van deze sessie



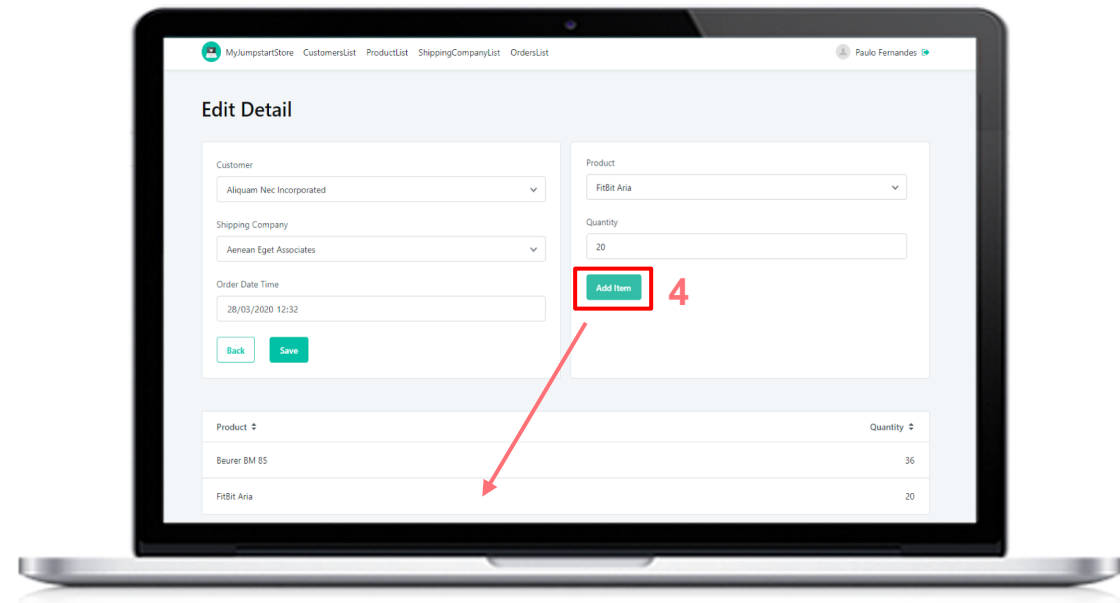


ONTWIKKEL LOGICA



HUIDIGE SCHERMEN

- Laten we de missende logica ontwikkelen die gebruikers in staat stelt items aan orders toe te voegen
- Wanneer we klikken op 'Add Item', wordt een nieuw product toegevoegd op basis van de Quantity and Product die geselecteerd zijn





BOUW REST API



REST API

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

Status Description

Content-Type

Data Type (Model Example)

application/json

```
{
  "Id": 1234567891234567,
  "ProductName": "string",
  "ProductCode": "string",
  "Picture": "string",
  "Category": "string",
  "ProductDescription": "string",
  "DistributorLogo": "string",
  "Price": 0,
  "DistributorPhone": 0.1,
```

```
Documentation
x https://paulo-a-fernandes.outsystemscloud.com/MyJumpstartStore/rest/Products/GetProducts

[{"Id":2,"ProductName":"Amazon Echo","ProductCode":"CD628248719581","Picture":"https://www.muzley.com/uploads/devices/main_56f44bc879570537086229100.png","Category":"Voice","ProductDescription":"Use your voice to control your Muzley devices.", "DistributorLogo": "https://www.muzley.com/uploads/deviceslogos/brand_56f44bc879570537086229100.png", "Price":151, "DistributorPhone":35193768322.00000000, "QuantityStock":180}, {"Id":21,"ProductName":"Automatic","ProductCode":"CD695431979633","Picture":"https://www.muzley.com/uploads/devices/main_5605f1736cab5e7338216387.png","Category":"Automotive","ProductDescription":"Turn your car into a connected car and enhance your driving experience.", "DistributorLogo": "https://www.muzley.com/uploads/deviceslogos/brand_5605f1736cab5e7338216387.png", "Price":170, "DistributorPhone":35193768341.00000000, "QuantityStock":67}, {"Id":57,"ProductName":"Beurer AS 80","ProductCode":"CD746085339127","Picture":"https://www.muzley.com/uploads/devices/main_571551d359aa606994359a25.png","Category":"Health & Fitness","ProductDescription":"This activity sensor continuously tracks your physical activity and monitors quality of sleep.", "DistributorLogo": "https://www.muzley.com/uploads/deviceslogos/brand_571551d359aa606994359a25.png", "Price":1206, "DistributorPhone":35193768377.00000000, "QuantityStock":59}, {"Id":56,"ProductName":"Beurer BF 700","ProductCode":"CD903391978613","Picture":"https://www.muzley.com/uploads/devices/main_571554e859aa606994359a27.png","Category":"Health & Fitness","ProductDescription":"Track your measurements and body data at home and on the move.", "DistributorLogo": "https://www.muzley.com/uploads/deviceslogos/brand_571554e859aa606994359a27.png", "Price":1205, "DistributorPhone":35193768376.00000000, "QuantityStock":78}, {"Id":55,"ProductName":"Beurer BM 85","ProductCode":"CD82441869045","Picture":"https://www.muzley.com/uploads/devices/main_5715544059aa606994359a26.png","Category":"Health & Fitness","ProductDescription":"Check your blood pressure anytime, anywhere.", "DistributorLogo": "https://www.muzley.com/uploads/deviceslogos/brand_5715544059aa606994359a26.png", "Price":173, "DistributorPhone":35193768375.00000000, "QuantityStock":80}, {"Id":9,"ProductName":"Connected by TCP","ProductCode":"CD599646053645","Picture":"https://www.muzley.com/uploads/devices/main_56001d60215708f9755113e6.png","Category":"Lighting","ProductDescription":"Manage your lighting locally or from anywhere in the world through the Internet.", "DistributorLogo": "https://www.muzley.com/uploads/deviceslogos/brand_56001d60215708f9755113e6.png", "Price":173, "DistributorPhone":35193768329.00000000, "QuantityStock":139}, {"Id":10,"ProductName":"Connected Creel LED bulbs","ProductCode":"CD83866401479","Picture":"https://www.muzley.com/uploads/devices/main_56001e77215708f9755113e6.png","Category":"Lighting","ProductDescription":"Automate your lamps from anywhere for the perfect environment.", "DistributorLogo": "https://www.muzley.com/uploads/deviceslogos/brand_56001e77215708f9755113e6.png", "Price":193, "DistributorPhone":35193768330.00000000, "QuantityStock":97}, {"Id":62,"ProductName":"Easybulb","ProductCode":"CD03183084257","Picture":"https://www.muzley.com/uploads/devices/main_5605f1736cab5e733821638b.png","Category":"Lighting","ProductDescription":"A smart light bulb that lasts up to 25 years, controllable from anywhere.", "DistributorLogo": "https://www.muzley.com/uploads/deviceslogos/brand_5605f1736cab5e733821638b.png", "Price":211, "DistributorPhone":35193768382.00000000, "QuantityStock":123}, 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UITLEG CASUS

10:25 – 10:30



WAT GAAN WE DOEN / HEB JE NODIG?

Wat gaan we doen?

Je gaat een mobiele applicatie bouwen die de producten toont die komen uit het datamodel dat we zojuist gebouwd hebben.

De app zal gebruik maken van barcode scanning.

Wat heb je nodig?

- OutSystems Web Studio – Zelf downloaden
- Excel File met producten – gestuurd via e-mail
- Instructie PowerPoint – gestuurd via e-mail



PAUZE

10:30 – 10:40





AAN DE SLAG

10:40 – 11:40





AFSLUITING

11:40 – 12:00



VRAGEN

- Licentiemodel
 - Externe gebruikers
 - Interne gebruikers

HOE GA JIJ NU AAN DE SLAG?

OutSystems Community is 24/7 beschikbaar:



Learn



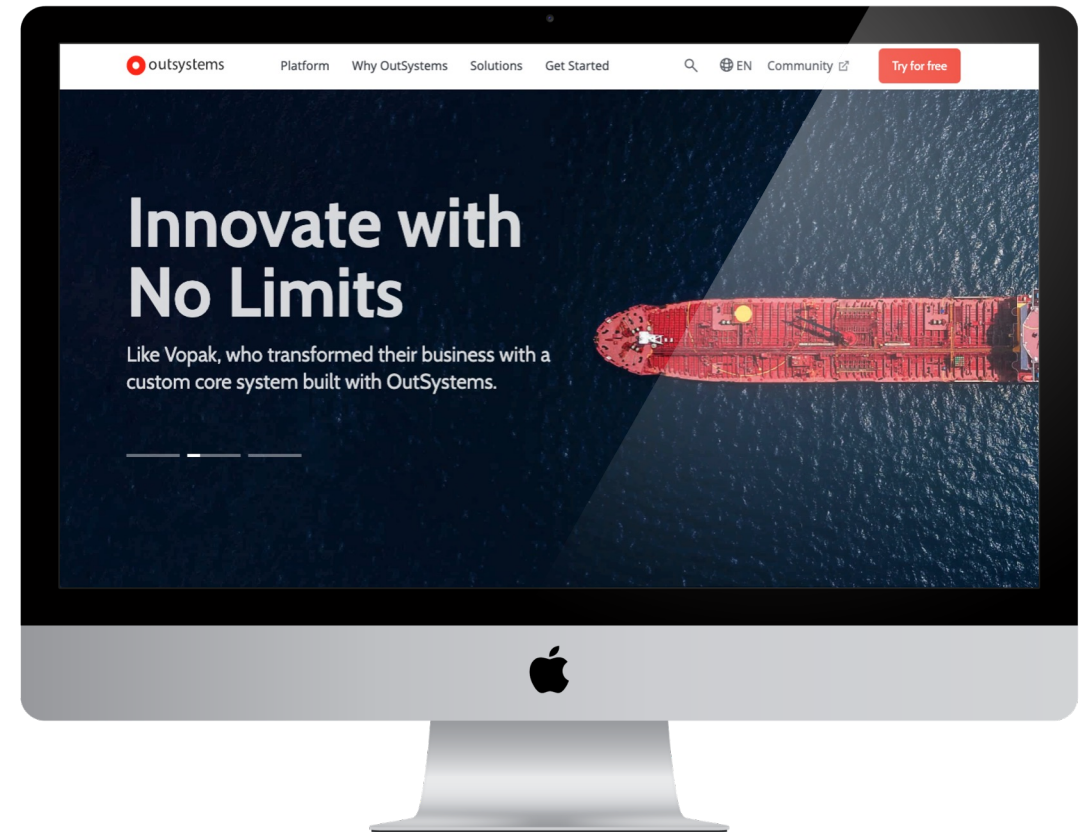
Forums



Knowledge Base



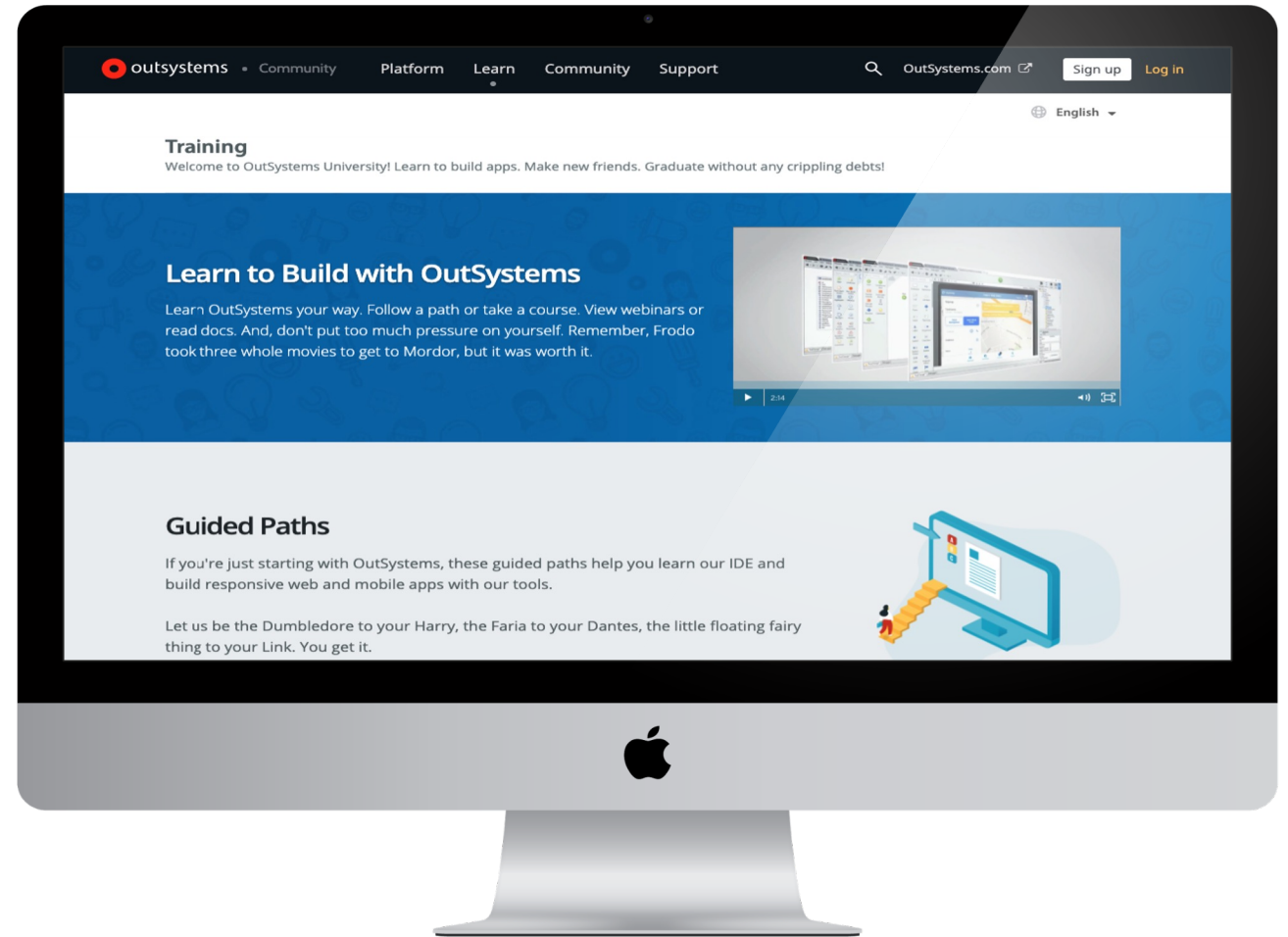
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LEARN



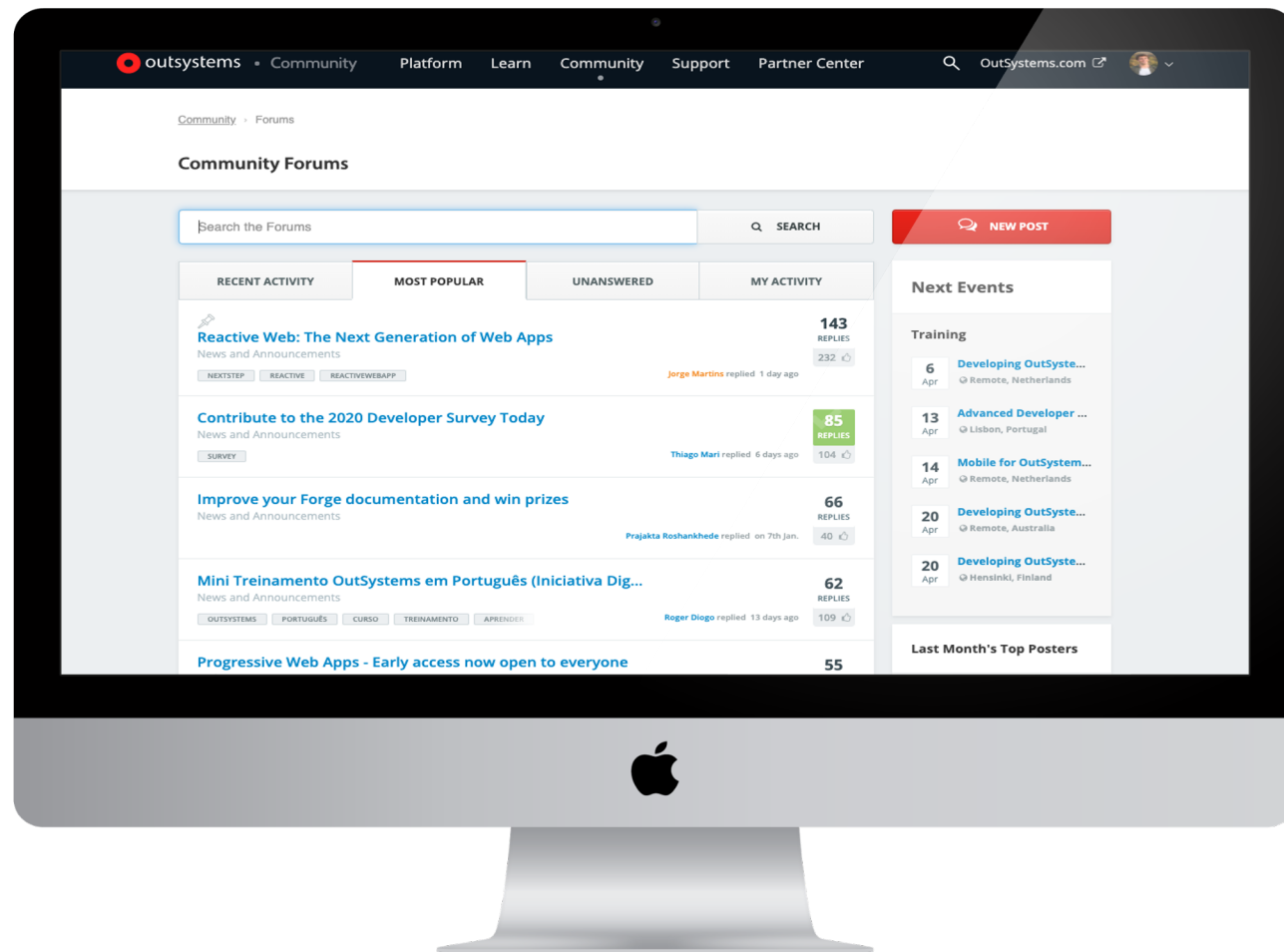
Learn



FORUMS



Forums

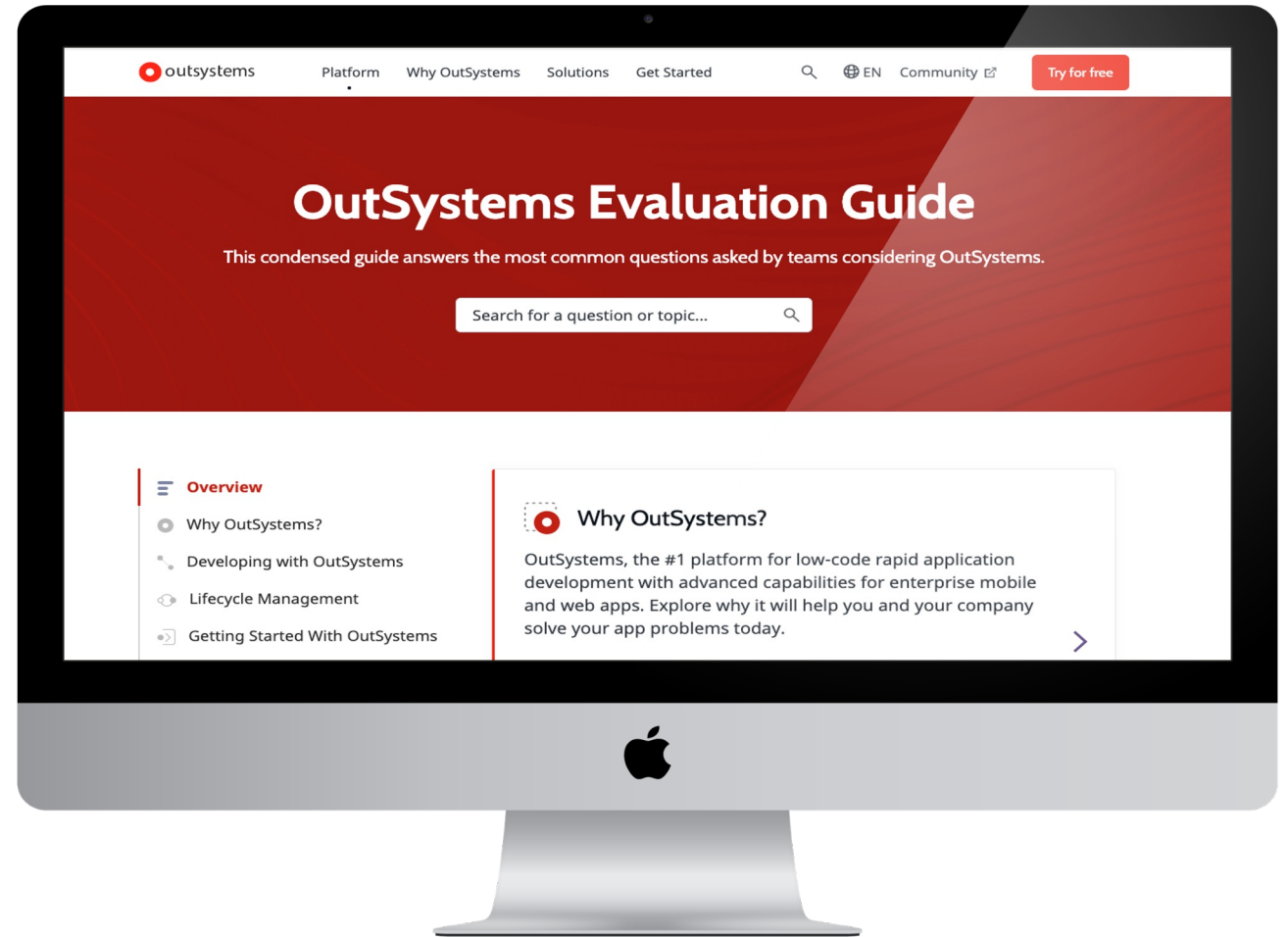


KNOWLEDGE BASE



Knowledge Base

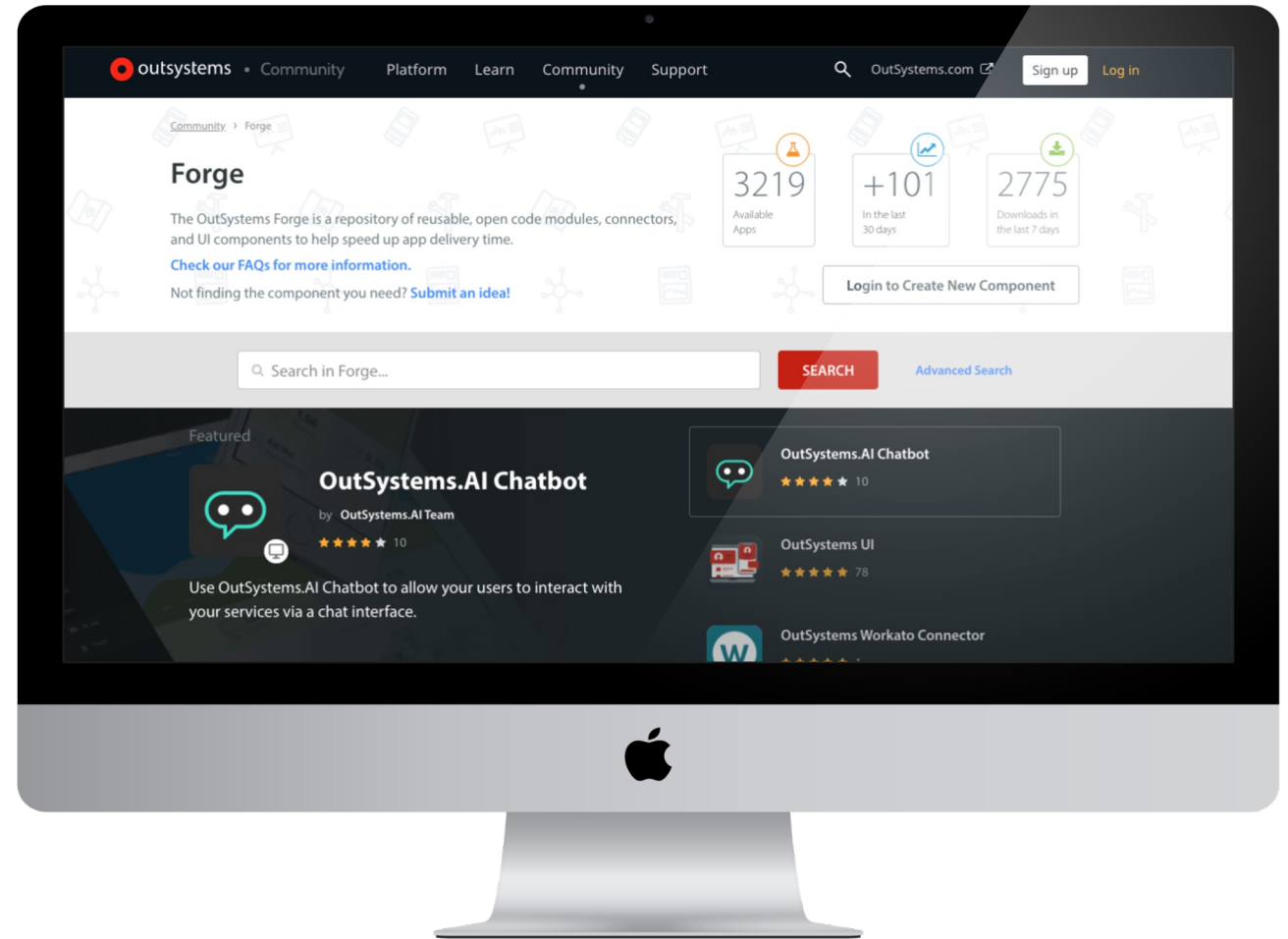
- Veel artikelen en how-to's



FORGE



Forge



WAT NEEM JE MEE NAAR HUIS?



Je **weet** wat lowcode is en hoe het verschilt van development.



Je **kent** de voordelen van lowcode en het gebruik van OutSystems.



Je **weet** hoe je de kracht van OutSystems optimaal kunt inzetten.



Enthousiasme om meer over het OutSystems te weten te komen zodat je er mee **aan de slag** kunt gaan!

Stel je vragen en opmerkingen gewoon tussendoor!

