Welcome to HUG

2023-05-10

HUGstage23

HUGstage23

Safety & Convenience

- Emergency exits
- No planned fire drills

- Coffee break both before and after lunch
- Rest-room is out in the hallway and to the left
- Jonas is time-keeper

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Mentimeter #1/2/3

Go to

www.menti.com

use the code

7101 4623

HUGstage23

Agenda

- About Highstage
- Introducing: eBOM by Nordcad
- eBOM by Nordcad case: Operations
- What's new in V12?
- CMS
- New UI
- New Folder View

Lunch: 1145

- Is there a life after Highstage?
- Recab: Manufacturing, Devices and a barcode skanner
- SolidWorks MCAD intergrations
- The List feature
- The updated Import feature

Thank you: 1500

- Techie's corner

Reference 2.0, Templates, Basetype inheritance

Dinner: 1700

About Highstage

First: Meet the team

HUGstage23

Steady growth

BØRSEN 20, 21, (22)

All owners are employees/board members
All employees have shares/warrants

Primarily Subscription model
ARR is 90%+ of license revenue
High-profile customer base with very low churn

Employee growth last 3 years

3 -> 8

Customer growth last 3 years

30 -> 45

ARR/Customer growth last 3 years

€15k -> €55k

Revenue growth last 3 years

€200k -> €600k

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New customers

Mobility

SENSITIVUS

PODBIKE

GreenTech

WINDEED

NORTEK

HAGAL

əDrilling

SW

GLOBAL SCANNING

Medical & Bioscience

MagVenture

oivi

HeProCalc

CANDELA

TRA

Sophion

bk medical
a GE Healthcare company

UNEEG medical

DDD Diagnostic

Biolin Scientific
[Progress Together]

rd support

EXCITUS

TIDEWAVE

Telecommunication/Electronics

Recab

AVA MONITORING
simpler measurement, automatically

CAVIUS

danelec MARINE

COMBILENT

kaelus

DEVELCO PRODUCTS

Electronics

USERSTECH

EMRI

FALCOM GN

FINGERPRINTS

INVISIO

SHURE

TELEDYNE RESON
Everywhereyoulook

HBK HOTTINGER BRÜEL & KJÆR

SILICON LABS

ASSA ABLOY

Asset mngt.

YARA

RA Norway

TLS

PetroPort

SENAB EIKELAND

future PRODUCTION A/S

D/WELLOP

Energy & Utilities

IMS Intelligent Mud Solutions

CUBILITY

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New partners

BY NORDCAD

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Highstage USP (rocket analogy)

USP
Land on moon surface

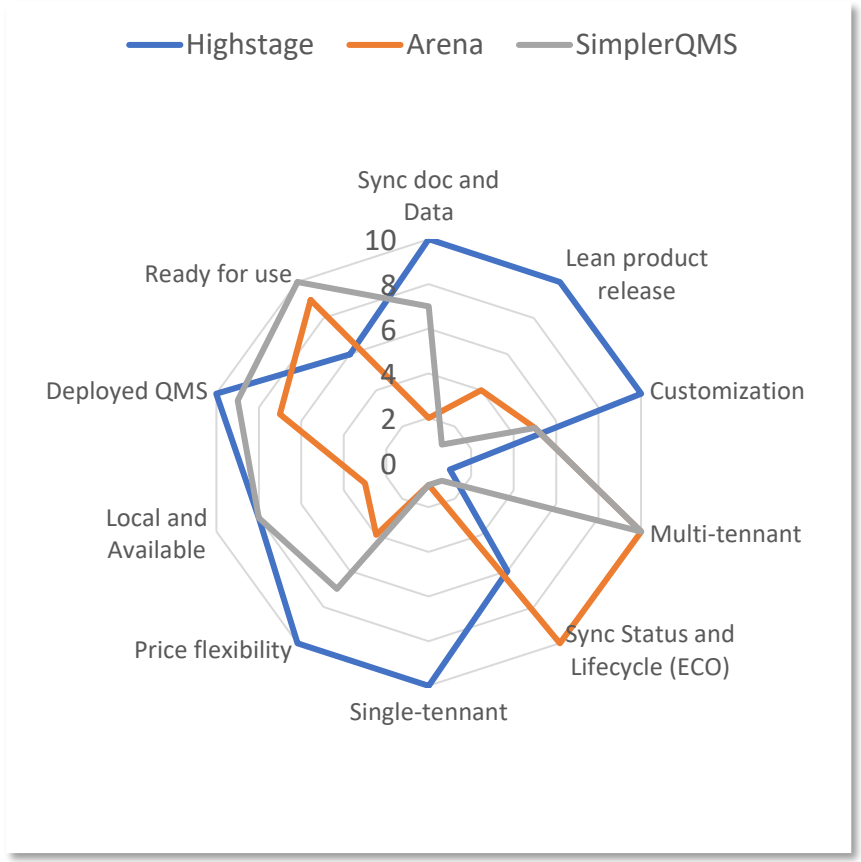
Differentiators
Travel to the moon

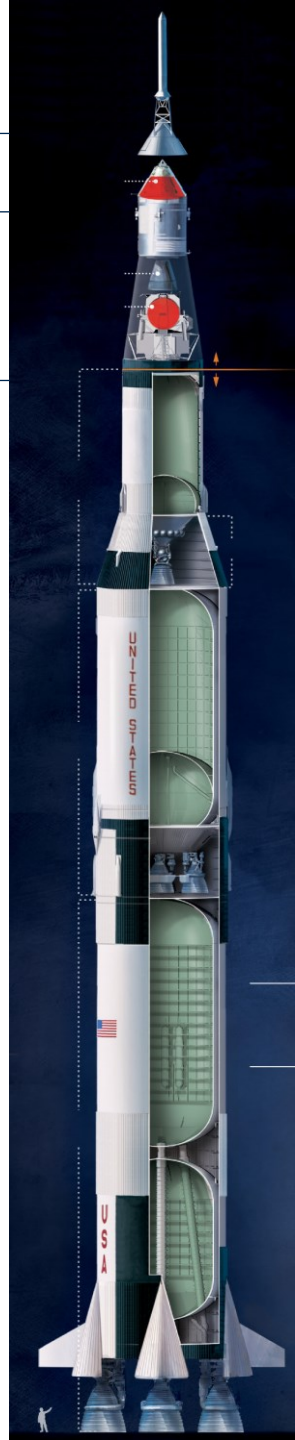
Basic
Lift from ground

USP
- Lean product management – unsynced approval and release (PLM)
- Synced doc, data and processes (QMS)
- Extreme Low-code customizations

Differentiators
- Reference Locks
- No need for consultants to streamline your business
- Document management
- Local and near
- Webdav
- Generates benefits for all
- Single tenant
- Scandinavian approach
- Cross-OS, Cross-browser
- FDA Part 11
- Built-in XML/JSON interfaces for extraction to Business Intelligence
- Fully Qualified URL's

Basic
- Revision management
- BOM Management
- BOM Export
- Assy structures
- 100% web-based
- Integration





Testimonials

- From medtech

“Today, when we receive our audits from the authorities, the auditors are fully aware of Highstage. They trust the system and just log into the system. You almost forget how long time an audit took before Highstage. Boy, I’m glad we moved on.“

Quote: Anonymous happy customer, 2022

Highstage

Source: Clienti Customer Satisfaction Survey 2022

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What people say about us

Everything needs to be in HS, otherwise, you will be fired.

- Takes the human error out of communication about our product
- Confidence when talking to customers
- The uncertainty has gone away
- Searching, finding and using the right information at the right time
- HS empowers the people in your company
- Enables our people to move fast
- System that keeps you compliant. Keeps track of everything
- Even the hardcore engineers who are not documentation oriented at all, they really hate creating documentation, they are doing it because it is so easy!
- Eliminates the very costly and time-consuming problems of having the wrong documentation
- I like the people at HS. They are honest and responsive.

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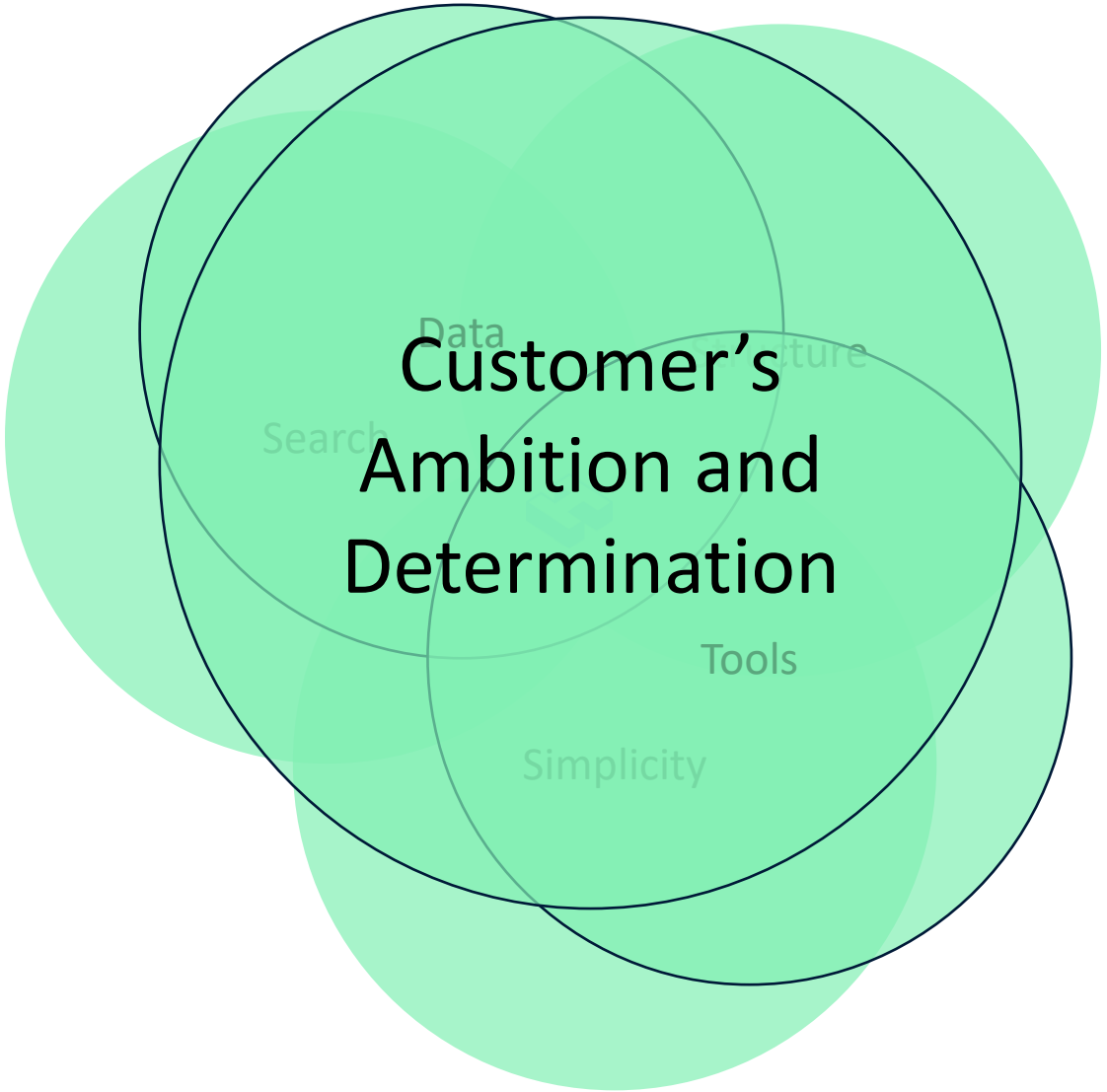

Erik Driehuis:
«You have **WONDERFUL** customers»

YOU are our HEROES

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Targets

Scandinavia	Northern Europe	Europe	North America
1 year	2 years	3 years	4 years
Be shortlisted on ALL QMS/PLM tenders in Scandinavia	Be shortlisted on ALL QMS/PLM tenders in Northern Europe	Be shortlisted on 50% of QMS/PLM tenders in Europe	Be shortlisted on 20% of QMS/PLM tenders in US

Strategy

NOT take investments,
STAY independent

Introducing:
eBOM by Nordcad

eBOM by Nordcad

Hi there!

Highstage

eBOM BY NORDCAD

Our role

Highstage

BOM BY NORDCAD

Core team

Daniel Nihlén

CEO / Sales

Klara Sibeck

CXO / Customer Experience

Magne Karlsson

CTO / Technical

Benjamin Both

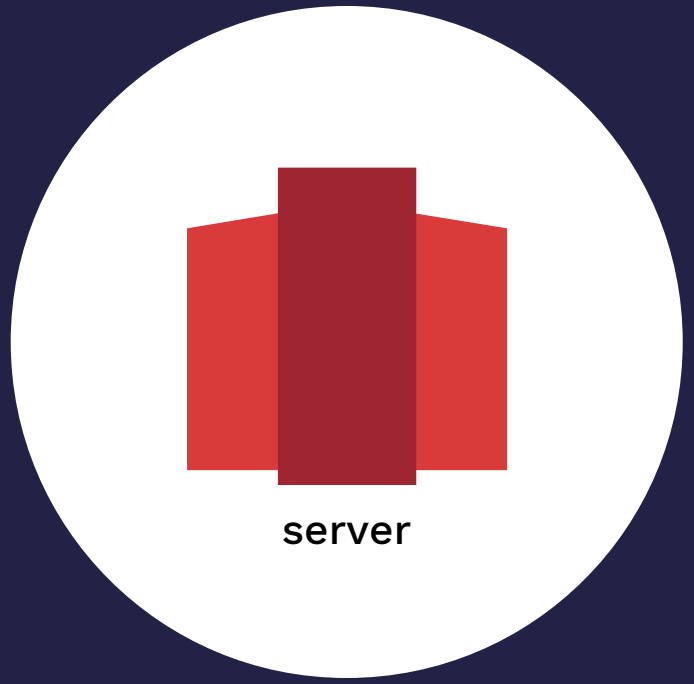
Application Engineer

Highstage

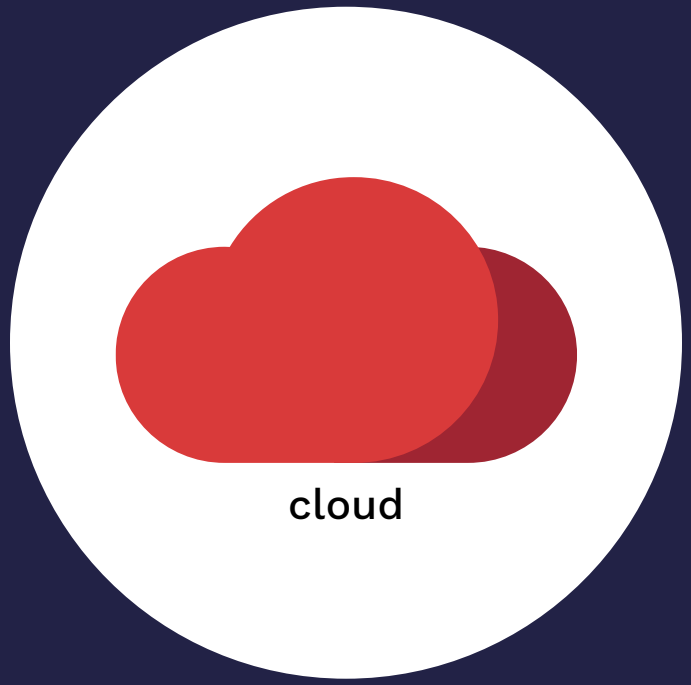
BY NORDCAD

Extended team at Nordcad

The development of PLM



server



cloud

Highstage

Highstage

BY NORDCAD

The PLM dilemma

Customized system

+ highly customizable
+ adapted to your needs

- long implementation
- expensive, many consultancy hours
- high maintenance

vs.

One size fits all

+ quick implementation
+ cost efficient

- no customization
- stuck with wrong features

Highstage

BOM BY NORDCAD

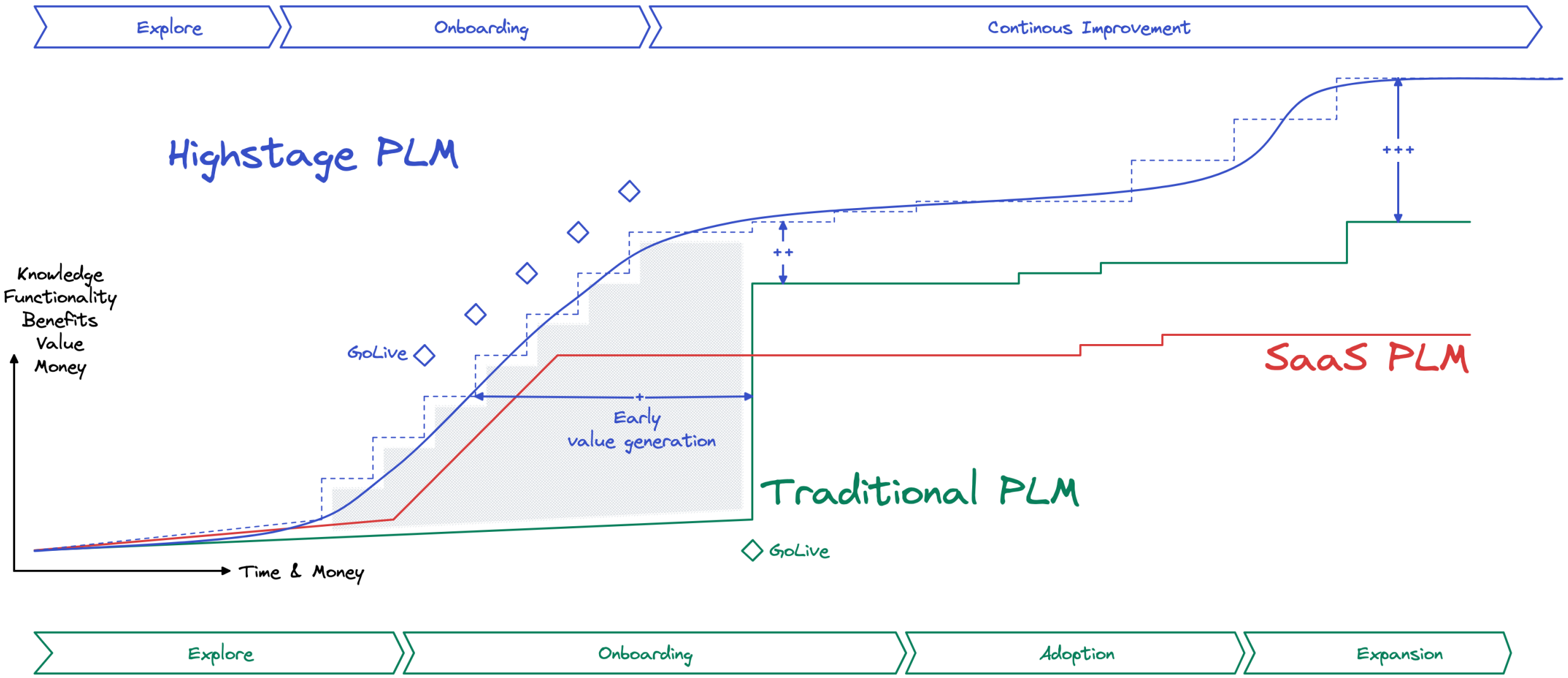
Highstage solves the dilemma

+ highly customizable
+ adapted to your needs
+ quick implementation
+ cost efficient

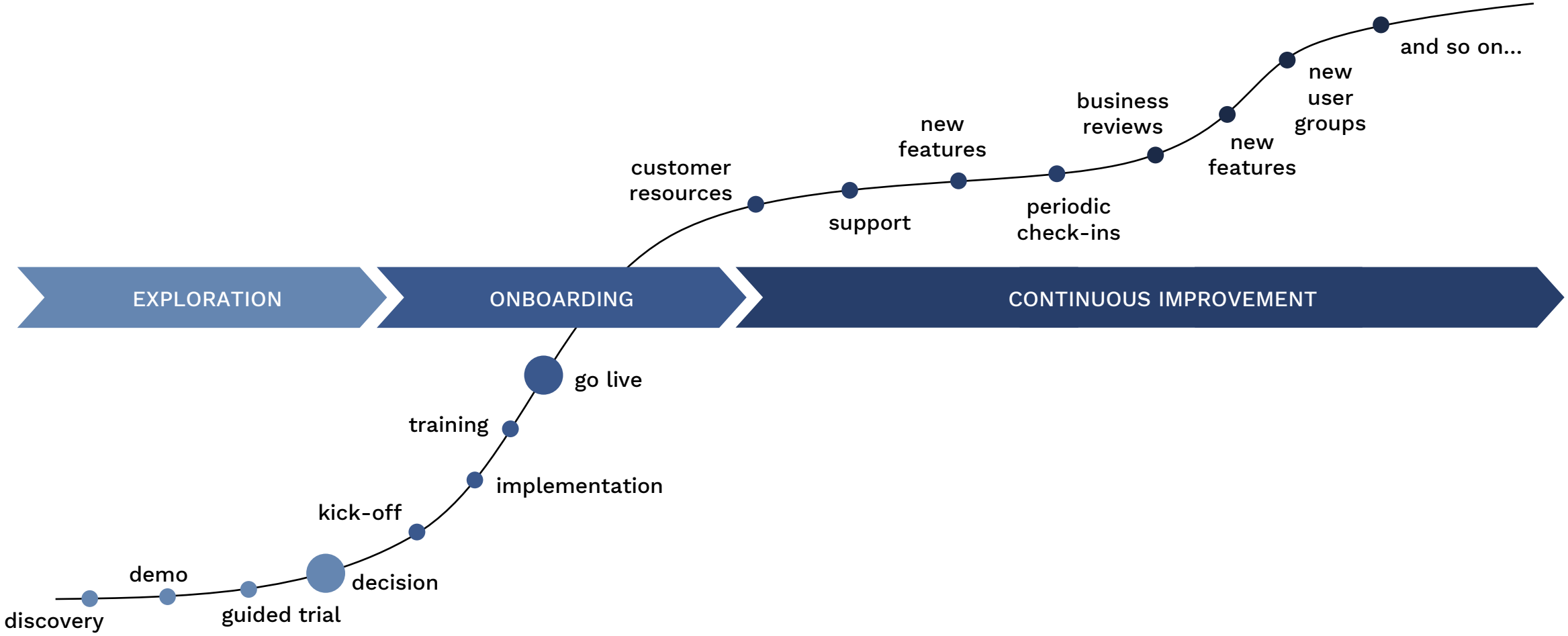
Highstage

BY NORDCAD

Generating value



Customer journey



Highstage

BOM BY NORDCAD

get in touch!

daniel@ebomnordcad.com
klara@ebomnordcad.com
magne@ebomnordcad.com

Highstage

eBOM BY NORDCAD

Quiz!

Highstage

BOM BY NORDCAD

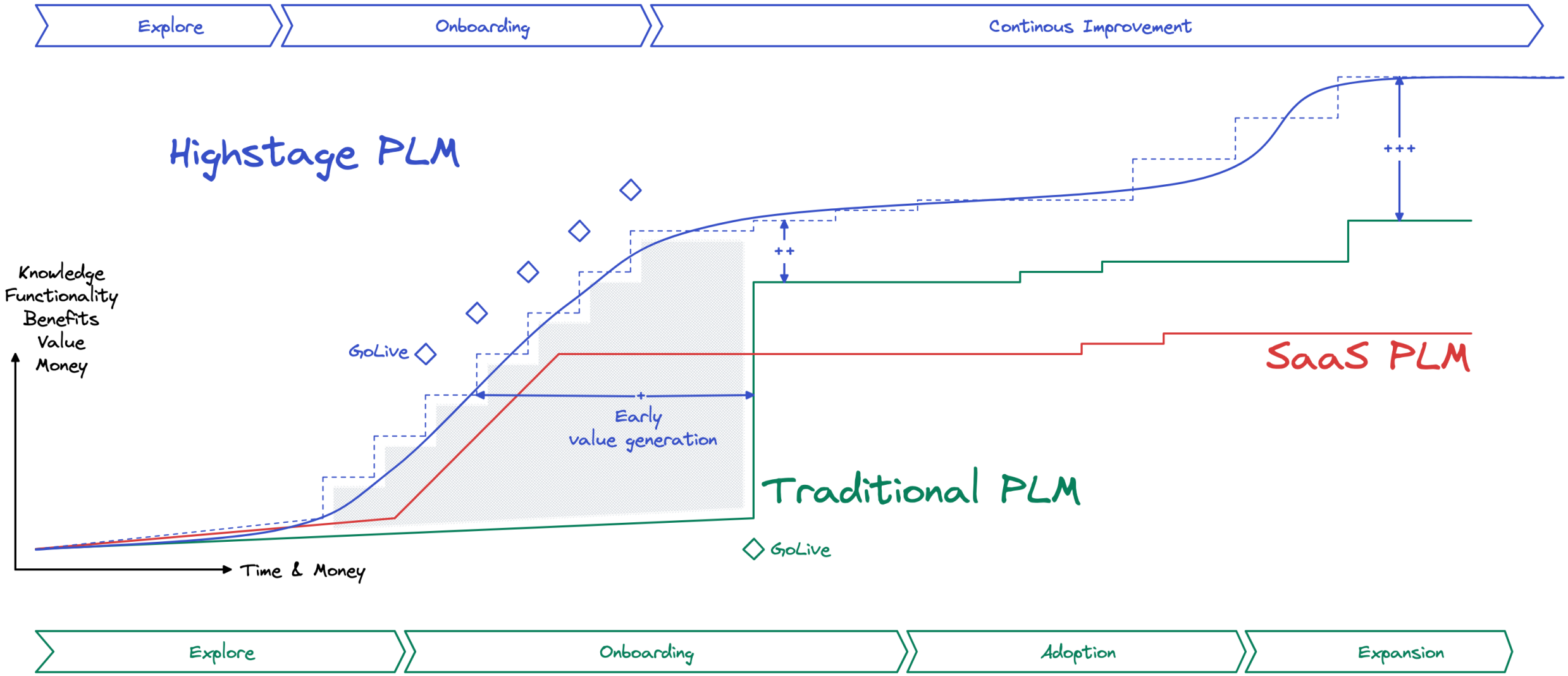
eBOM by Nordcad customer case: Operations

Customer case

Highstage

eBOM BY NORDCAD

Generating value



- Customer case: Operations
- Demo
- Future: Dynamic Documents

Highstage

BY NORDCAD

Operations

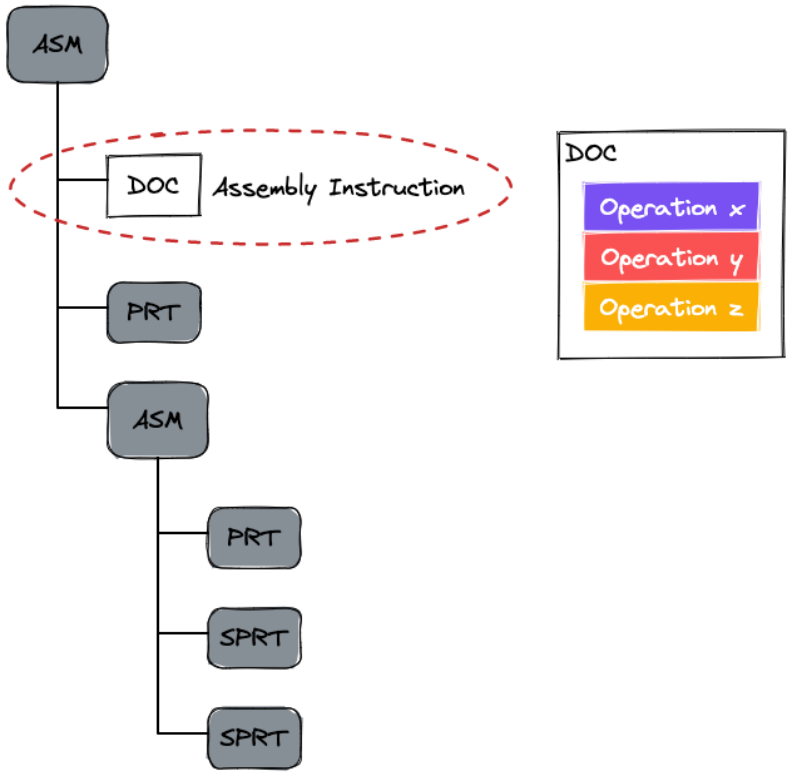
- Instructions for production (manufacturing and assembly)
- Implemented for Highstage customer in Norway

Highstage

BY NORDCAD

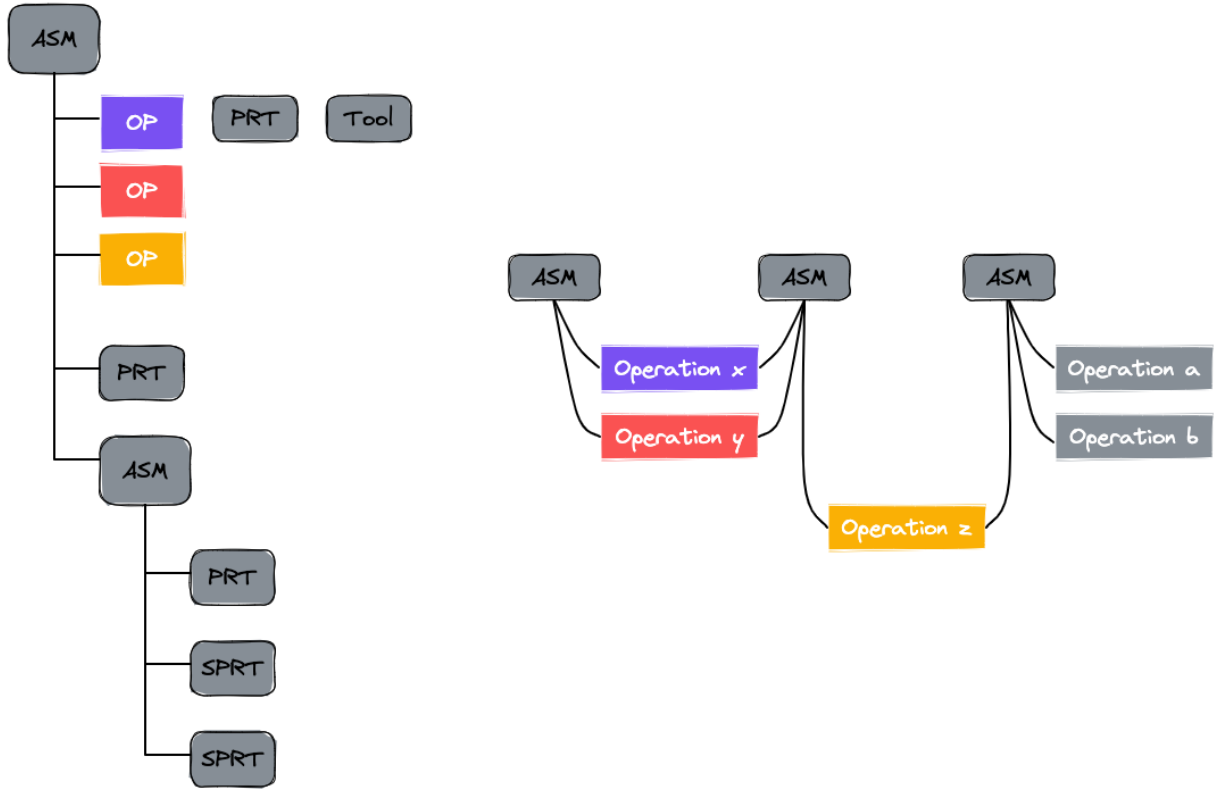
Before

The document way:
Assembly Instruction Document



After

The database way:
Operations - BOP / Routing / "mBOM"



Highstage

BOM BY NORDCAD

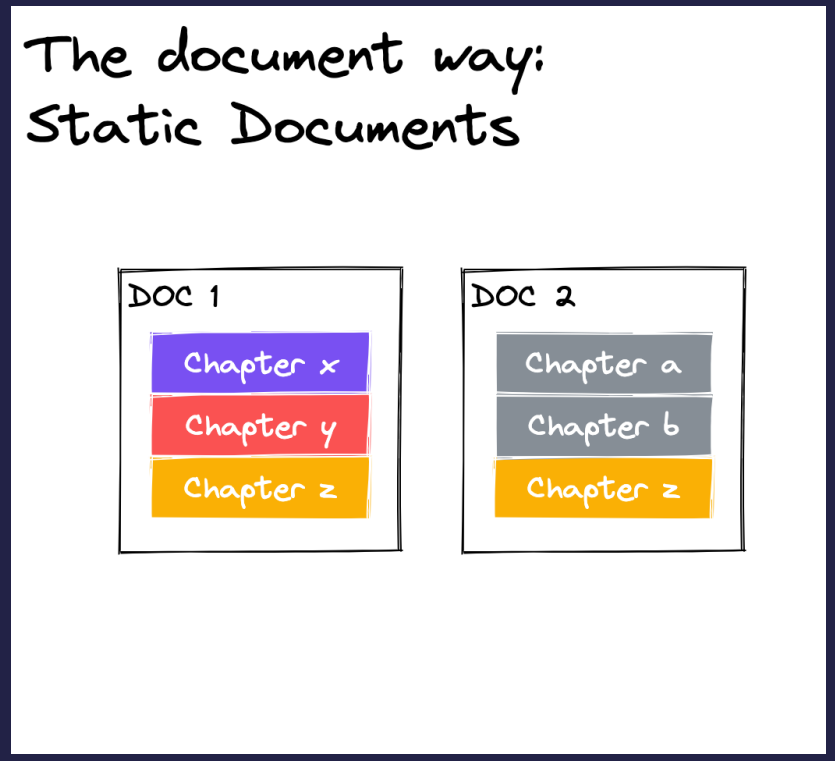
Demo in Highstage

Highstage

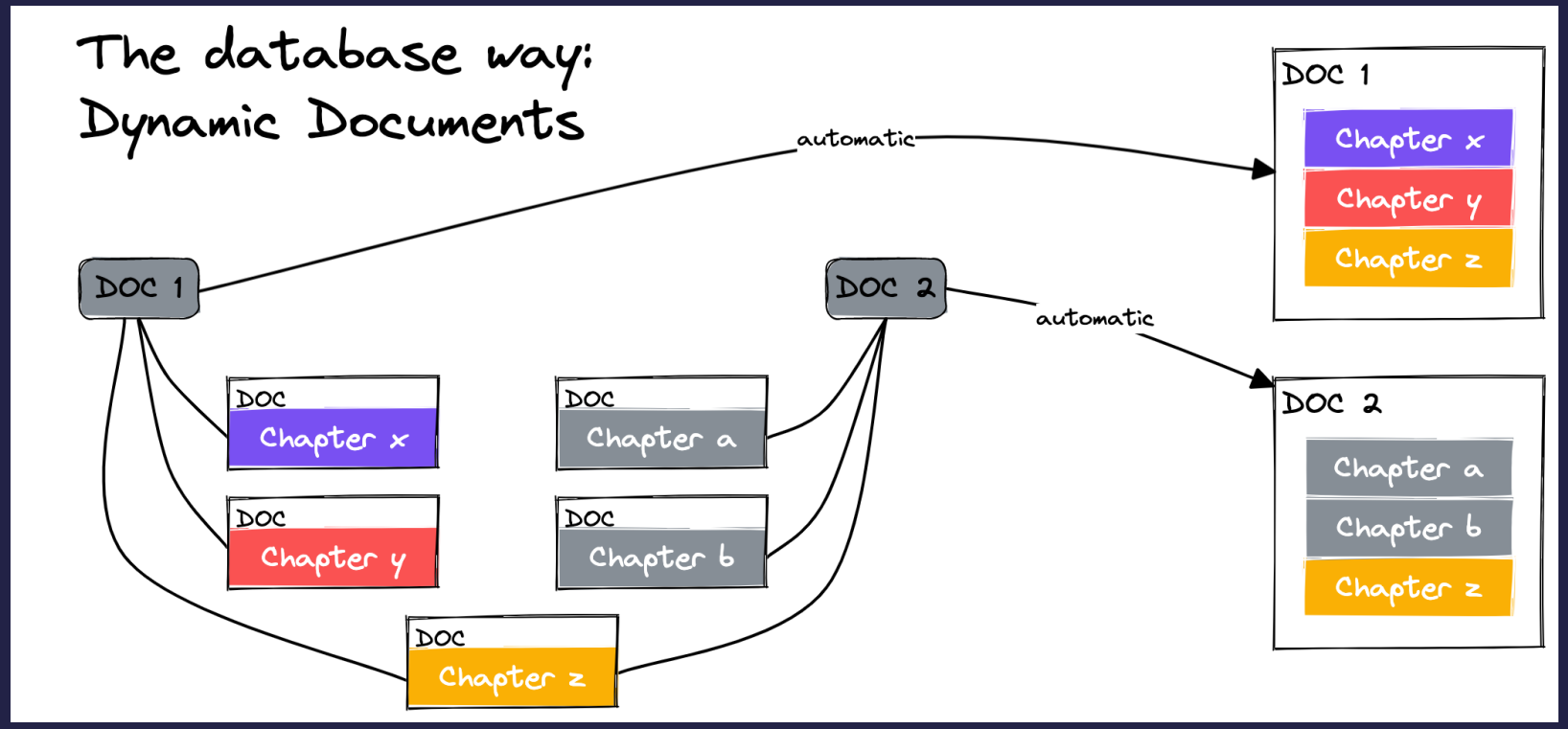
BY NORDCAD

Future: Dynamic Documents

Today



Future



Highstage

BOM BY NORDCAD

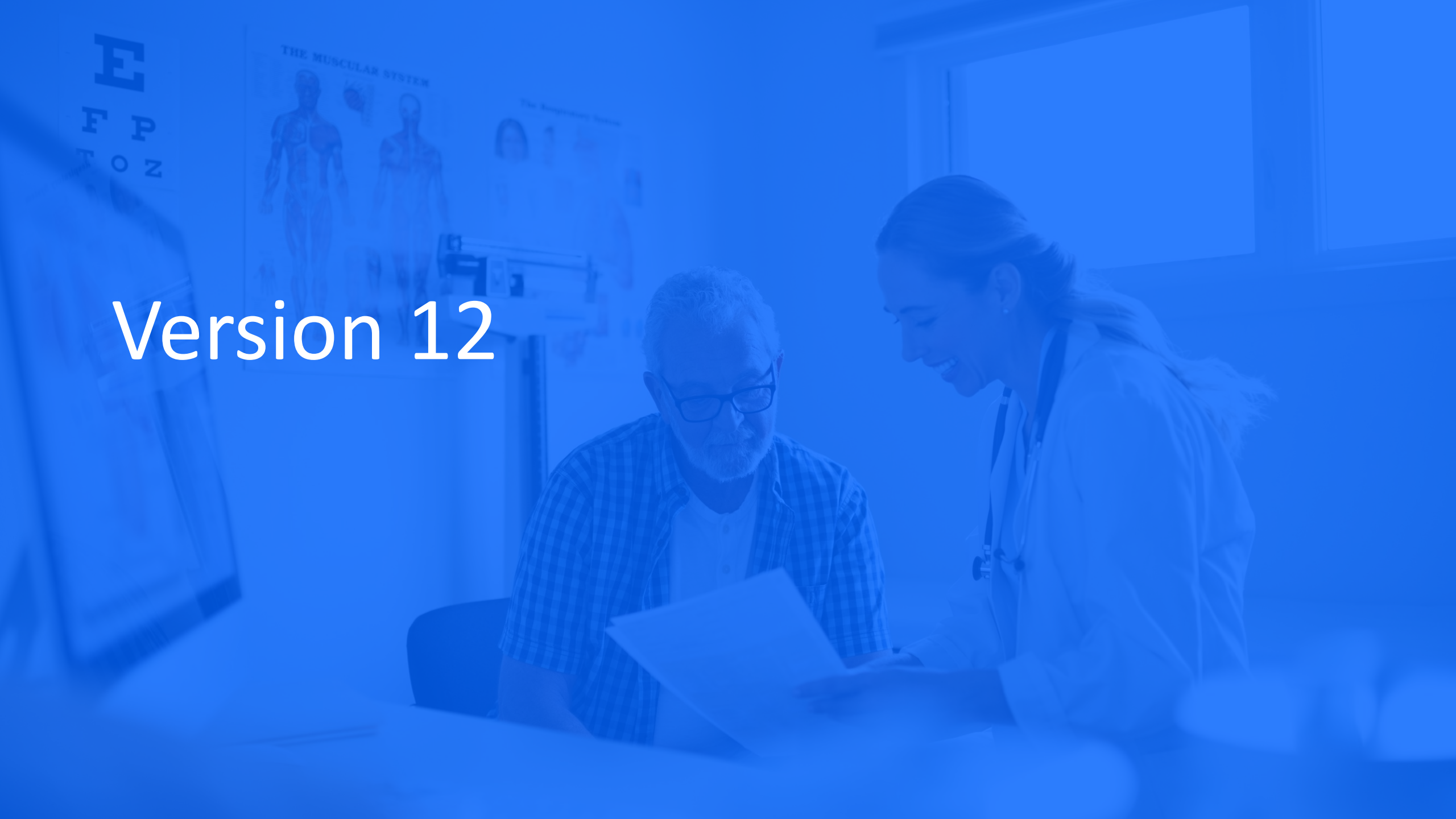
thank you!

Highstage

BOM BY NORDCAD

COFFEE & TEA

HUG 2023



Version 12

HUGstage23

Version 12

- New module in compliance
- Folder view
- Continuous UI/UX improvements

- Focused on product consolidation
  - Processing fails in the service
  - Upload failed
  - Various bugs
- Corelated import/update features
- New lists

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Recent versions

11	10	9	8
Incoming mail support OAuth	Used Where Apply On Manufacturer Parts	Mail triggers Structure Compare Consolidated BOM	Export Improved process controls
Release date:2023-02-01	Release date:2022-09-14	Release date:2022-01-14	Release date:2020-06-23

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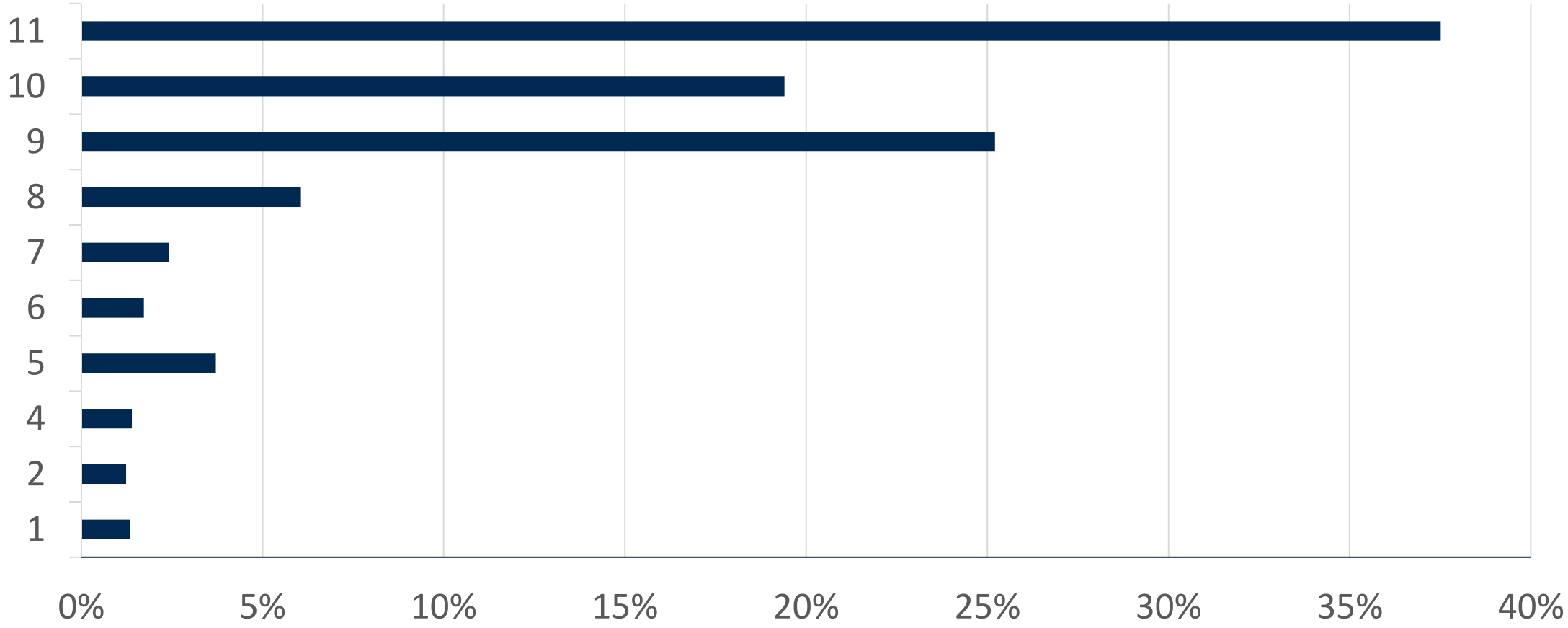
Release adoption



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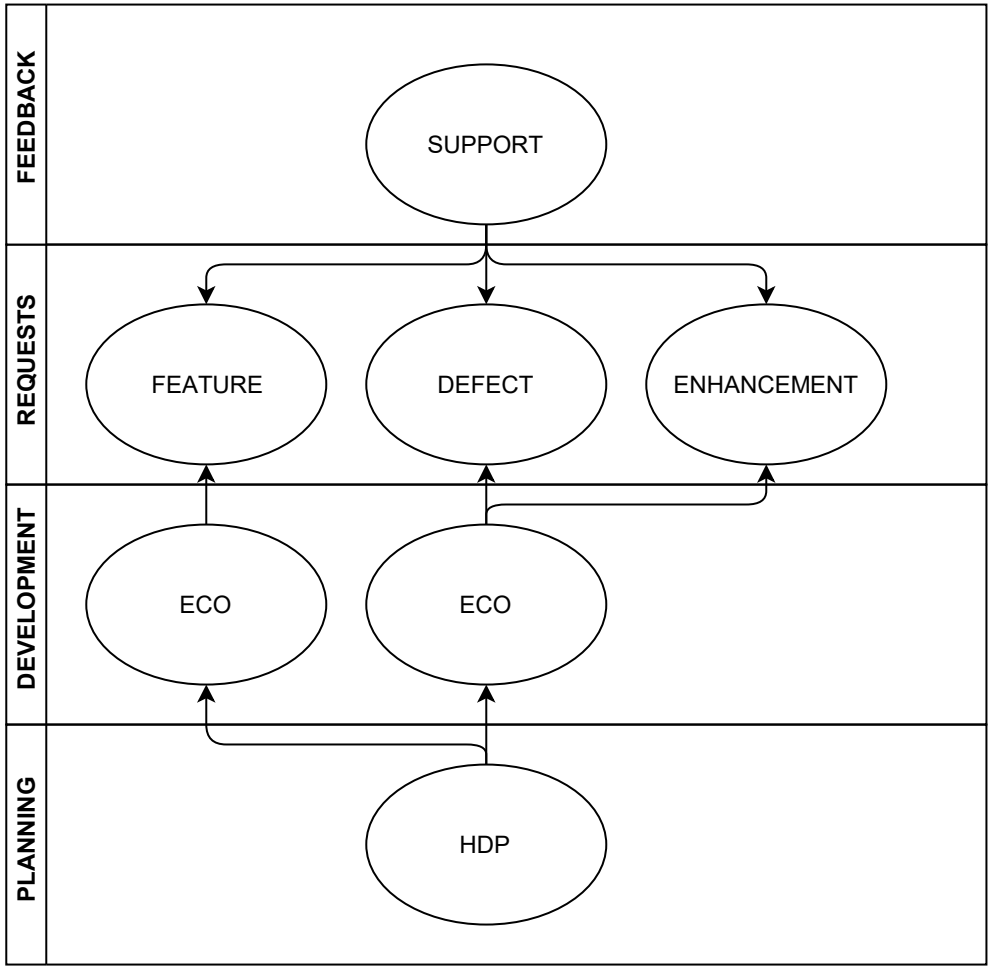
Development process



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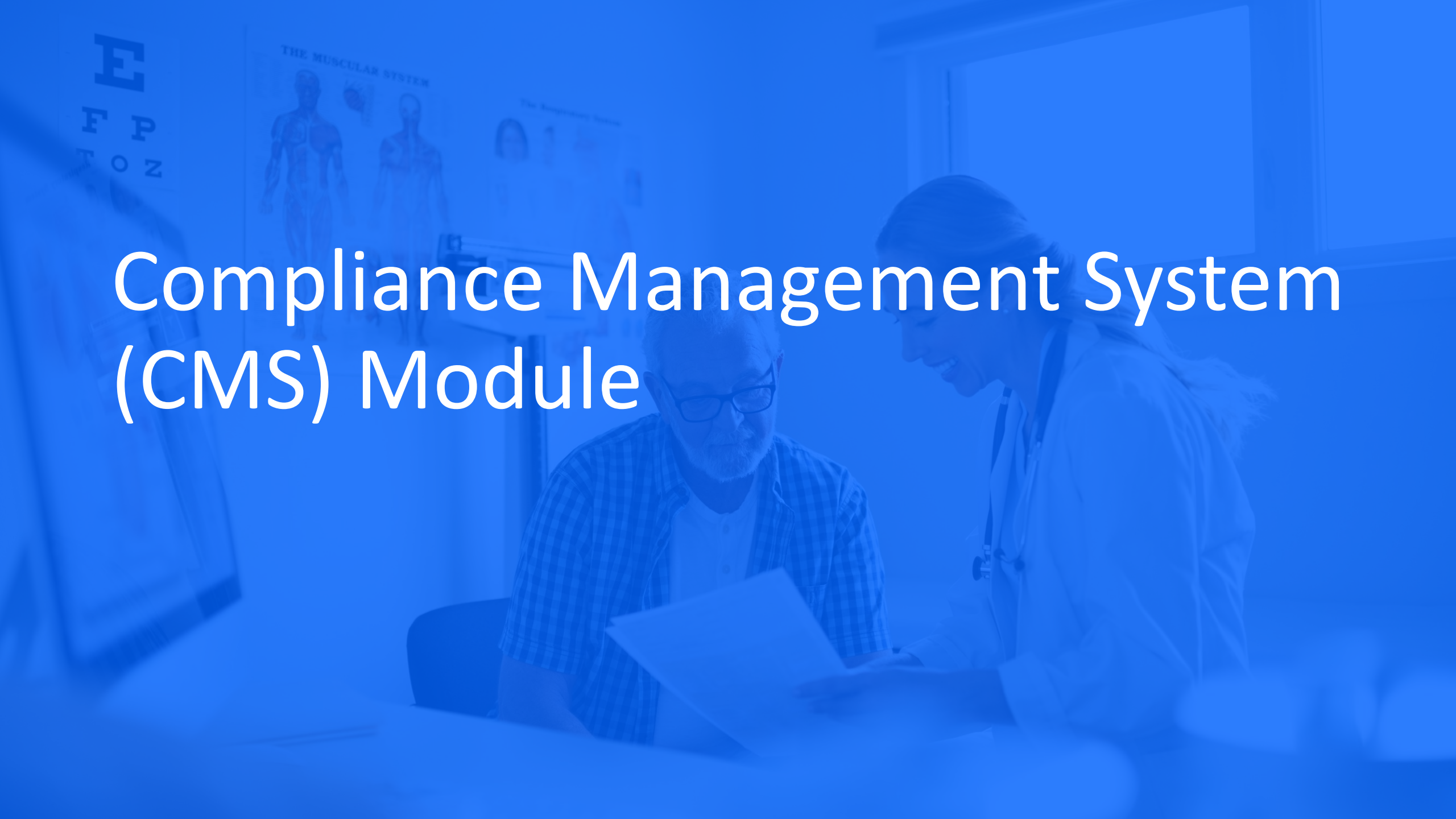
Your contribution

Features
42

Enhancements
139

Defects
99

TOTAL
280



Compliance Management System (CMS) Module

Introducing

Compliance Module

Keep records.
Ensure compliance.

Ensure compliance with structured records and reports as evidence.

Adhere to required laws and regulations.

Enables records and evidence of participation, completion and understanding of contents.

Onboarding

Product

Communication

Management

Regulatory

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Plans

A plan reflecting any number of **requirements** to be completed/fulfilled by assigned **subjects**.

Requirements

Individual requirements to be completed and fulfilled for each plan.

E.g. documents to be read and understood.

Records

Individual records to be completed by each individual subject.

Configurable process steps and contents to provide adequate evidence for completion.

History

Complete history records documenting completed **requirements** as well as **plans** for each user at any time.

HUGstage23

- **Plans**

Create any number of plans to reflect distinct competencies, courses, responsibilities or tasks.

- **Competency Requirements**

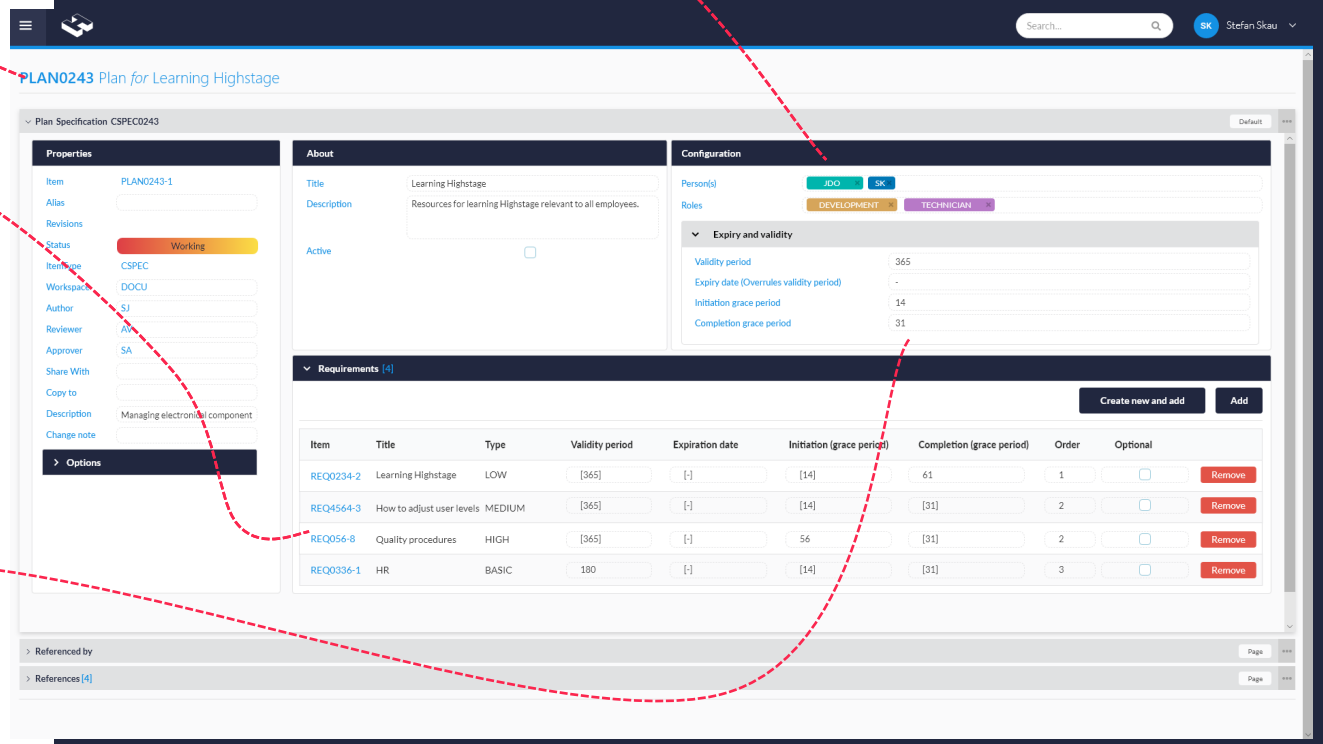
Assign materials and resources to be completed reflecting the skills and capabilities required for satisfying the competency needs.

- **Ressources**

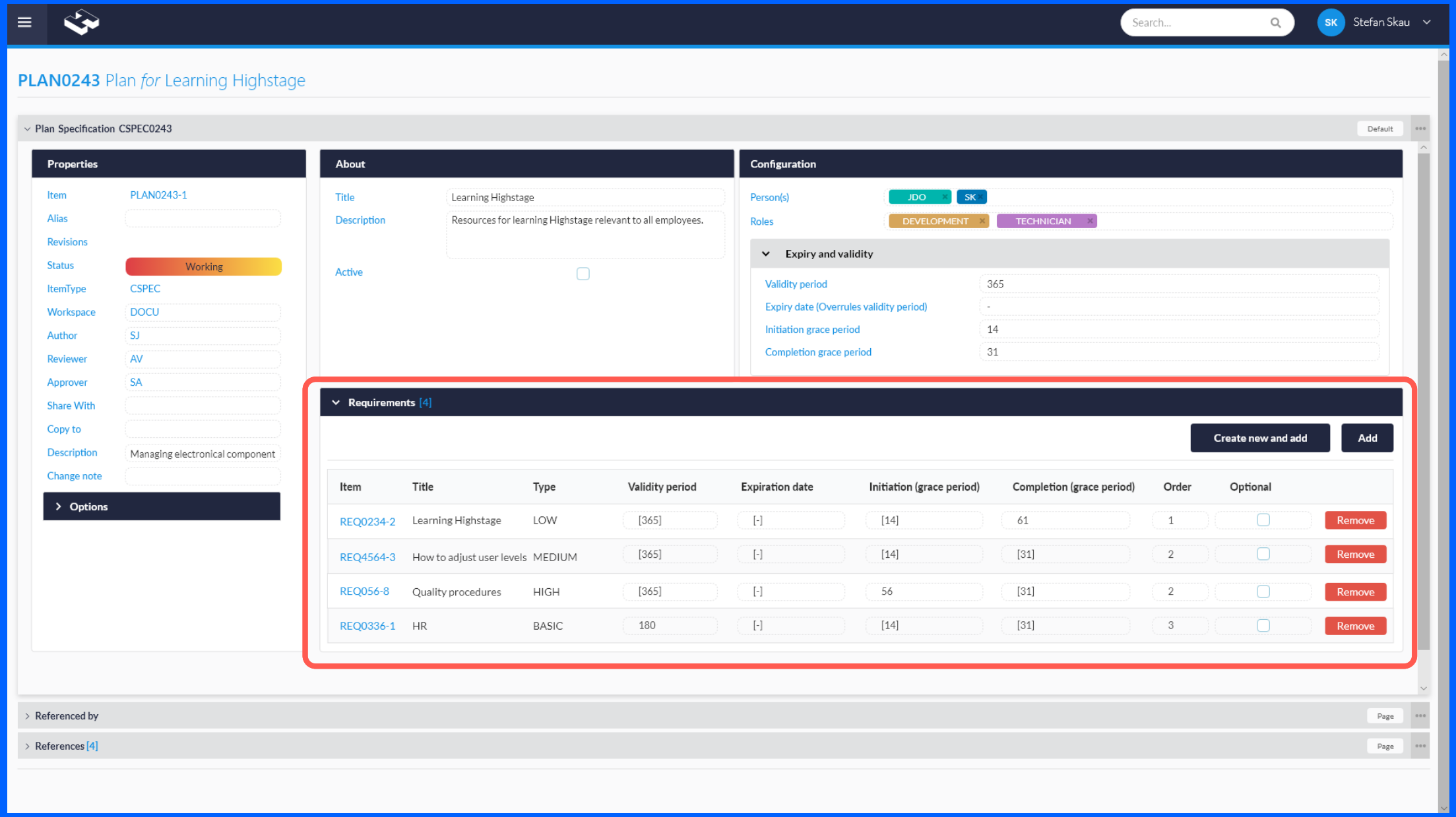
Assign specific users, groups, teams or roles to carry out the plan.

- **Compliance**

Assign expiration, due dates and validity periods to the plan or each individual requirement to ensure that competencies are continuously maintained and documented.



Plan.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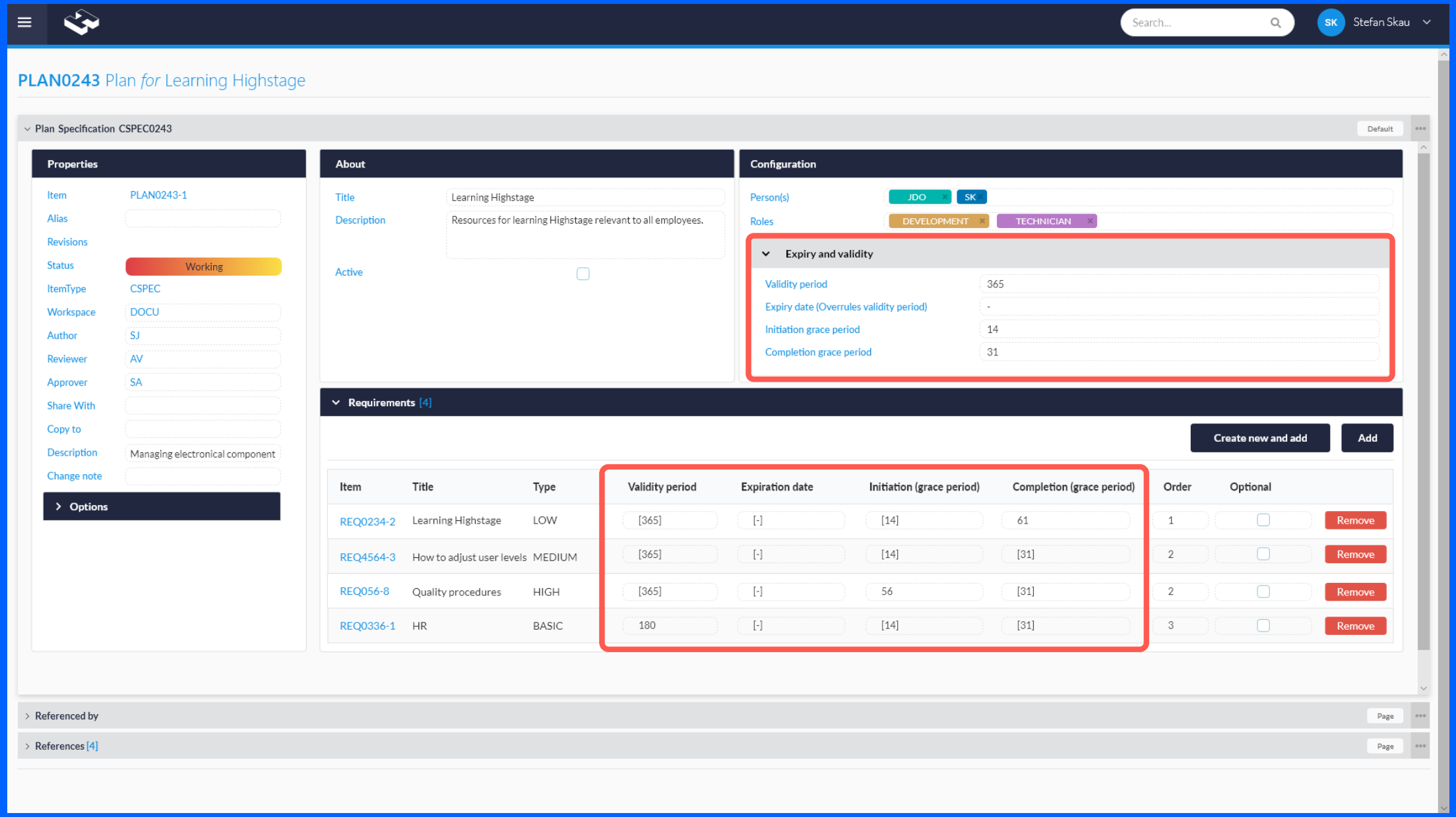
SK
Stefan Skau
PLAN0243 Plan for Learning Highstage
Plan Specification CSPEC0243
Default
Properties
Item PLAN0243-1
Alias
Revisions
Status Working
ItemType CSPEC
Workspace DOCU
Author SJ
Reviewer AV
Approver SA
Share With
Copy to
Description Managing electronical component
Change note
Options
About
Title Learning Highstage
Description Resources for learning Highstage relevant to all employees.
Active
Configuration
Person(s) JDO SK
Roles DEVELOPMENT TECHNICIAN
Expiry and validity
Validity period 365
Expiry date (Overrules validity period) -
Initiation grace period 14
Completion grace period 31
Requirements [4]
Create new and add
Add
Item Title Type Validity period Expiration date Initiation (grace period) Completion (grace period) Order Optional
REQ0234-2 Learning Highstage LOW [365] [-] [14] 61 1 Remove
REQ4564-3 How to adjust user levels MEDIUM [365] [-] [14] [31] 2 Remove
REQ056-8 Quality procedures HIGH [365] [-] 56 [31] 2 Remove
REQ0336-1 HR BASIC 180 [-] [14] [31] 3 Remove
Referenced by
Page
References [4]
Page

Plan.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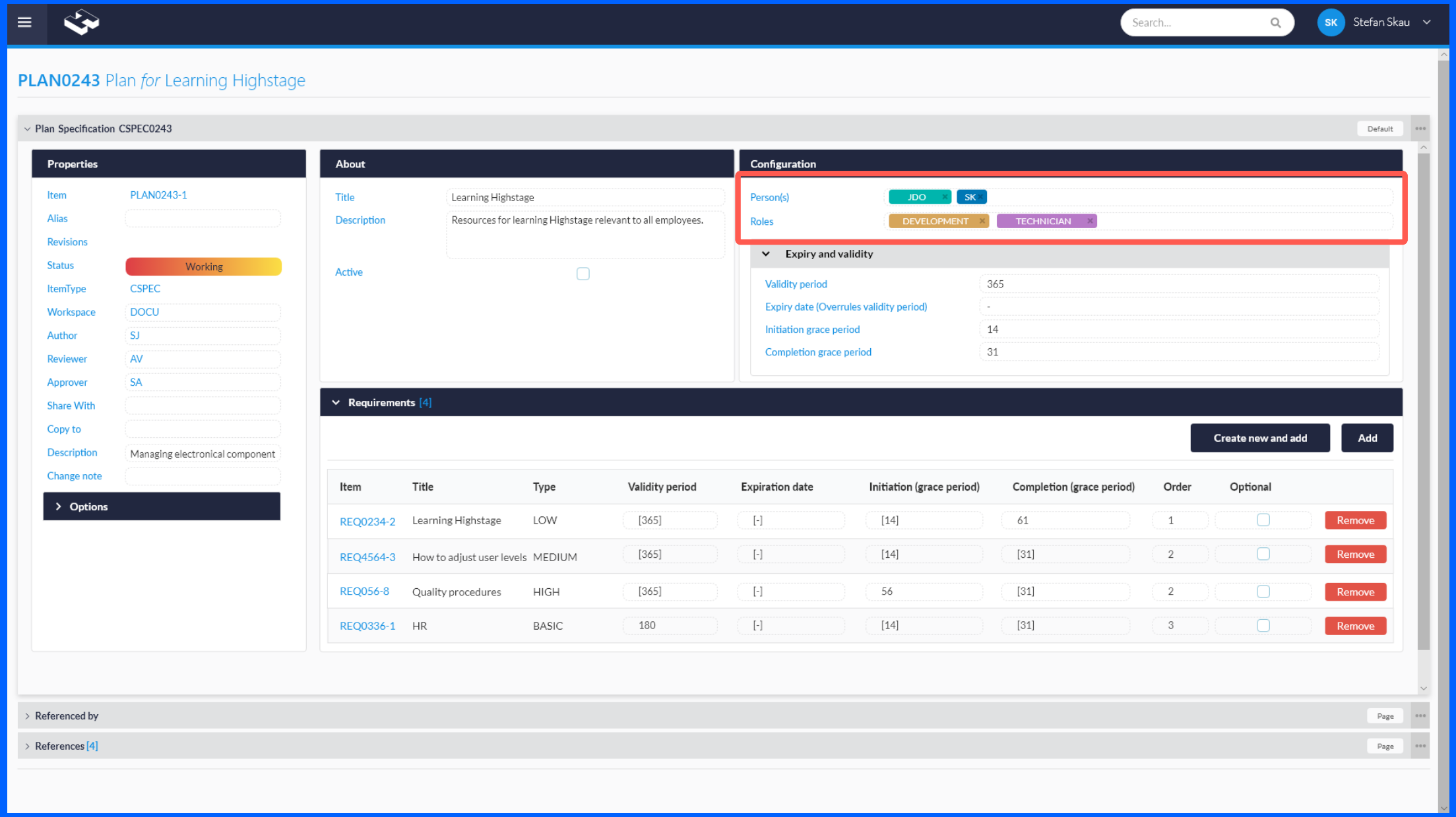
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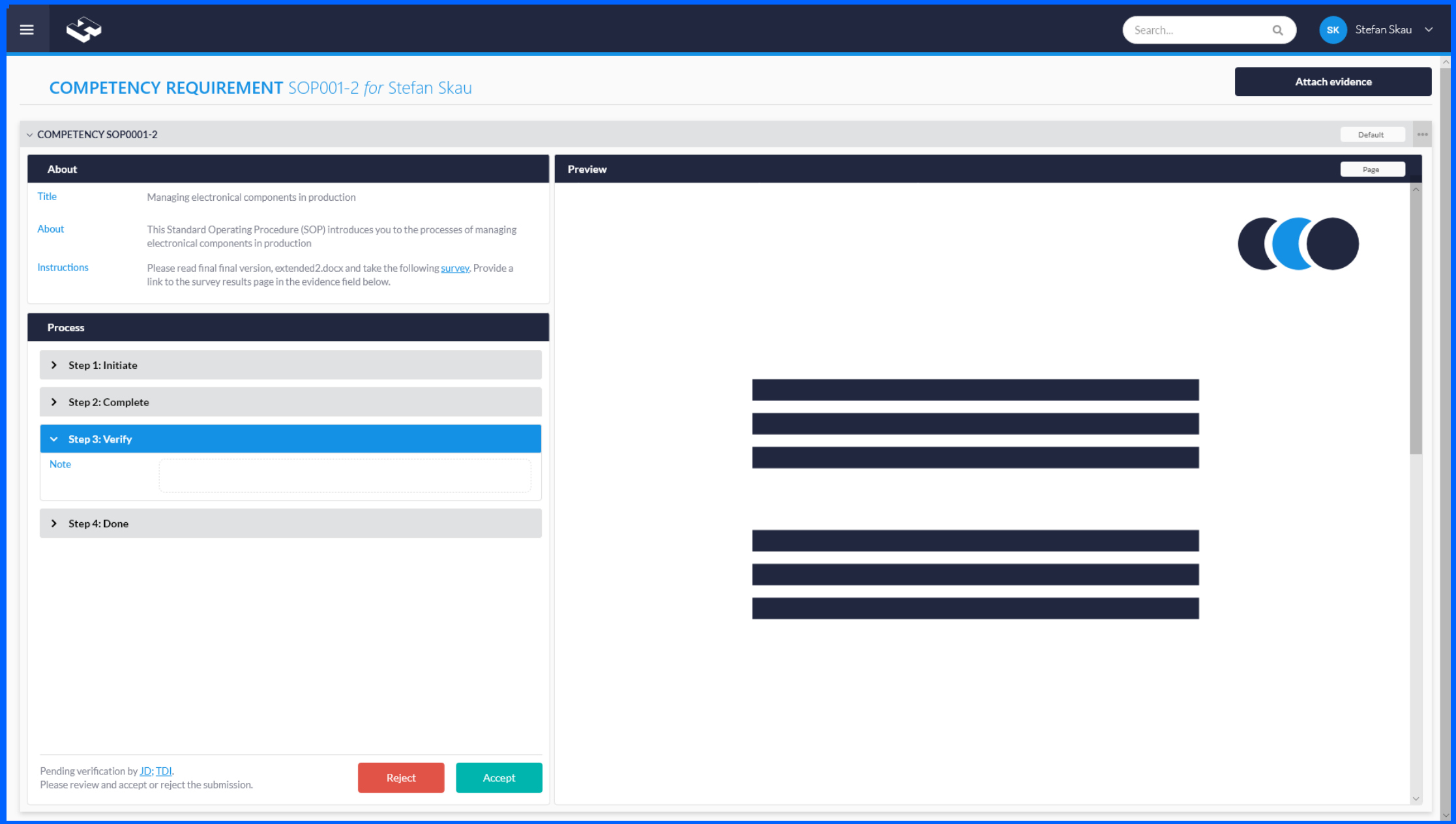
Page
References [4]
Page

Record.


Search...
SK
Stefan Skau
COMPETENCY REQUIREMENT SOP001-2 for Stefan Skau
Attach evidence
COMPETENCY SOP0001-2
Default
About
Title
Managing electronical components in production
About
This Standard Operating Procedure (SOP) introduces you to the processes of managing electronical components in production
Instructions
Please read final final version, extended2.docx and take the following survey. Provide a link to the survey results page in the evidence field below.
Process
Step 1: Initiate
Step 2: Complete
Step 3: Verify
Note
Step 4: Done
Pending verification by JD; TDI.
Please review and accept or reject the submission.
Reject
Accept
Preview
Page

History

Competency Records *for* Stefan Skau (SK)

Results

Item	Title	Assigned from	Status	Initiation date	Completion date	Expiry date	Initiate Competency Requirement
SOP001	Code of conduct	Production	Not initiated	-	-	-	Initiate
SOP002	Workshop instruction	Marketing	Not initiated	-	-	-	Initiate
WI34545	Customer satisfaction	Quality	In progress	01-03-2020	-	-	Initiate
SOP045	Electrical procedure	Procurement	Completed	02-04-2019	03-05-2019	01-03-2020	Initiate
WI4535	Concept development	Marketing coordinator	Outdated	03-05-2018	05-06-2019	-	Initiate
SOP5465	Build instruction	Marketing coordinator	Expired	01-05-2008	Build instruction	-	Initiate
WI4353	Installation	Domestic	Completed New version is available	-	Installation	-	Initiate
SOP4353	Installation	Domestic	Not initiated Initiation period has been exceeded				Initiate
SOP4553	Installation	Domestic	In progress Completion period has been exceeded				Initiate

	Title	Assigned from	Status	
COMP12345	Learning Highstage	Production	25% (1/4 completed)	Initiate all

Mails [2] Create Add Page

Referenced by [4] Page

References [5] Page

Early preview demonstration

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Upcoming changes and improvements

Email Summaries

Configurable email notifications for timely user notifications
(**call to action and summaries**)

From competencies to compliances

Be able to assign objects in addition to users as **subjects** for compliance (e.g. products, components, areas, locations etc.)

Requirements

Use documents with or without versions.

E.g. require users to read specific versions OR always the latest.

Matrices view

Configurable matrix view of history records.

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Mentimeter #4

Go to

www.menti.com

use the code

7101 4623

New UI

HUG 2023

Highstage - UI/UX

Proposed Improvements

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HUGstage23

Agenda

- Introduction
- Current UI/UX
- Goals for the new design
- New UI/UX components
- Key features
- Conclusion

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Introduction

Purpose:

Show case the proposed improvements made to the UI/UX

Objectives:

- Provide an overview of the current state
- Present the proposed changes of the UI/UX
- Obtain feedback and suggestions

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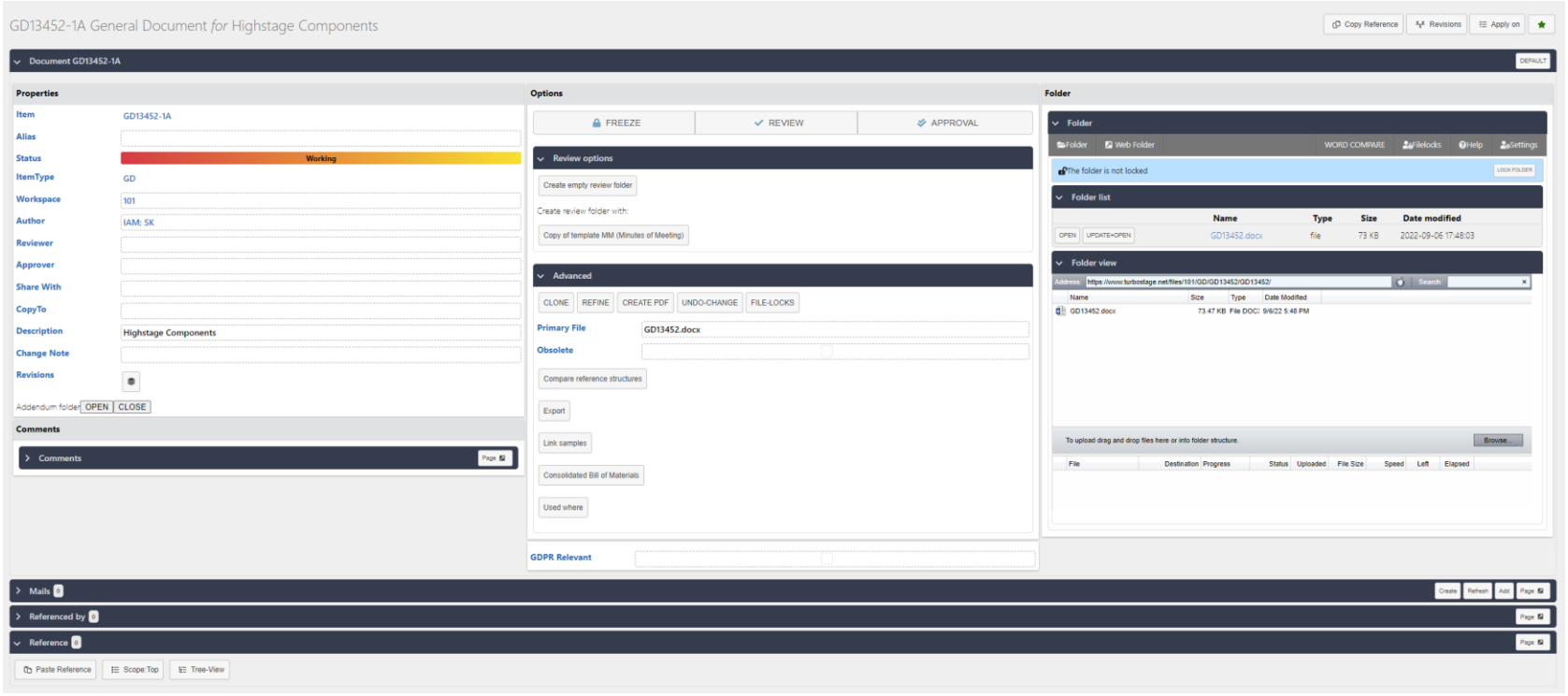
Current UI/UX

Item page – desktop version



Weakneses:

- Some sections may be redundant or unnecessary
- Difficulty in finding certain features and information
- Lack of consistency

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Current UI/UX

Weakneses:

- Poor mobile responsiveness and difficult navigation on smaller screens

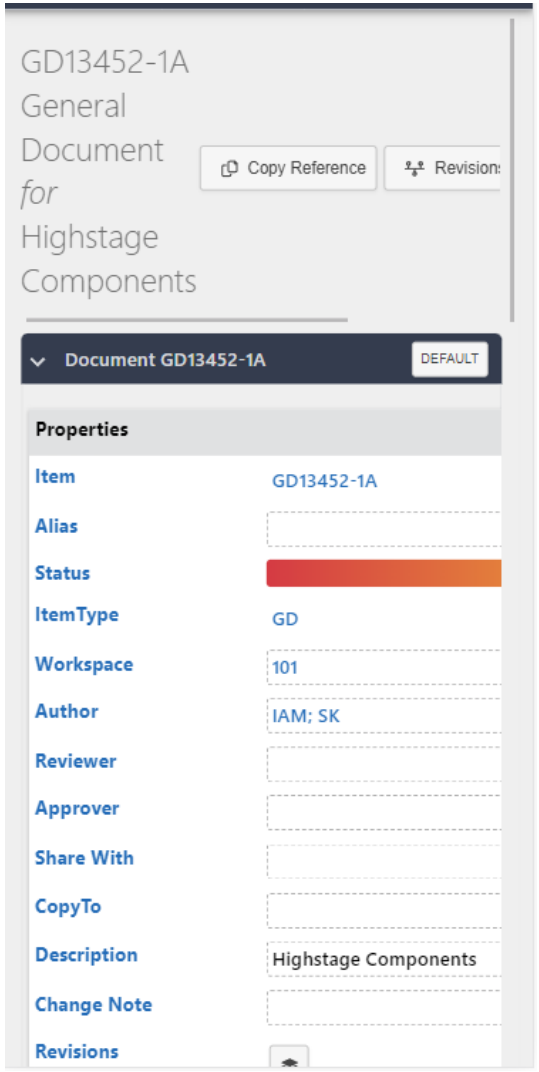

Figure 1.

Item page – mobile version

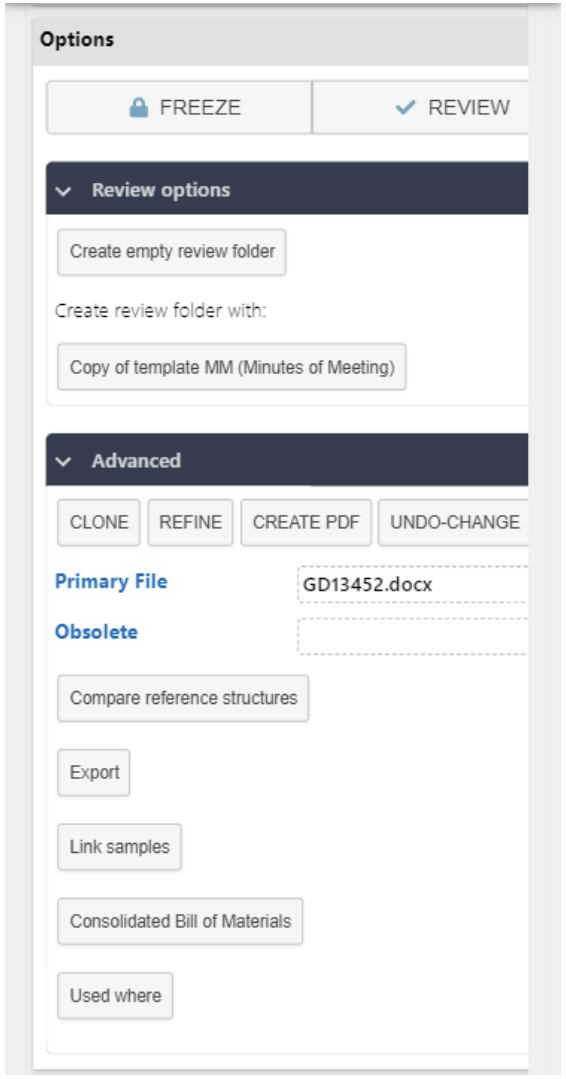

Figure 2.

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Goals for the new design

Goals:

- Improving usability by simplifying the interface and make it more intuitive for our users
- Enhance the overall look and feel to provide a more modern and visually appealing experience
- Replace sections with tabs to improve and simplify the navigation
- Align with the needs of our users to ensure a successful and user-frendly design

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New UI/UX

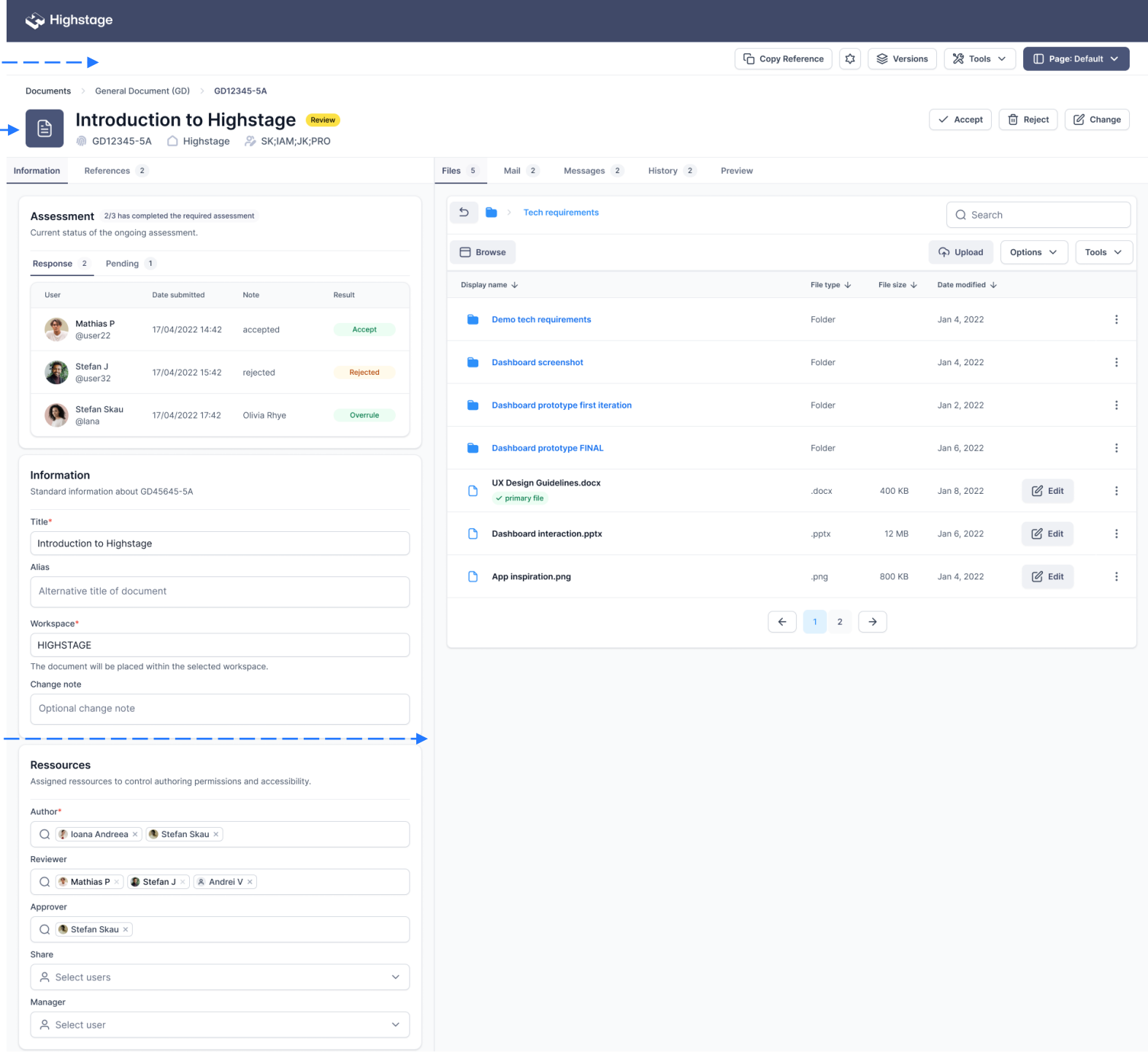
Improved usability and navigation by replacing the sections with tabs

Simplify interface by adding toolbars

Increased efficency by eliminating unnecessary steps

More modern and visual appearing

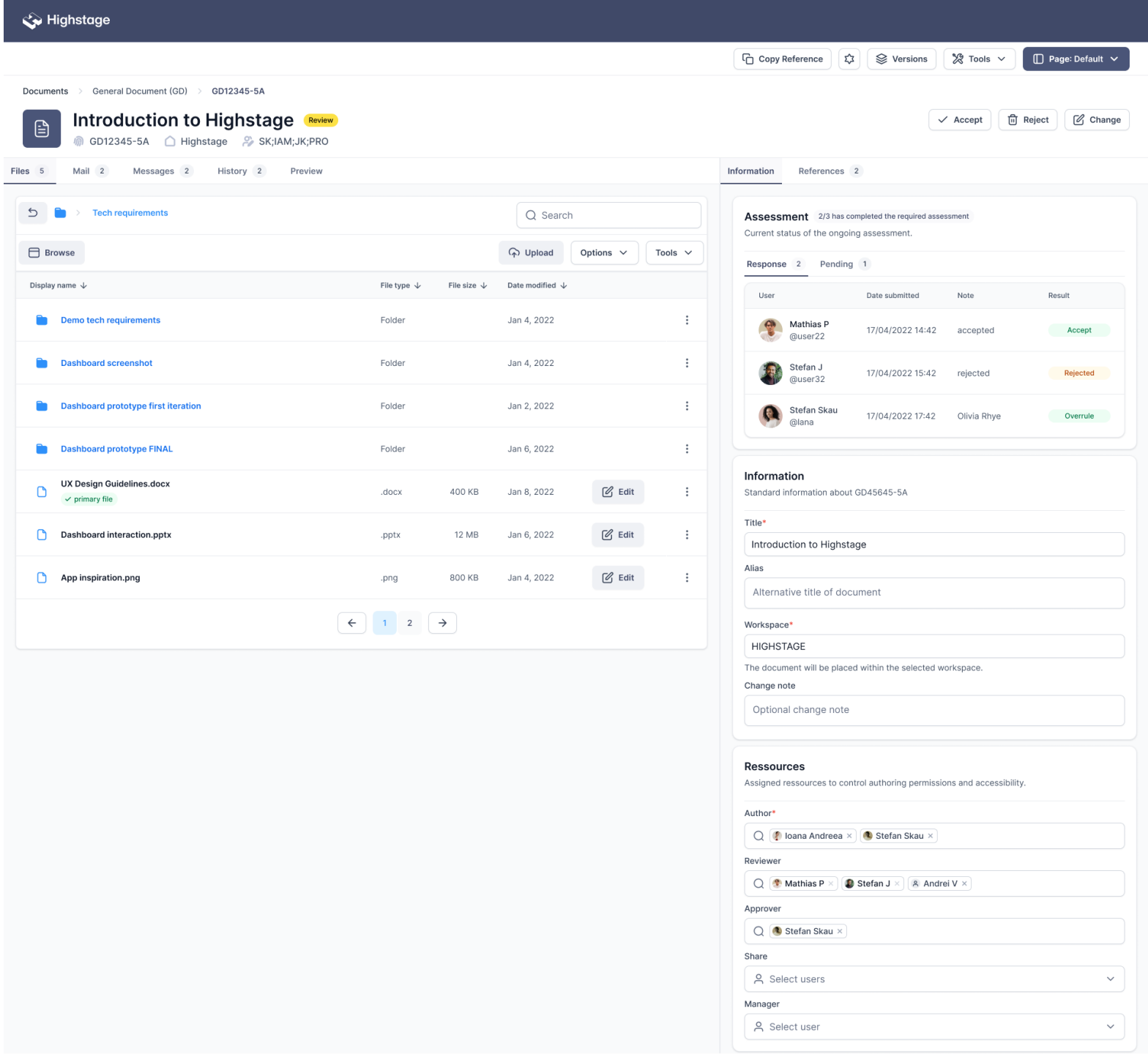
New draggable layout



HUGstage23

New UI/UX

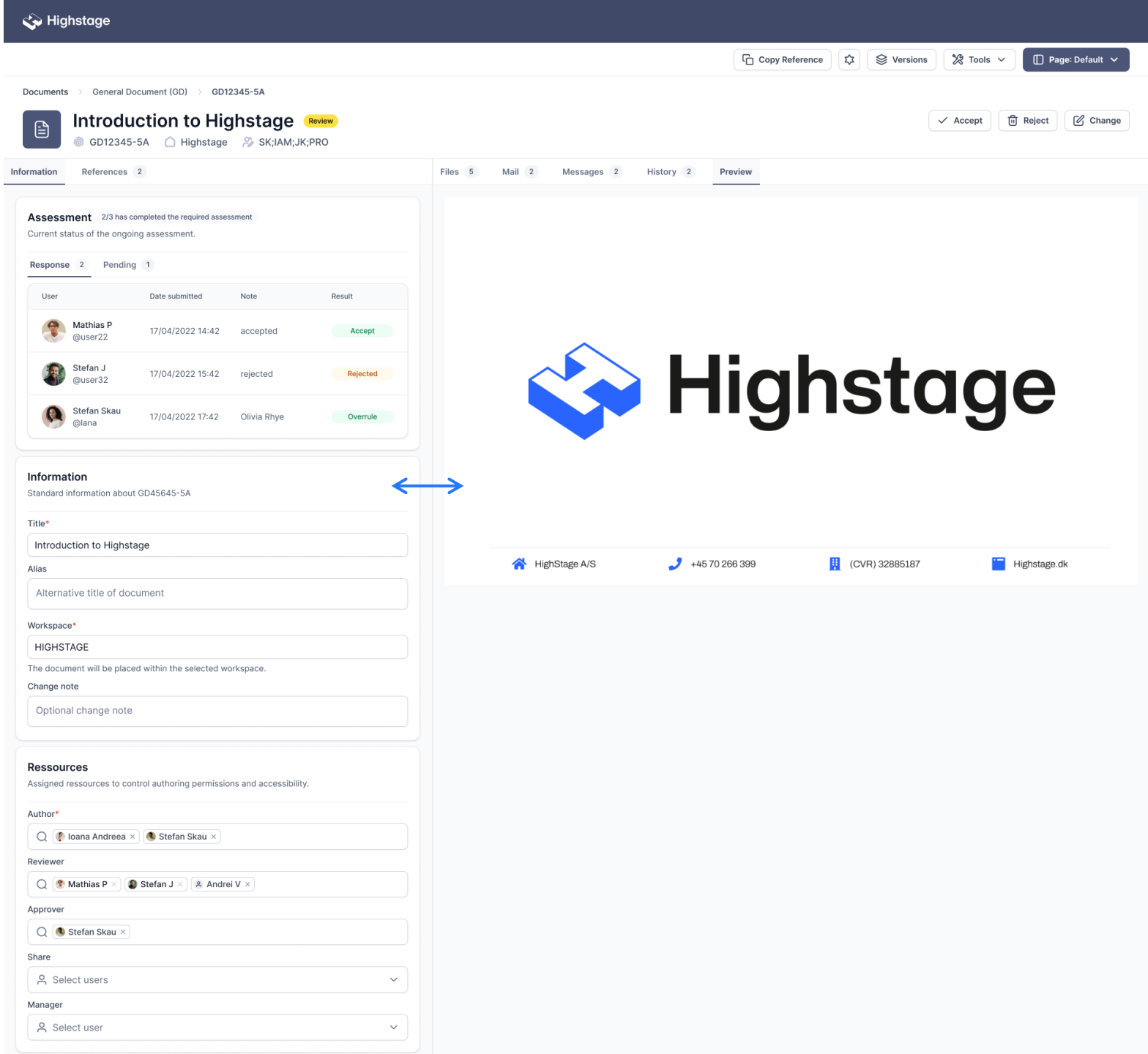
- Resize and arrange layout based on your needs



HUGstage23

New UI/UX

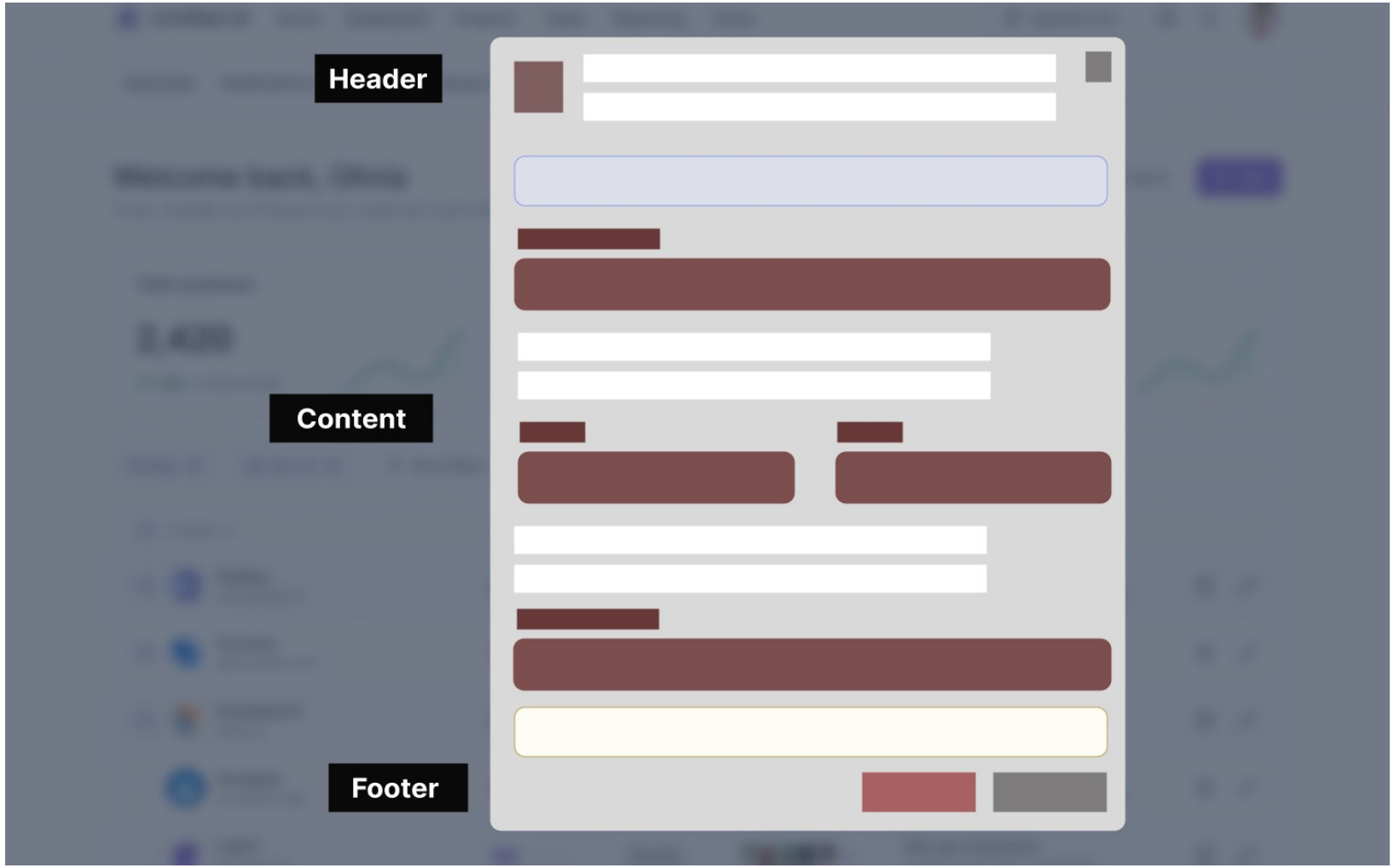
- Resize and arrange layout based on your needs



HUGstage23

New UI/UX

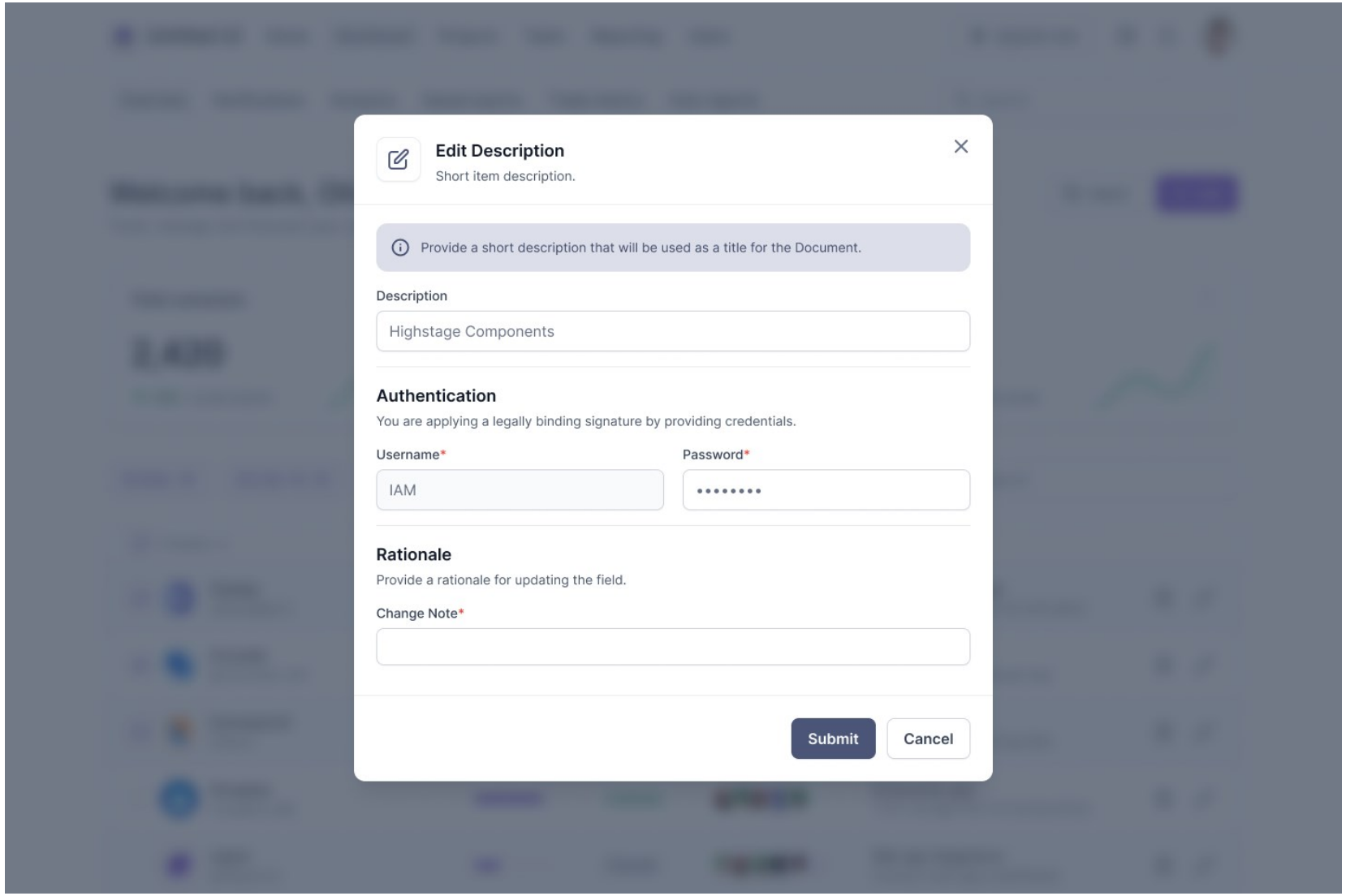
- Dialog/Modal structure



HUGstage23

New UI/UX

- More modern and visual appearing



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Key features

In the new design we have implemented several key features that aims to enhance the user experience and simplify navigation.

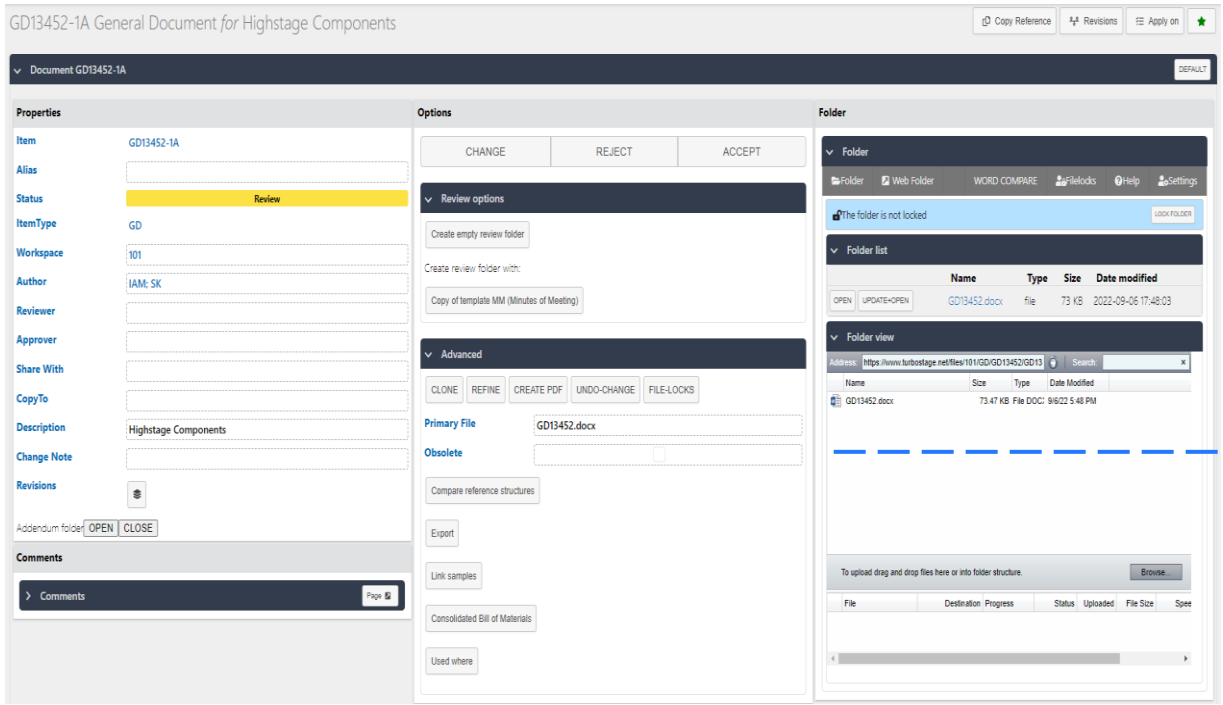
Simplify navigation

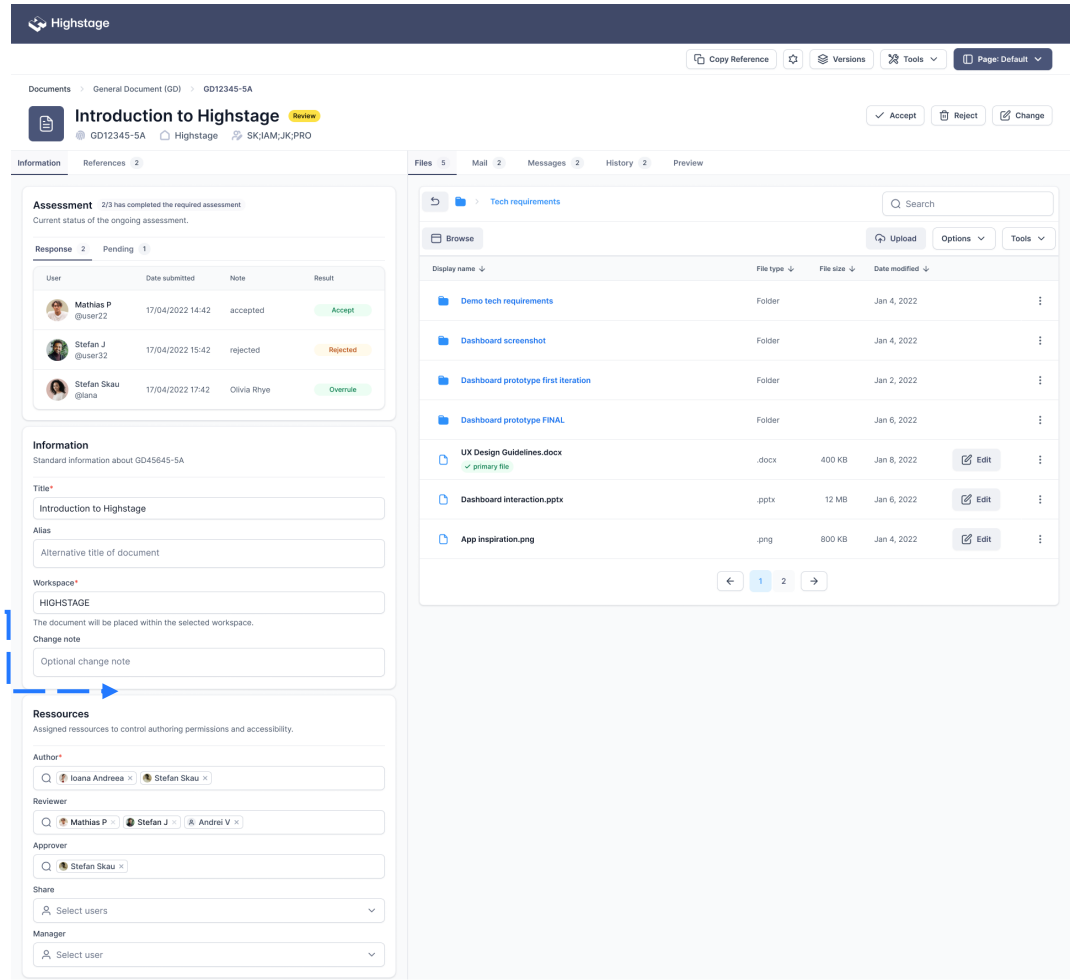
Draggable layout

Toolbars

Improve visual design

HUGstage23

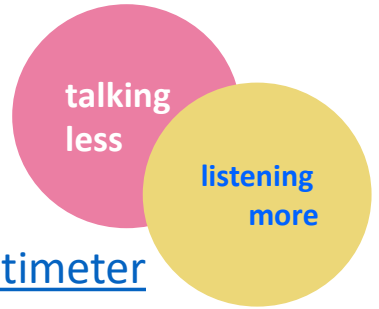

GD13452-1A General Document for Highstage Components
Copy Reference
Revisions
Apply on
Document GD13452-1A
DEFAULT
Properties
Item
GD13452-1A
Alias
Status
Review
ItemType
GD
Workspace
101
Author
IAM; SK
Reviewer
Approver
Share With
CopyTo
Description
Highstage Components
Change Note
Revisions
Addendum folder
OPEN
CLOSE
Comments
Comments
Page
Options
CHANGE
REJECT
ACCEPT
Review options
Create empty review folder
Create review folder with:
Copy of template MM (Minutes of Meeting)
Advanced
CLONE
REFINE
CREATE PDF
UNDO-CHANGE
FILE-LOCKS
Primary File
GD13452.docx
Obsolete
Compare reference structures
Export
Link samples
Consolidated Bill of Materials
Used where
Folder
Folder
Web Folder
WORD COMPARE
Filelocks
Help
Settings
The folder is not locked
LOCK FOLDER
Folder list
Name
Type
Size
Date modified
OPEN
UPDATE+OPEN
GD13452.docx
file
73 KB
2022-09-06 17:48:03
Folder view
Address:
https://www.turbostage.net/files/101/GD/GD13452/GD13
Search:
Name
Size
Type
Date Modified
GD13452.docx
73.47 KB
File DOC
9/6/22 5:48 PM
To upload drag and drop files here or into folder structure.
Browse...
File
Destination
Progress
Status
Uploaded
File Size


Highstage
Copy Reference
Versions
Tools
Page: Default
Documents
General Document (GD)
GD12345-5A
Introduction to Highstage
Review
GD12345-5A
Highstage
SK;IAM;JK;PRO
Accept
Reject
Change
Information
References 2
Files 5
Mail 2
Messages 2
History 2
Preview
Assessment
2/3 has completed the required assessment
Current status of the ongoing assessment.
Response 2
Pending 1
User
Date submitted
Note
Result
Mathias P
@user22
17/04/2022 14:42
accepted
Accept
Stefan J
@user32
17/04/2022 15:42
rejected
Rejected
Stefan Skau
@lana
17/04/2022 17:42
Olivia Rhye
Overrule
Information
Standard information about GD45645-5A
Title*
Introduction to Highstage
Alias
Alternative title of document
Workspace*
HIGHSTAGE
The document will be placed within the selected workspace.
Change note
Optional change note
Ressources
Assigned ressources to control authoring permissions and accessibility.
Author*
Ioana Andreea
Stefan Skau
Reviewer
Mathias P
Stefan J
Andrei V
Approver
Stefan Skau
Share
Select users
Manager
Select user
Tech requirements
Search
Browse
Upload
Options
Tools
Display name
File type
File size
Date modified
Demo tech requirements
Folder
Jan 4, 2022
Dashboard screenshot
Folder
Jan 4, 2022
Dashboard prototype first iteration
Folder
Jan 2, 2022
Dashboard prototype FINAL
Folder
Jan 6, 2022
UX Design Guidelines.docx
primary file
.docx
400 KB
Jan 8, 2022
Edit
Dashboard interaction.pptx
.pptx
12 MB
Jan 6, 2022
Edit
App inspiration.png
.png
800 KB
Jan 4, 2022
Edit
1
2

HUGstage23

Conclusion

We welcome any feedback and suggestions you may have!



Mentimeter

HUGstage23

Mentimeter #5-9

Go to

www.menti.com

use the code

7101 4623

New Folder View

New Folder View

See separate video here

LUNCH

General presentation of Highstage

A life after Highstage: Being a retired Highstage expert

Per Helge Rahbæk

Manufacturing, Devices and a barcode scanner

Brian Axbøg, Recab

Recab

Device Module for serial numbers

Cannot be shared, as it contains real data. Contact us if you want more info

Brian Axbøg

Rene Hvid

SolidWorks integration(s)

Sven Andersen, Bengt Dahlborg

General presentation of Highstage

HUGstage23

Variants

- **SolidWorks** CAD/PDM
  - SolidWorks AddIn for export and Highstage import plugin
- **SolidWorks** CAD using Highstage as vault (Prototype)
  - SolidWorks AddIn
- **SpaceClaim** CAD using Highstage as vault (Prototype)
  - SpaceClaim AddIn
- **Autodesk** Vault. NTI export and Highstage import.

SolidWorks Integration

Separate videos will be shared later

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Mentimeter #10

Go to

www.menti.com

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KAGE!!!

Feature focus:
The new Import functionality

HUGstage23

Agenda

- Current Import
- New Import
- Future Features

Current Import

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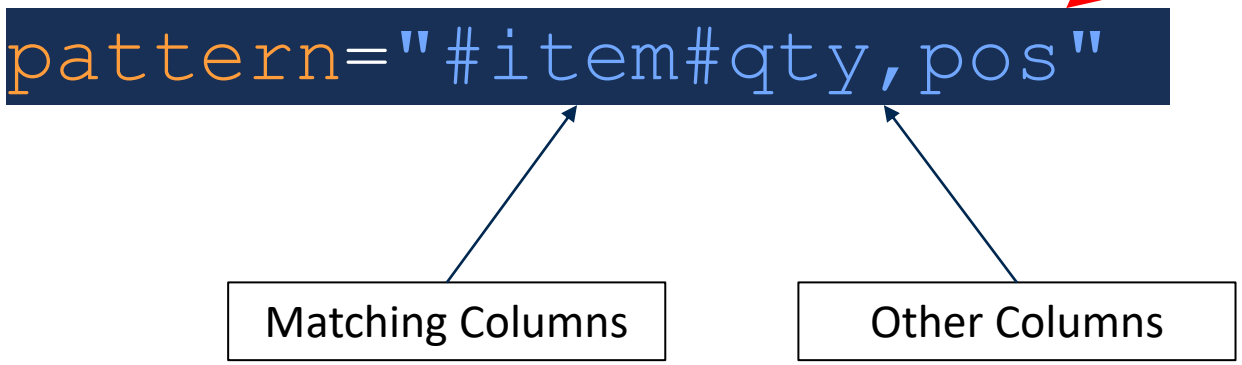
Current Import - Refs

- Input parsed using the pattern

```
<type name="part">
        <import-ref
                name="default"
                title="Reference Import"
                pattern="#item#qty,pos"
                basetype="part"
                clear-on-import="1"
                subtypes="*"
                file-pattern="*.xlsx"
                ignore-headers="0"
                create="1"
                aggregate="0" />
</type>
```



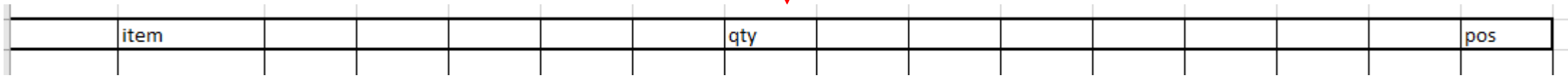
HUGstage23

Current Import - Refs

- Input parsed using the pattern
- Pattern does not work well for spreadsheets with many columns
- Matching columns must come before other columns

```
<type name="part">
            <import-ref
                        name="default"
                        title="Reference Import"
                        pattern="#item#qty,pos"
                        basetype="part"
                        clear-on-import="1"
                        subtypes="*"
                        file-pattern="*.xlsx"
                        ignore-headers="0”
                        create="1"
                        aggregate="0” />
</type>
```

```
pattern="#,item,,,,,#,qty,,,,,,,,,pos,,,"
```



HUGstage23

Current Import - Refs

- Input parsed using the pattern
- Pattern does not work well for spreadsheets with many columns
- Matching columns must come before other columns
- Can not update existing refs

```
<type name="part">
            <import-ref
                        name="default"
                        title="Reference Import"
                        pattern="#item#qty,pos"
                        basetype="part"
                        clear-on-import="1"
                        subtypes="*"
                        file-pattern="*.xlsx"
                        ignore-headers="0”
                        create="1"
                        aggregate="0” />
</type>
```

HUGstage23

Current Import - Items

- Different pattern system

```
<type name="part">
            <data-import
                        name="default"
                        title="Data Import"
                        ignore-headers="0"
                        matching="{[item=1]}"
                        creating="{[type=4],[workspace=5],[description=6]}"
                        updating="{[note=2],[usestatus=3]}"
                        basetype="part"
                        subtypes="*"
                        create="1"
                        file-pattern="DataImport.xlsx" />
</type>
```

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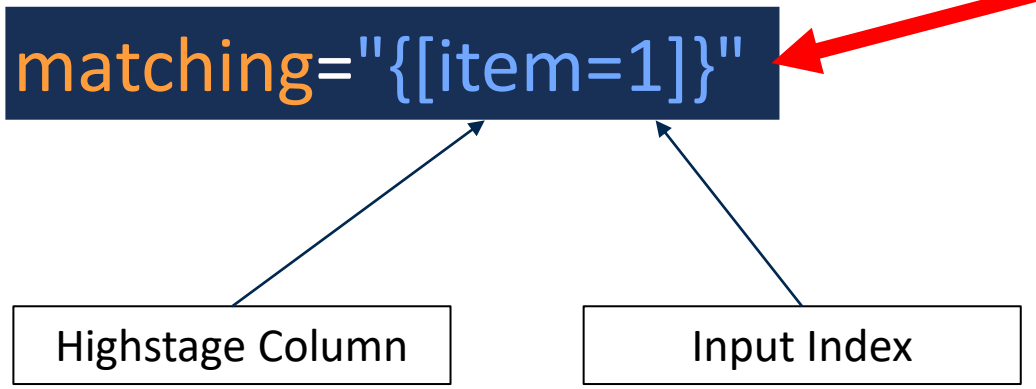
Current Import - Items

- Different pattern system
- Matching:
  - Find any items in Highstage that matches the columns in the input

```
<type name="part">
            <data-import
                        name="default"
                        title="Data Import"
                        ignore-headers="0"
                        matching="{[item=1]}"
                        creating="{[type=4],[workspace=5],[description=6]}"
                        updating="{[note=2],[usestatus=3]}"
                        basetype="part"
                        subtypes="*"
                        create="1"
                        file-pattern="DataImport.xlsx" />
</type>
```



HUGstage23

Current Import - Items

- Different pattern system
- Creating:
  - If new items are created, use these values

```
<type name="part">
            <data-import
                        name="default"
                        title="Data Import"
                        ignore-headers="0"
                        matching="{[item=1]}"
                        creating="{[type=4],[workspace=5],[description=6]}"
                        updating="{[note=2],[uses status=3]}"
                        basetype="part"
                        subtypes="*"
                        create="1"
                        file-pattern="DataImport.xlsx" />
</type>
```

```
creating="{[type=4],[workspace=5],[description=6]}"
```

HUGstage23

Current Import - Items

- Different pattern system
- Updating:
  - All matched items,
    will have these values updated

```
<type name="part">
            <data-import
                        name="default"
                        title="Data Import"
                        ignore-headers="0"
                        matching="{[item=1]}"
                        updating="{[note=2],[usestatus=3]}"
                        subtypes="*"
                        create="1"
                        file-pattern="DataImport.xlsx" />
</type>
```

```
updating="{[note=2],[usestatus=3]}"
```

New Import

New Import

- Combined profile

```
<import
        name="Import Item Update Test"
        title="Import Item Update Test"
        importtype="item"
        ignore-headers="1"
        matching="{[item='item']}"
        updating="{[description='description']}"
        creating="{[itemtype='type'],[workspace='workspace'],[description='description']}"
        basetype="part"
        subtypes="PAR"
        create="0"
        file-pattern="*.xlsx"
/>
```

HUGstage23

New Import

- Combined profile
- Input parsing from item is used, can both use column index or column name

```
<import
            name="Import Item Update Test"
            title="Import Item Update Test"
            importtype="item"
            ignore-headers="1"
            matching="{[item='item']}"
            updating="{[description='description']}"
            creating="{[itemtype='type'],[workspace='workspace'],[description='description']}"
            subtypes="PAR"
            create="0"
            file-pattern="*.xlsx"
/>
```

```
updating="{[description='description']}"
```

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New Import

- Combined profile
- Input parsing from item is used, can both use column index or column name
- Extendable for new input sources
  By using the code put into the TS library new data sources can be added, an example being a database instead of a csv- or spreadsheet file.

```
<import
            name="Import Item Update Test"
            title="Import Item Update Test"
            importtype="item"
            ignore-headers="1"
            matching="{[item='item']}"
            updating="{[description='description']}"
            creating="{[itemtype='type'],[workspace='workspace'],[description='description']}"
            basetype="part"
            subtypes="PAR"
            create="0"
            file-pattern="*.xlsx"
/>
```

Future Features*

* No prioritized order, no promises of delivery date

Future Features

- Runtime optimizations
- Update references instead of deleting all references and create new ones
- Button to ”Create all” instead of one button for each non-matched row
- Expand trustee usage and security for the import feature
- Update all matched items, so one row can update multiple items
- Be able to update reference columns while updating items

Questions?

Feature focus: Updated List functionality

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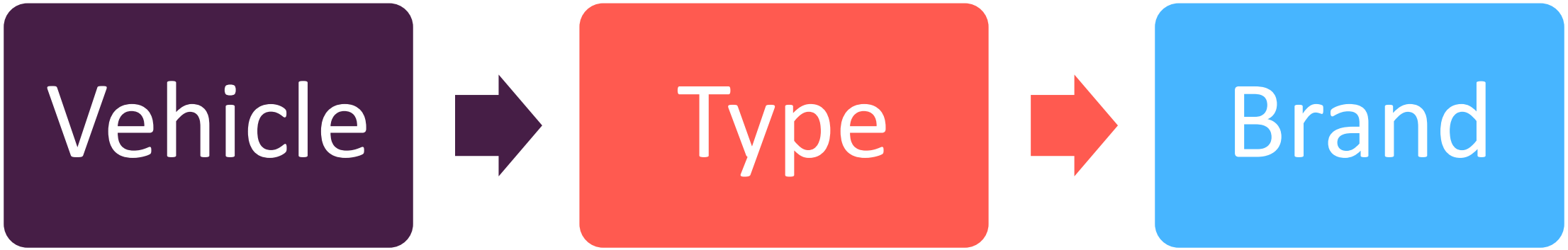
Agenda

- Why do we need a new List
- Creating new List items
- Configuration
- Using new list items

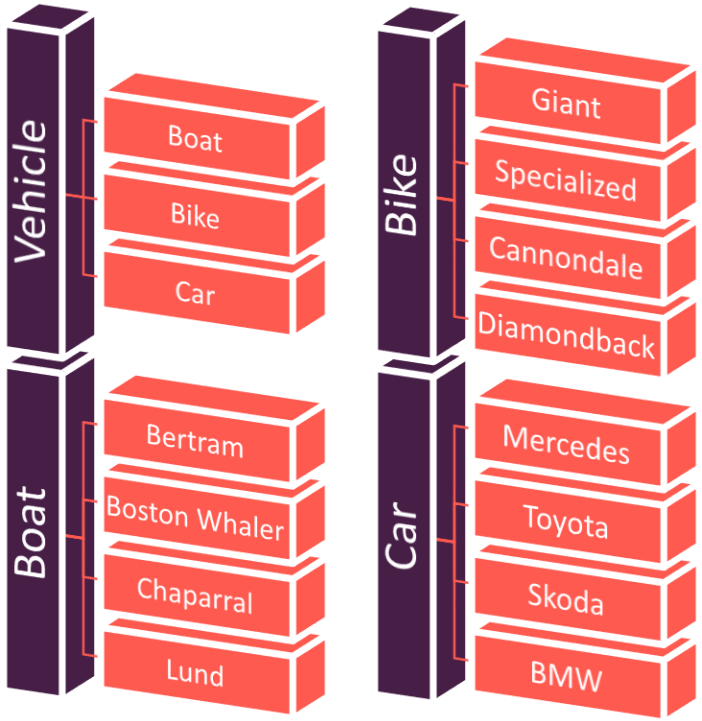
Why List 2.0?

Why List 2.0?



HUGstage23

Why List 2.0?



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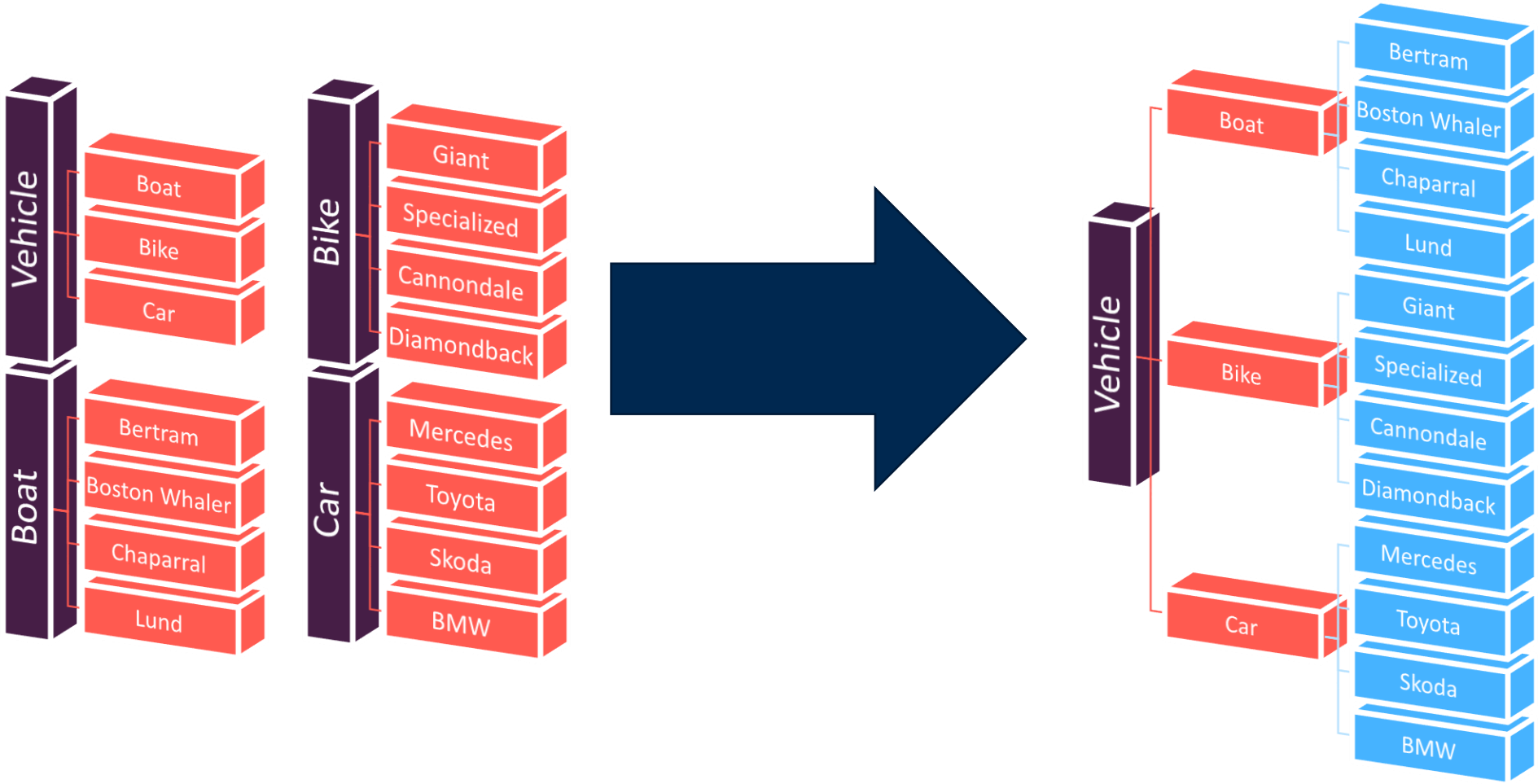
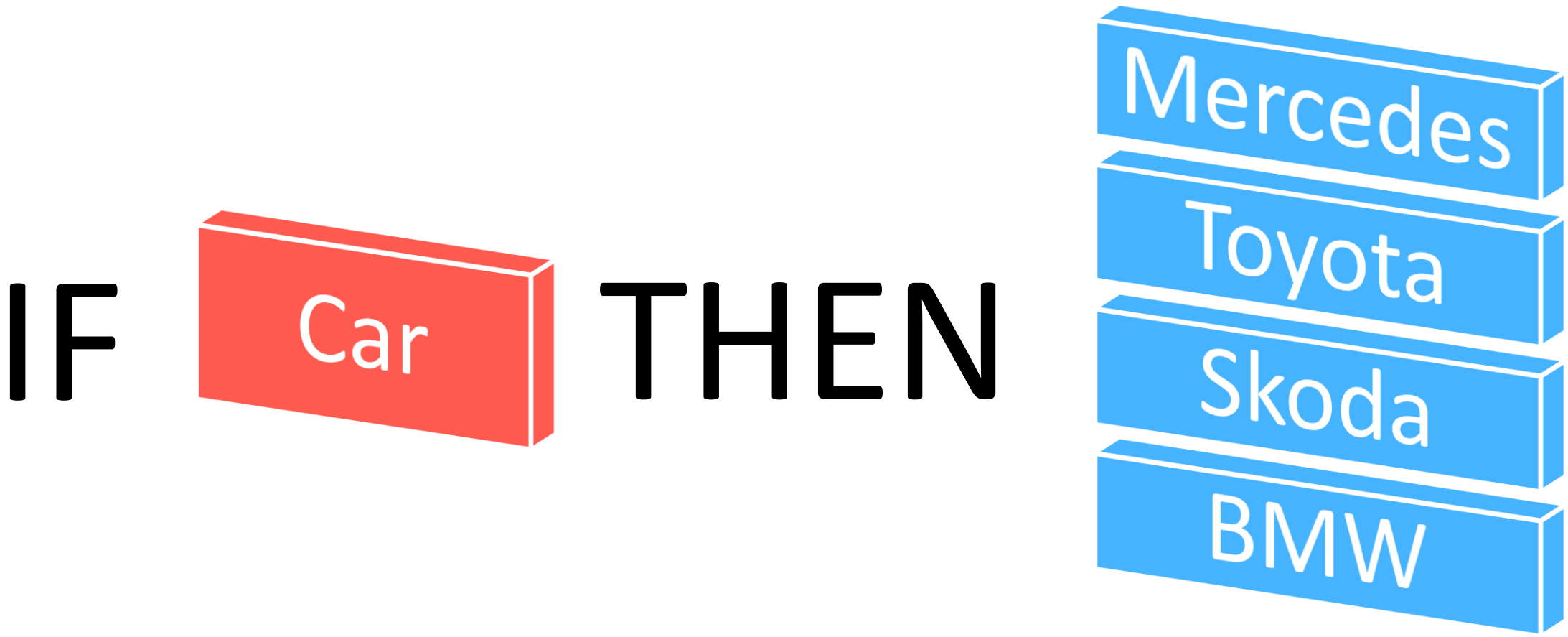
Why List 2.0?



HUGstage23

Why List 2.0?



Creating new List items

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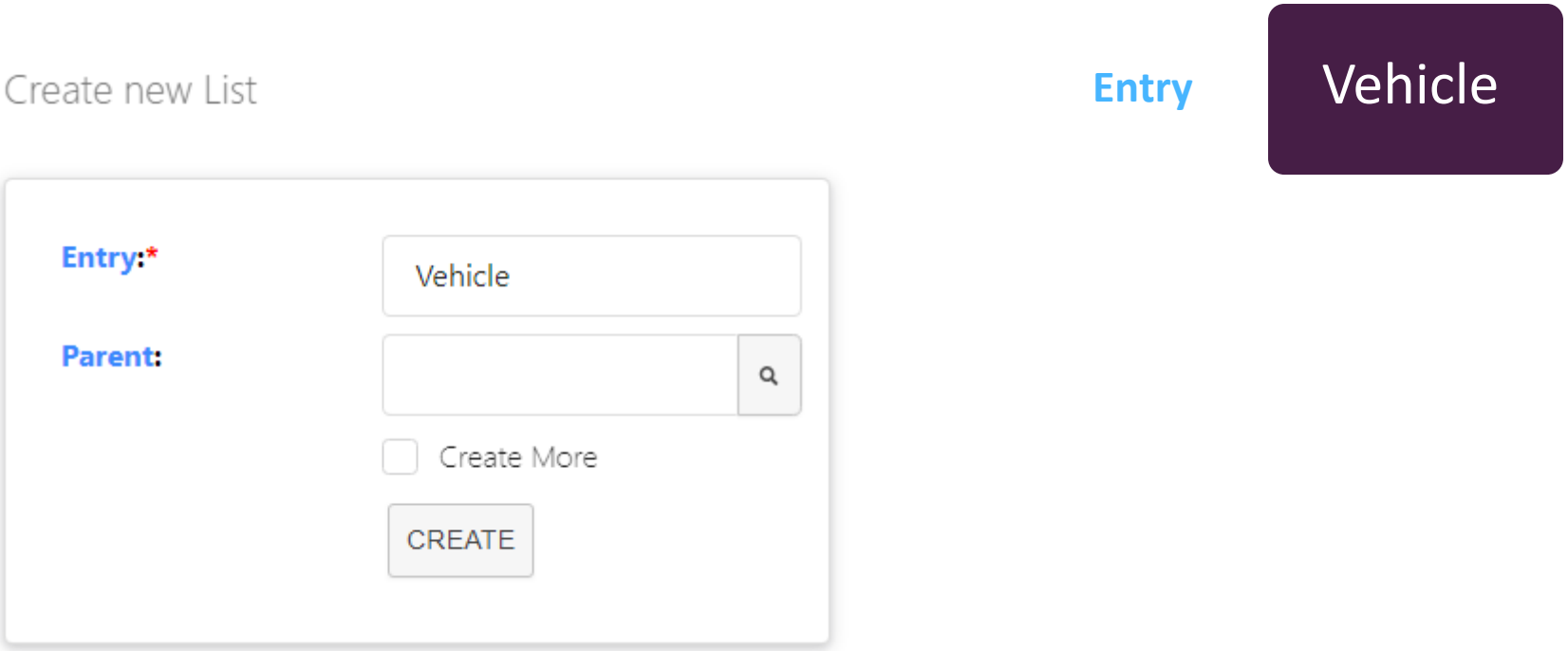
Creating new List items



Entry

Vehicle

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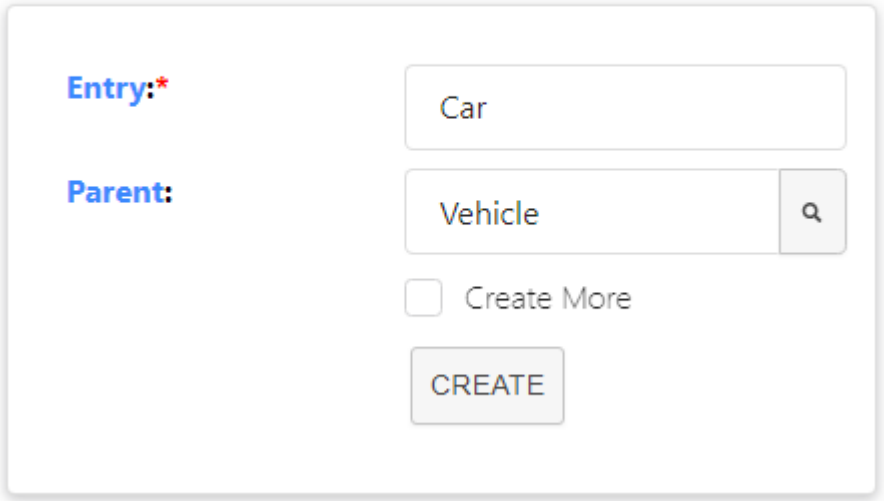
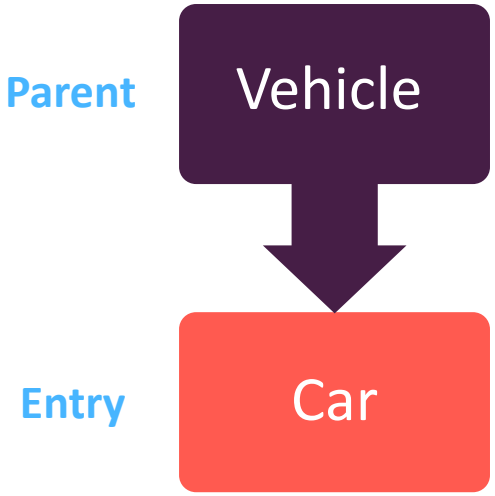
Creating new List items





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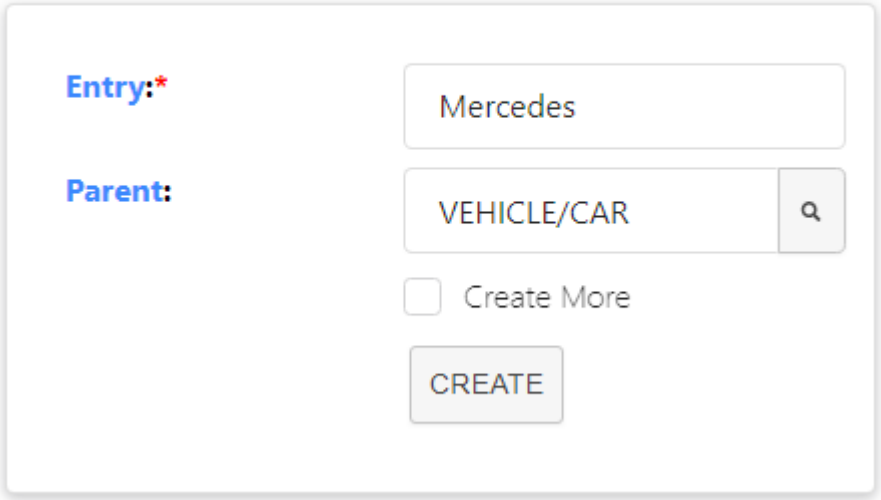
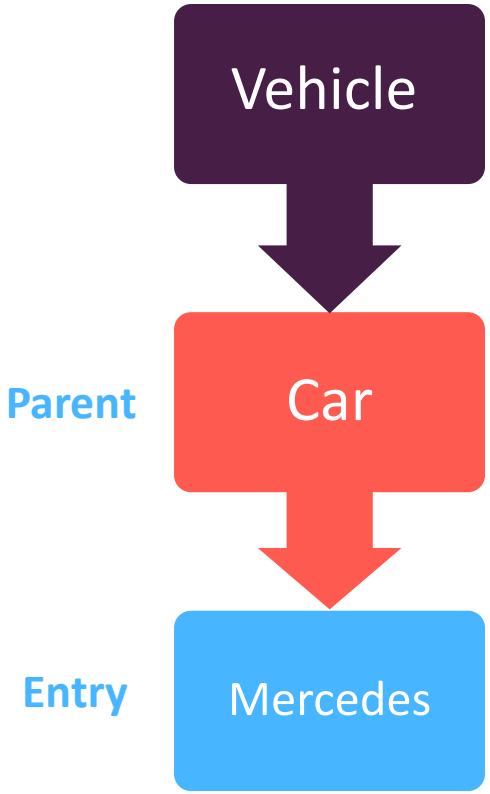
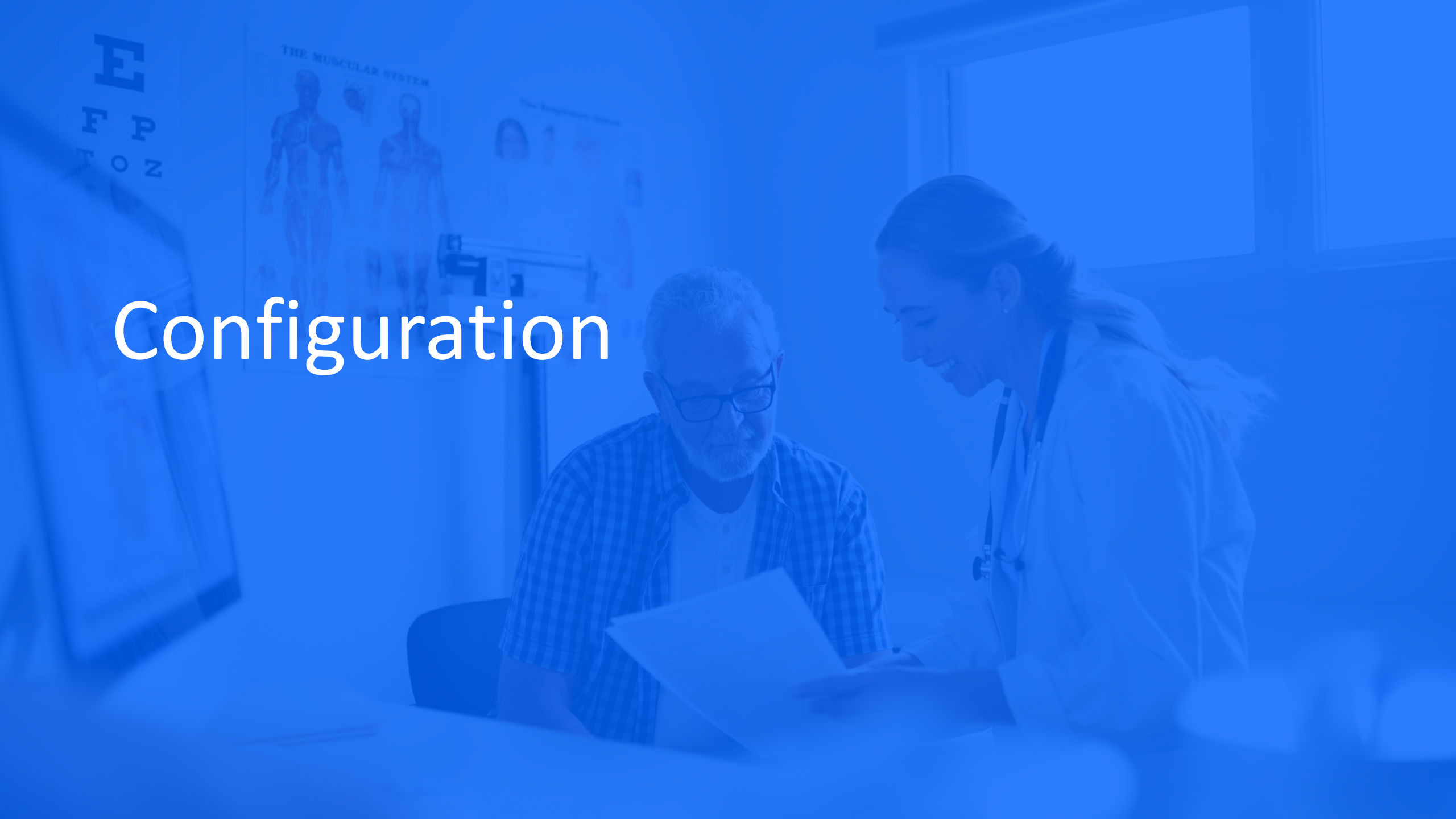
Creating new List items





Configuration



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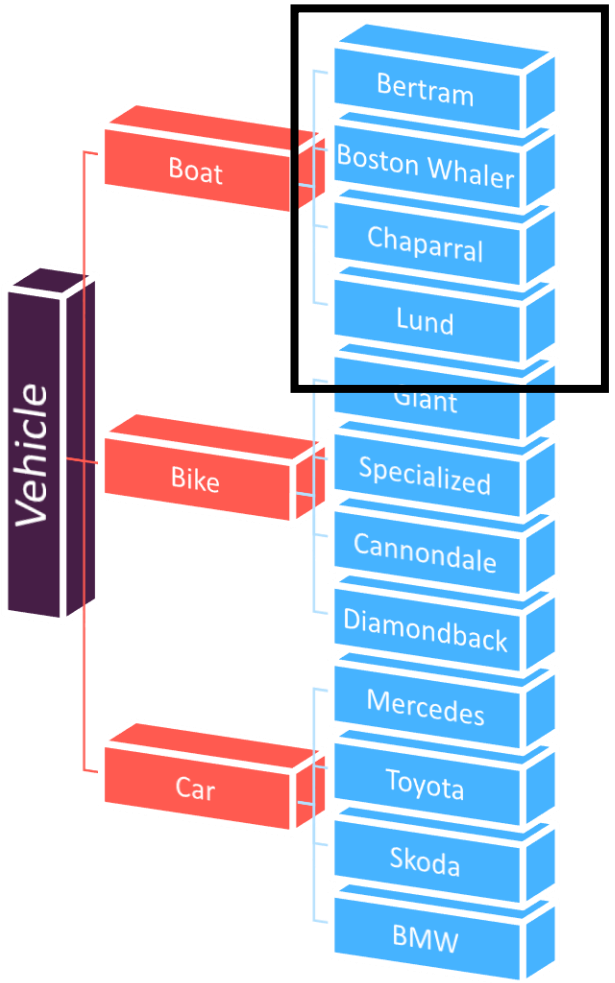
Configuration - Parent

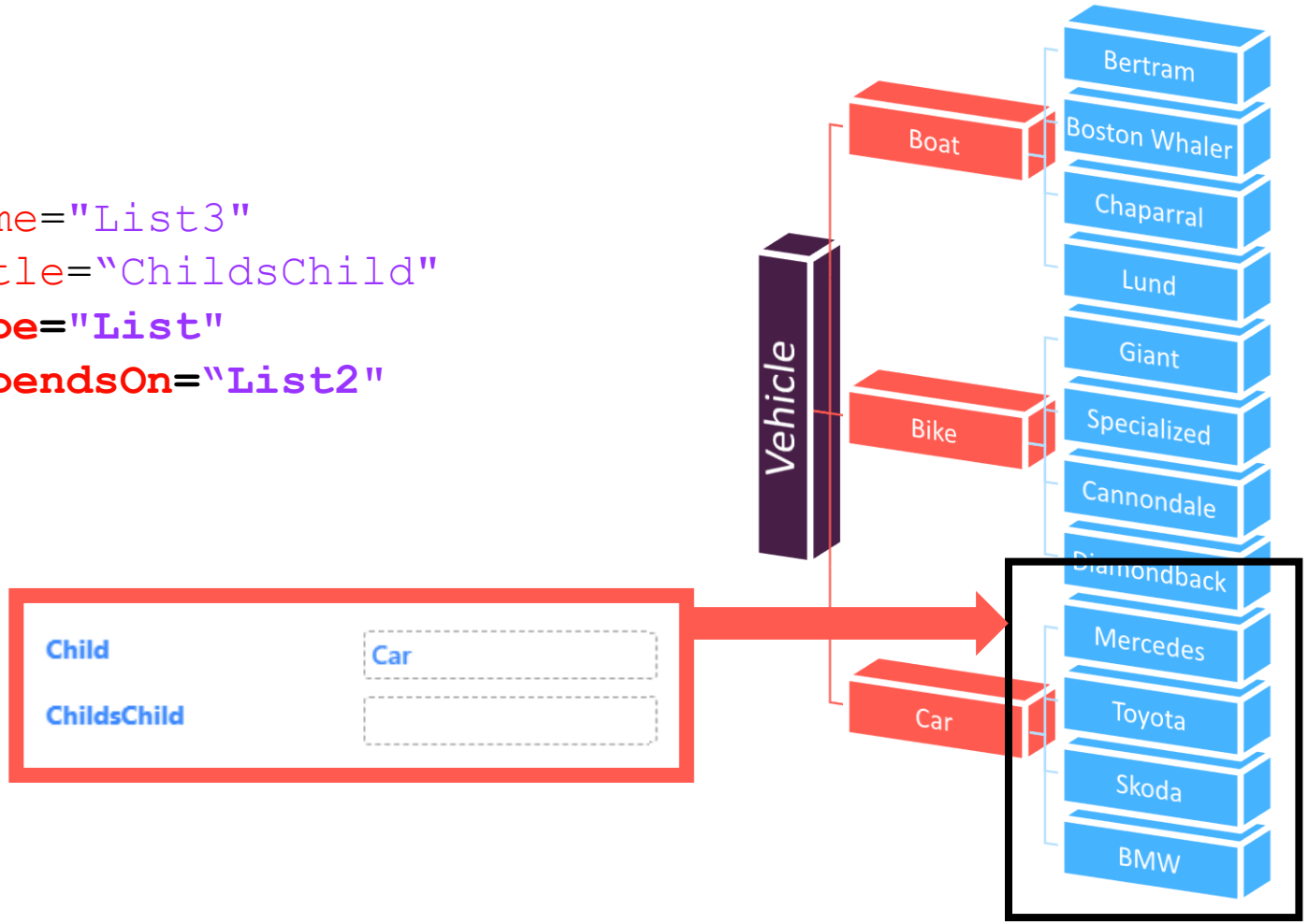
```
<column        name="List4"
               title="Boat Children"
               type="List"
               parent="Boat"
/>
```



HUGstage23

Configuration - DependsOn

```
<column        name="List3"
               title="ChildsChild"
               type="List"
               dependsOn="List2"
/>
```



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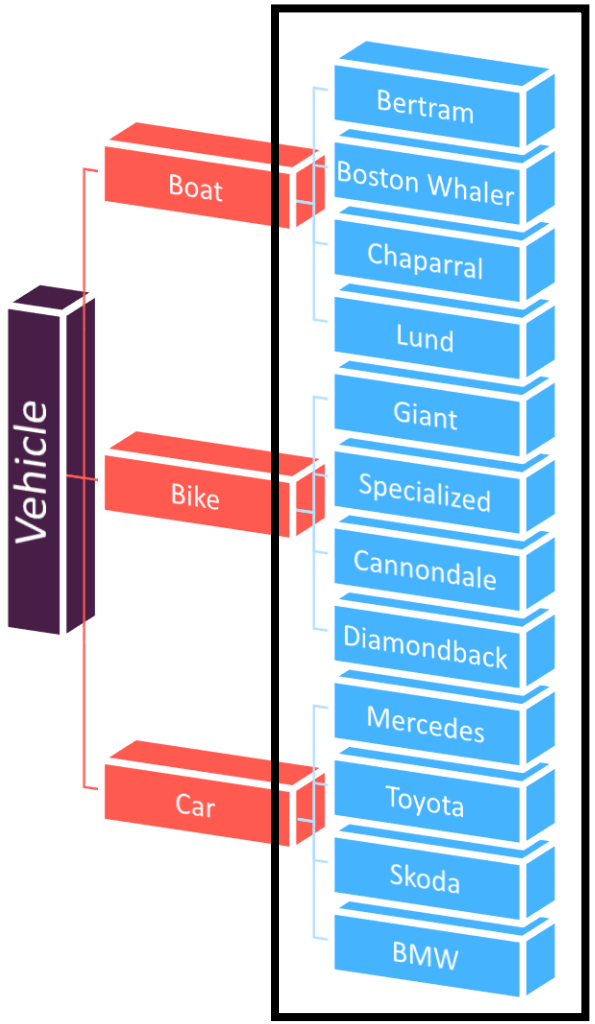
Configuration - LeafsOnly

```
<column        name="List5"
               title="Leafs Only"
               type="List"
               parent="Vehicle"
               leafsOnly="1"
/>
```



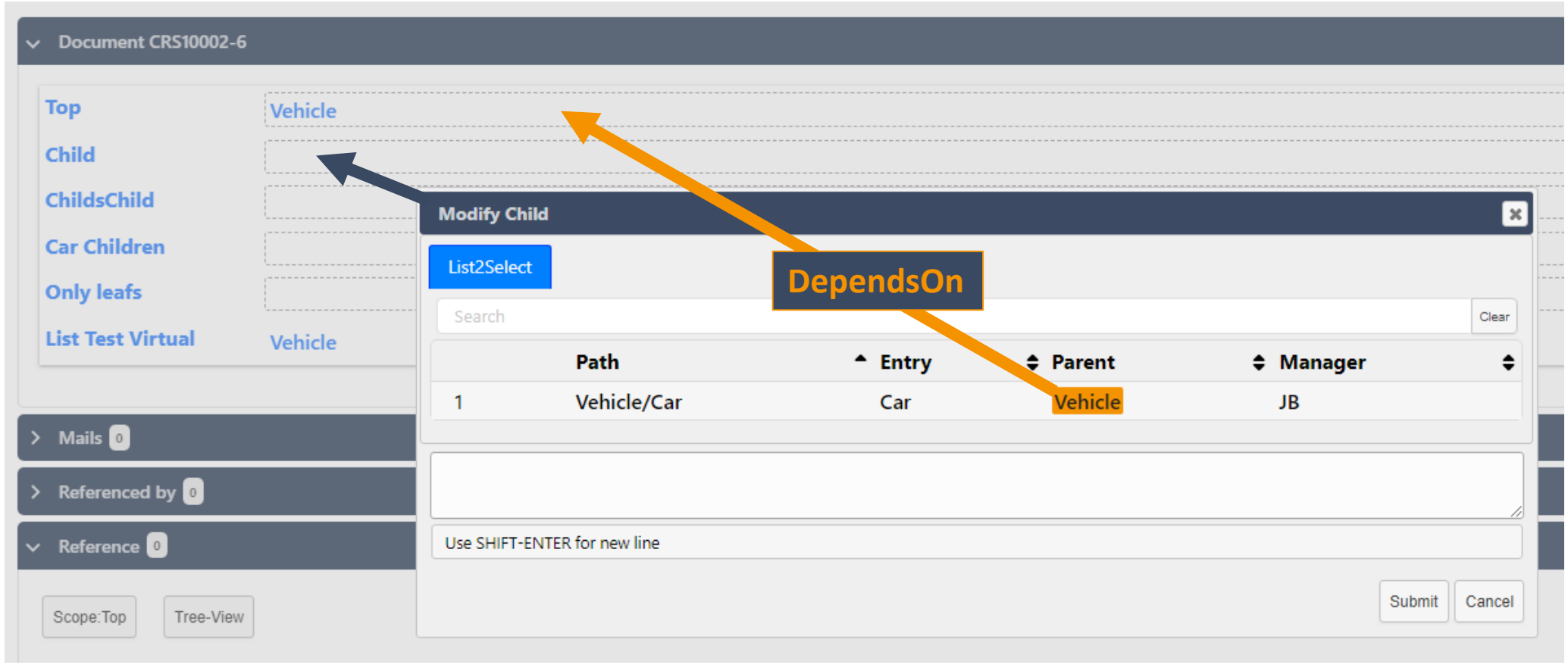
Using new list items

HUGstage23

Using new list items

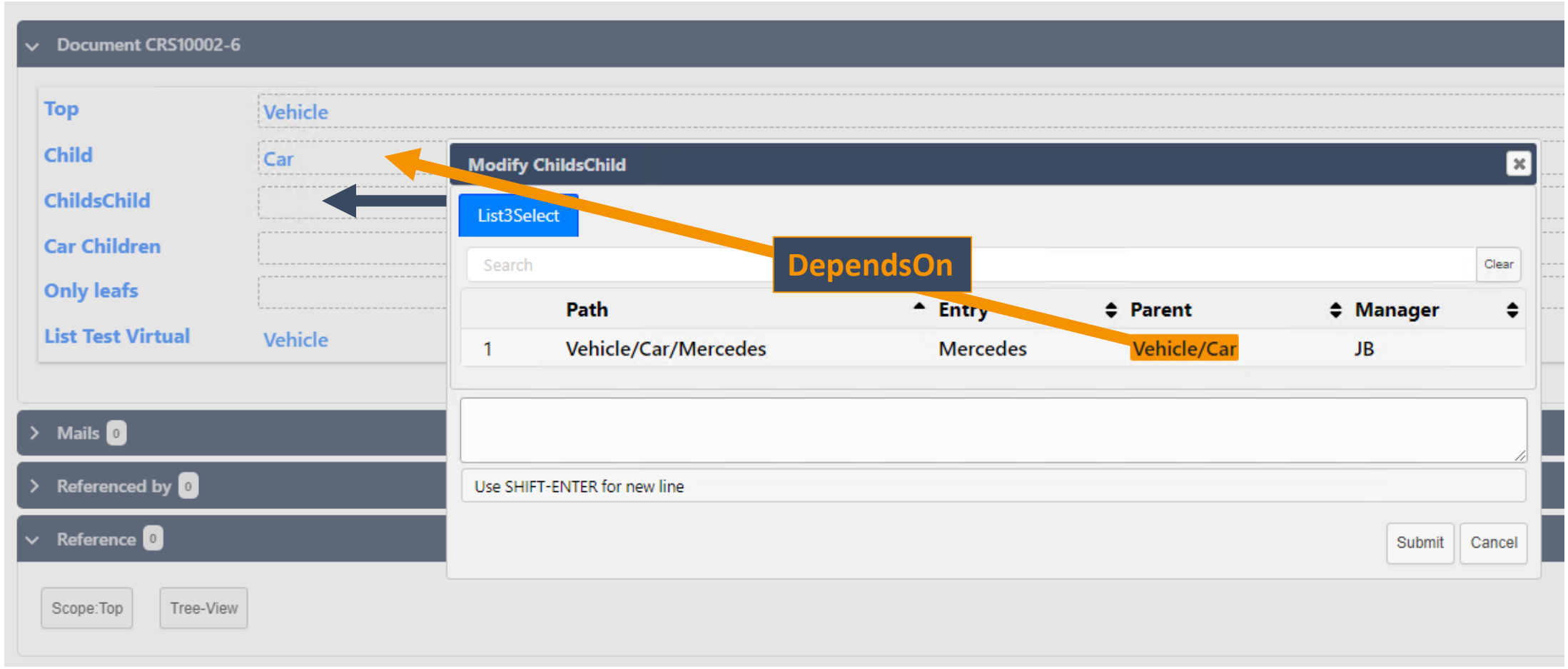
HUGstage23

Using new list items



HUGstage23

Using new list items



Questions?

THANK YOU!!!!

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Souvenirs from HUG 2023

- T-shirt
- Damn good coffee with a ChatGPT poem about Highstage
- Don’t forget the open Techie’s Corner afterwards
- Dinner at 1700 for those who signed up for it

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Mentimeter #11-13

THANK YOU!!!!

Techie’s Corner

General presentation of Highstage

HUGstage23

Techie’s Corner

- Reference 2.0
- Template management
- Basetype inheritance

THANK YOU EVEN MORE

ONE
SIZE
NEVER
FITS
ALL