

Quickly Modernize Natural Applications for the web with Natural for AJAX

From Legacy to Leading Edge

Adabas & Natural North America User Group

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Agenda

- Overview of Natural for AJAX
- Advantages of using Natural for AJAX
- Additional Considerations
- Access to Demos & Developer Tools
- Proof-of-Concept Example
- Contact & Reference Info

Overview of Natural for AJAX

- AJAX = Asynchronous JavaScript® And XML
- Eliminates the need to reload whole Web pages when a subset of data is changed
- A Natural development tool that allows you to transform existing green screens into interactive, web-based page layouts
- Integrated with NaturalONE
- Developer license free with NaturalONE

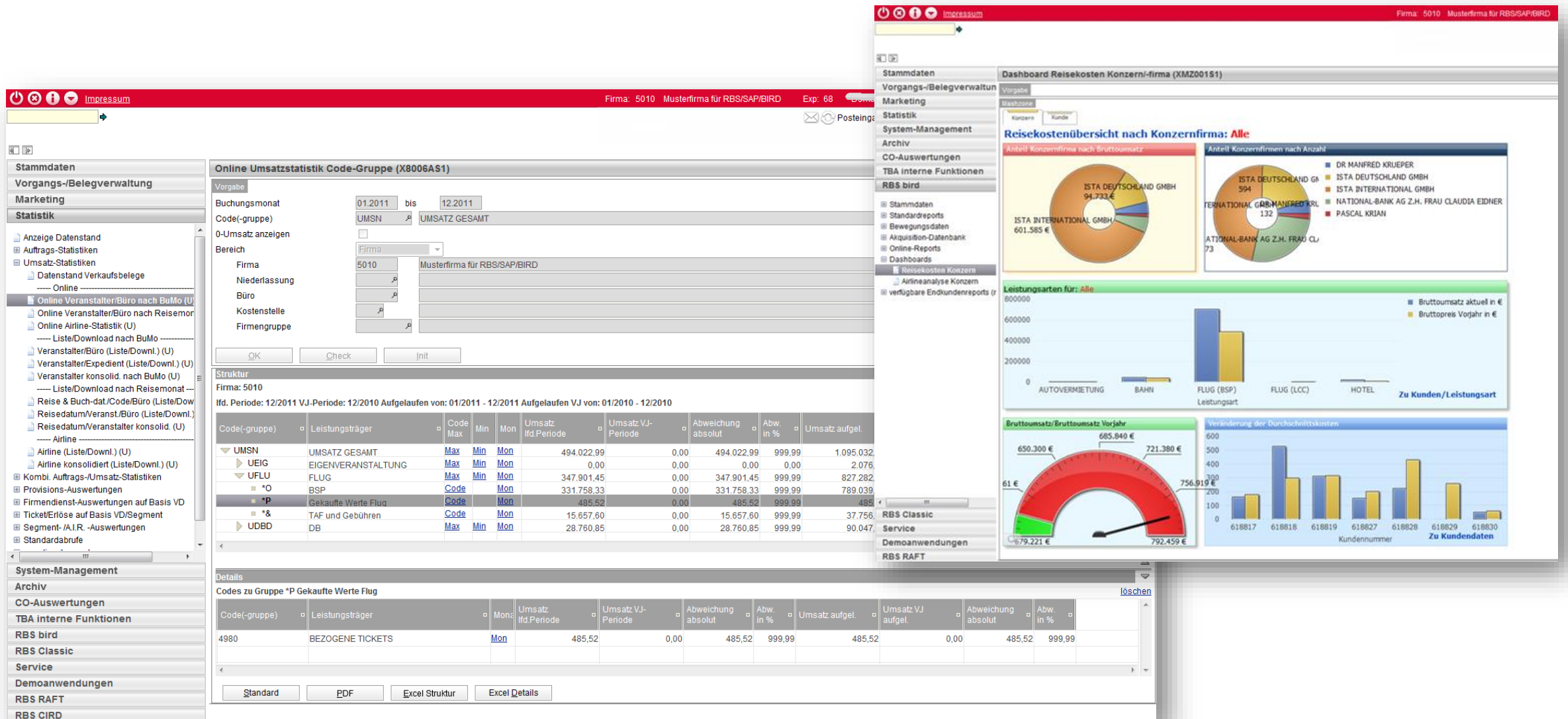
Advantages of using Natural for AJAX

- Increases business user acceptance and productivity
- Enables Natural developers to perform modernizations
- Provides low-risk approach to legacy modernization
- Allows phased modernization approach
- Provides tools to convert existing Natural maps to web page layouts
- No training or experience needed in JavaScript, HTML or CSS
- Comprehensive demo environment available in development tool

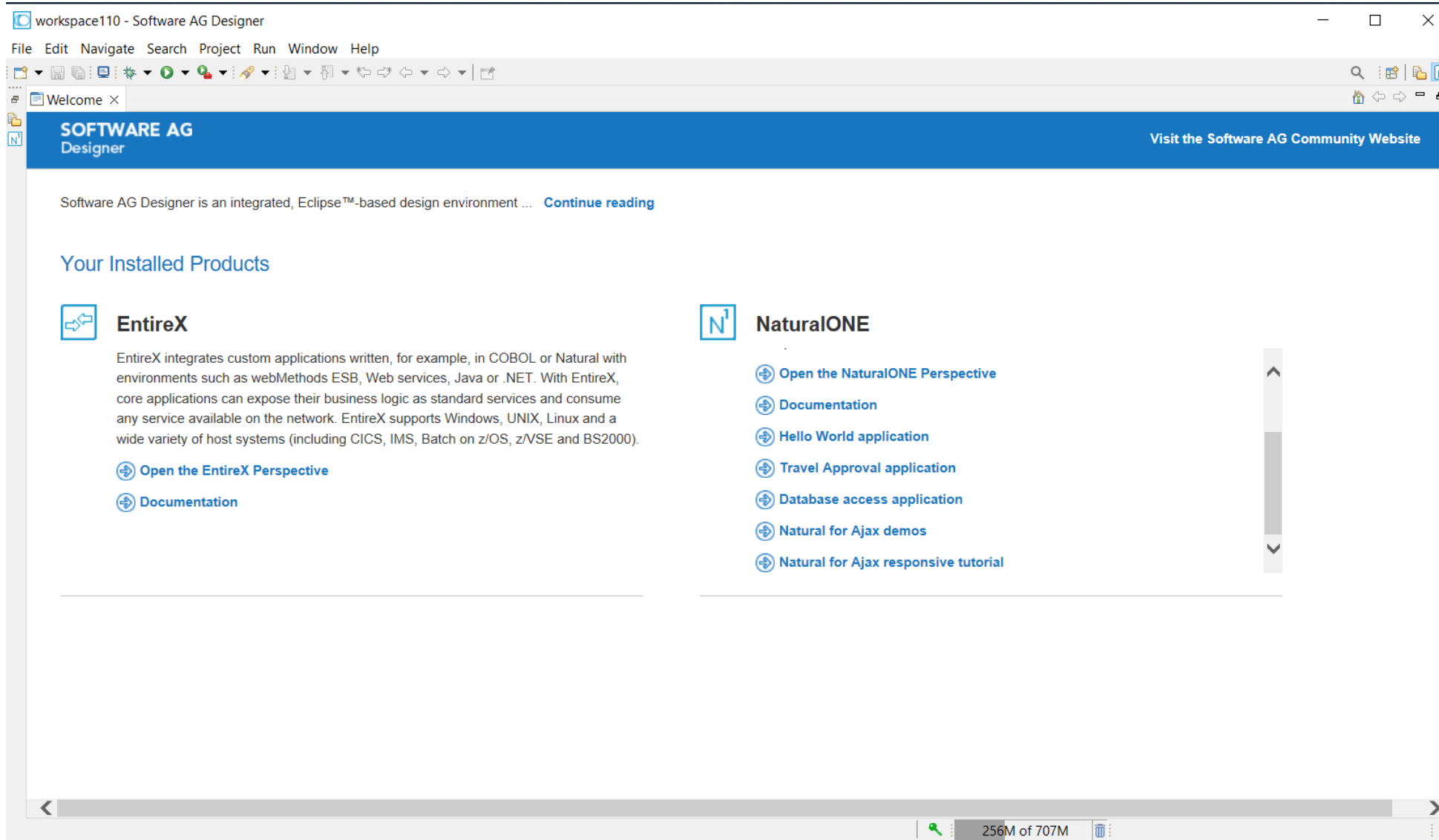
Additional Considerations

- Why invest in this change?
 - Acceptance that mainframe & mainframe applications are part of low code modernization trends
 - Works with Linux & Windows platforms
 - Green screens are running out of text and field space
 - Database fields need to be increased and displayed
- Options for evaluation
 - Encourage existing NaturalONE developers to build simple applications and show value of tool to management
 - PreSales System Engineers available to demo and support proof-of-concepts
 - Professional Services available to assist in application analysis, project planning, development activities, and to provide knowledge transfer

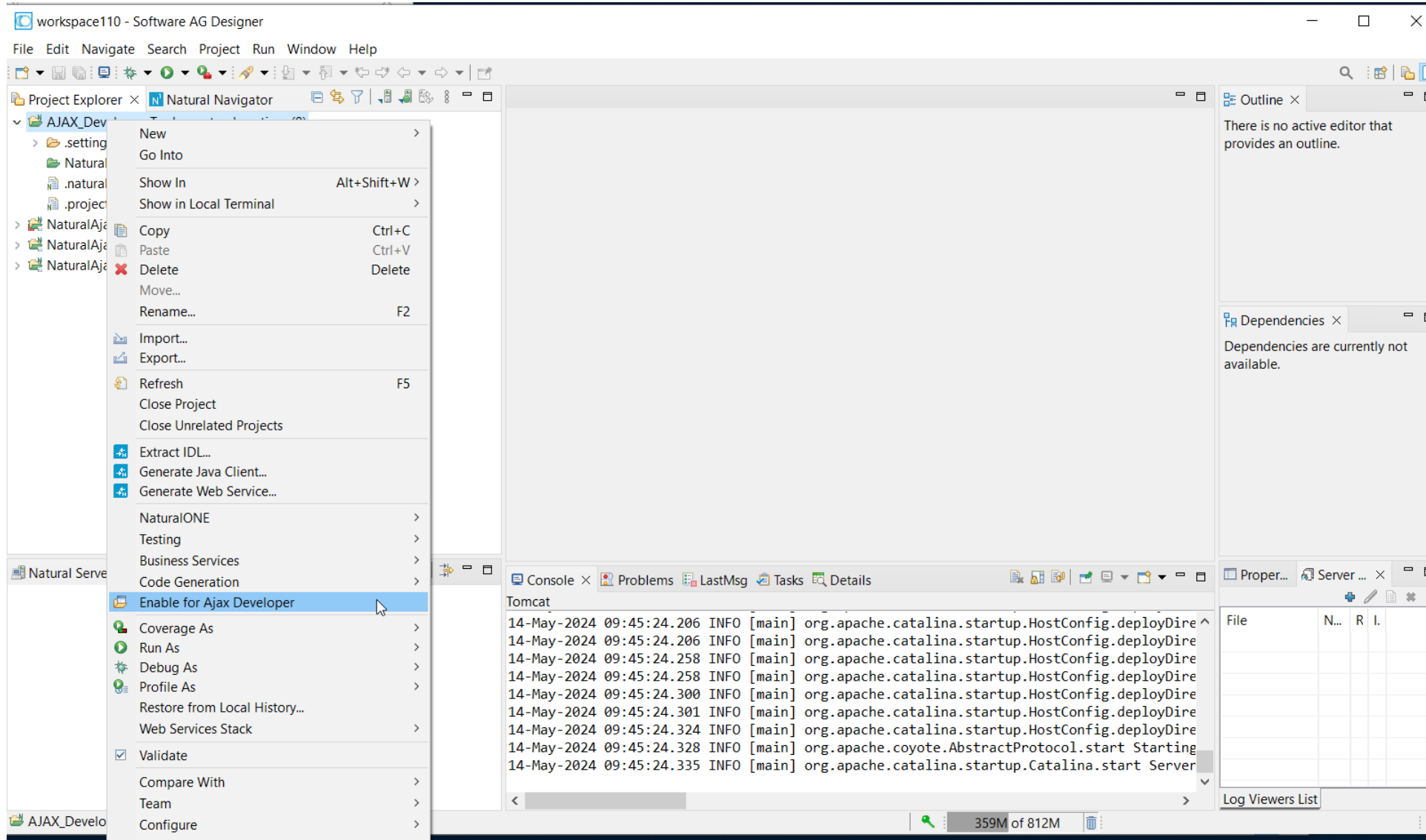
Example NJX Modernization



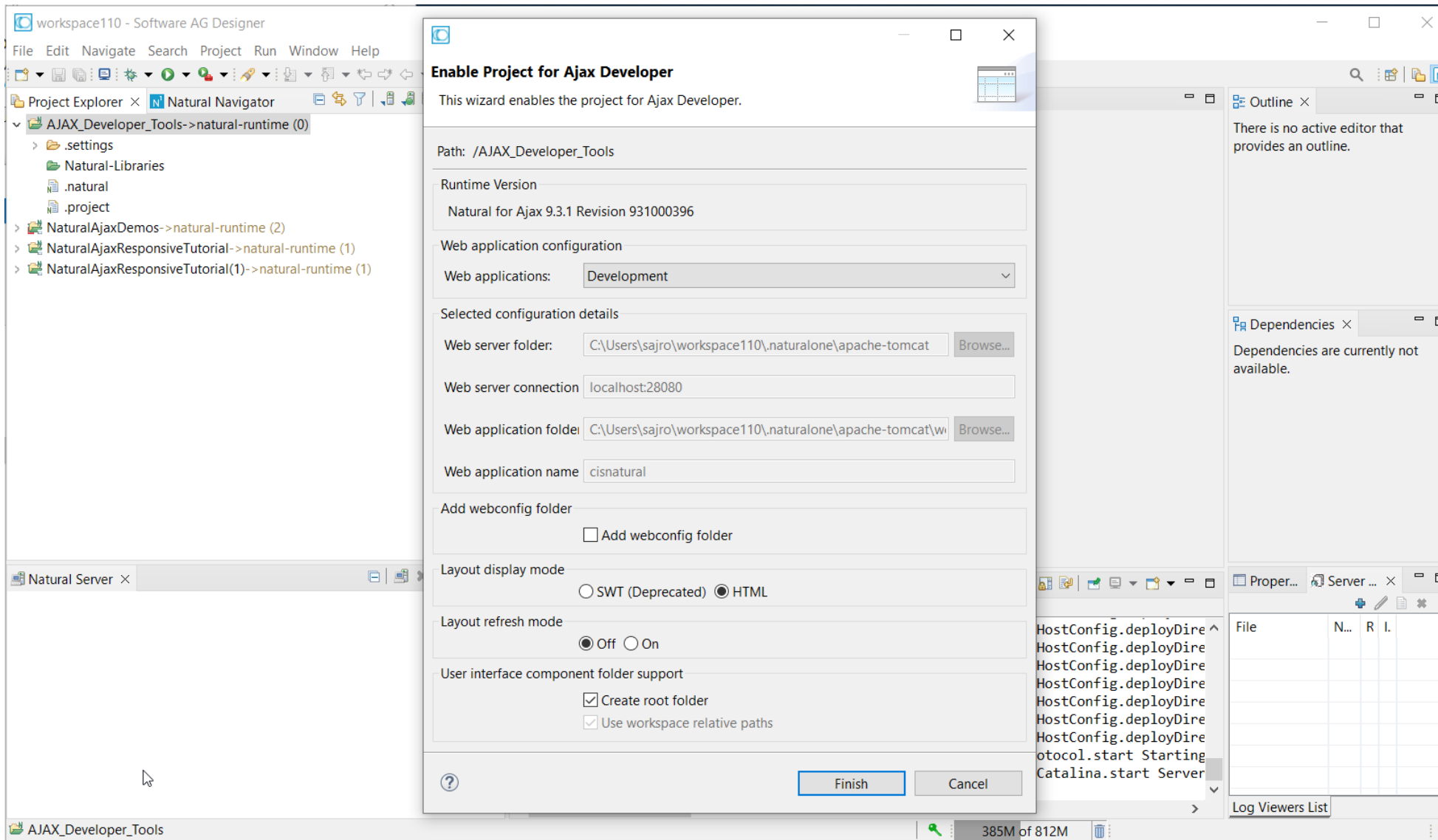
Access to Demos



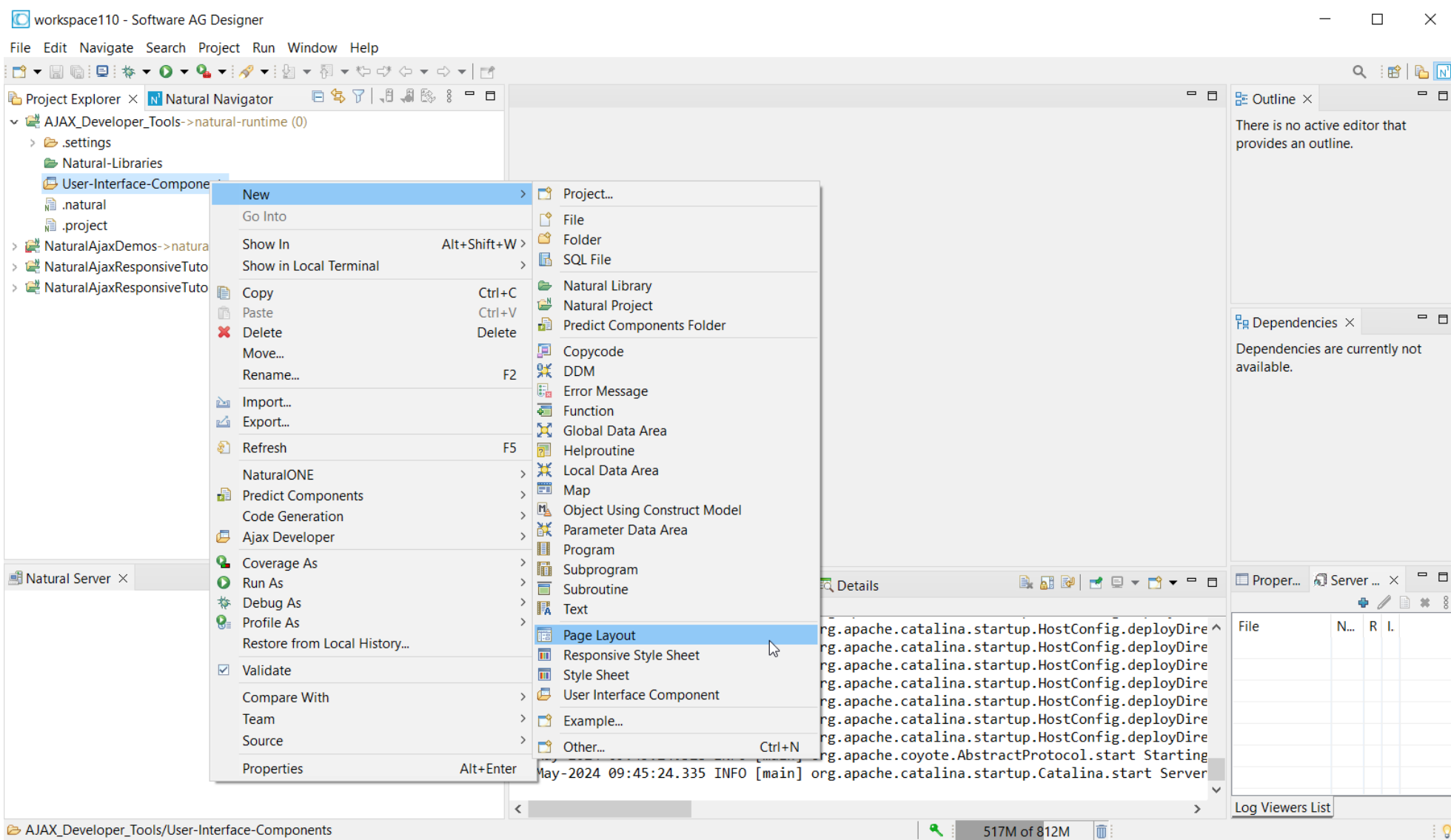
Access to AJAX Developer



Access to AJAX Developer



Access to AJAX Developer



Transformations with Natural for AJAX

Menu Before and After

SYST
MJFARMER

SEL

DESCRIPTION

=====

SADM

System Admi

ISMN

Information

APMS

Accounts Pa

POMM

Purchasing

PPLN

Production

FCUT

Fabric Cutt

CUST

Customer

OASM

Order Alloc

OENT

Order Entry

RAUT

Return Auth

TXTL

Bernhardt T

FRAM

Frames

Enter-PF1---PF2--
Comt Help

BERNHARDT FURNITURE COMPANY

02/15/2024

Bernhardt

Bernhardt Systems Selection Menu

BERNHARDT

System Administration

Information Sytems

Accounts Payable

Purchasing Main Menu

Customer

Order Allocation


Order Entry

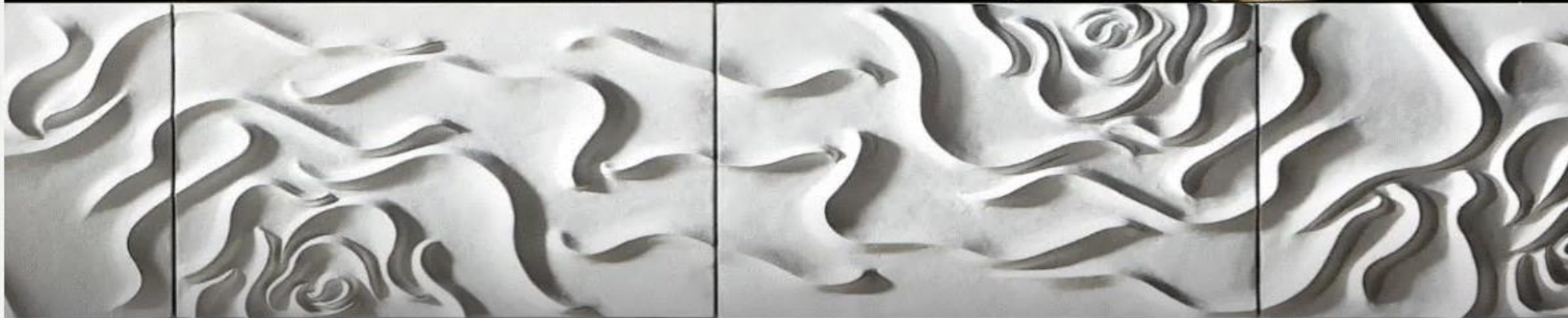
Bernhardt Textiles

Order Entry Main Functions

Order Entry Miscellaneous Functions

BERNHARDT



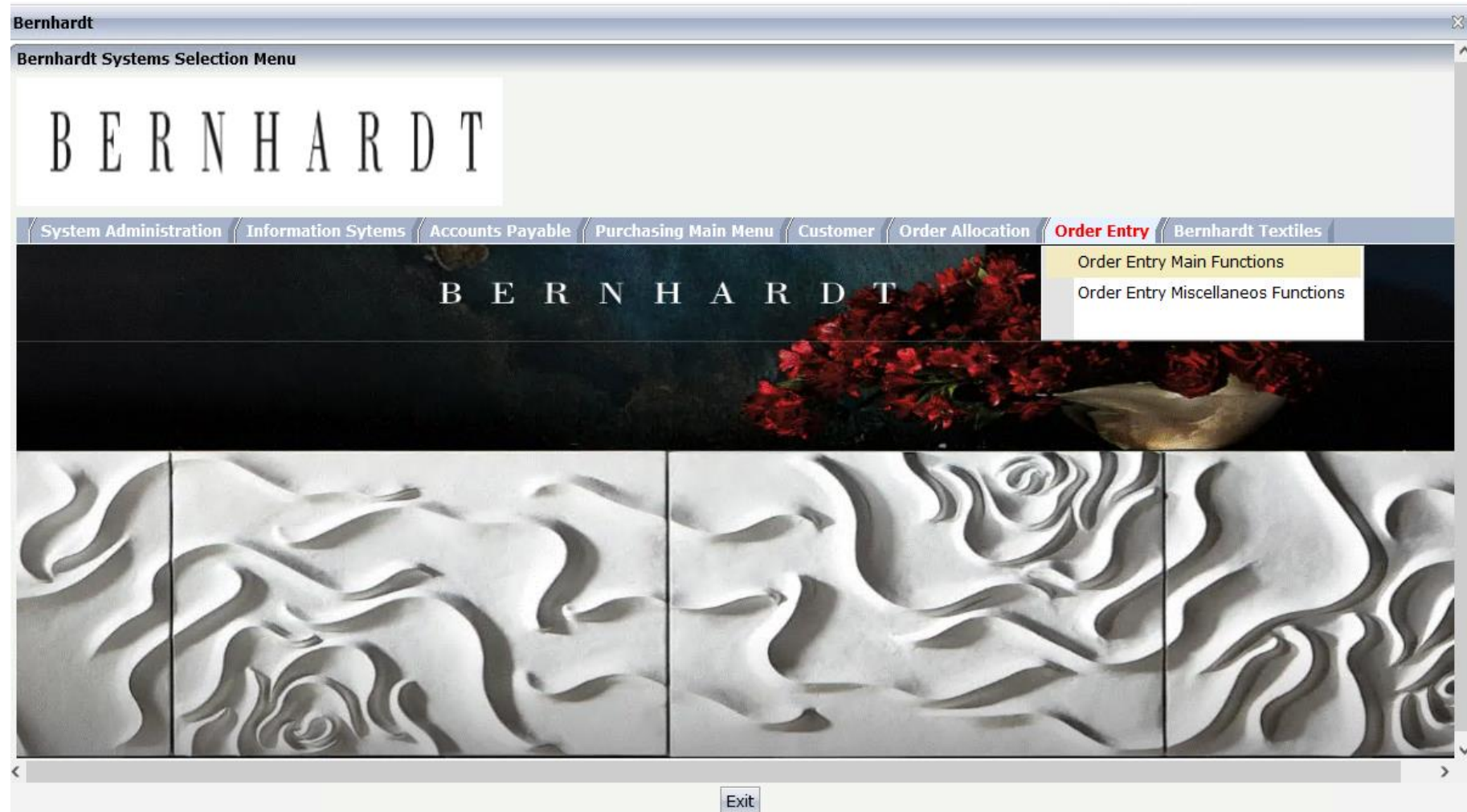


Exit

Menu Before and After

Benefits

- Dynamic Menu per user
- Tree Explorer, Drop Down and/or Clickable links options for menus
- Direct Navigation to screens via a menu



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Open Order Header Maintenance

Customer Number: 435224

Customer PO Number: 1017HPDREPL

Date: 03-20-24

Invoice Number: Mar 2024

National Account:

DCSI:

Acknowledgement #: B010042

Division:

Shipping Info

Sales Info

Mo Tu We Th Fr Sa Su

Sold To: K. RENEE INC

WEST 2600 UNIVERSITY AVE

DES MOINES IA 50266-

Previous Ship Addresses

1123 MAIN ST, JUPITER, FL 33458

10400 HICKMAN RD, CLIVE, IA 50325

Ship To:

K. RENEE INC

C O CENTENNIAL WHSE

10400 HICKMAN ROAD

CLIVE IA 50325

Validate Address

Shipping Instructions

Please Call before you deliver

Do Not Ship Before: 2024-03-01

Do Not Ship After: 04-03-24

Exit

Case Goods

Upholstery

Tables

Clear

Green Screen

Drake University

Map showing Drake University and surrounding area with various landmarks and streets.

Data Entry Screen Before and After

Benefits

- Tabs to replace screens
- Interactive Map
- Controls
 - Drop downs
 - Date Controls
 - Text Boxes
- Dynamic field sizes
- Select from list to populate data fields
- Retain traditional navigation "Jump To"

Open Order Header Maintenance

Customer Number: 435224
Customer PO Number: 1017HPDREPL
Date: 03-20-24
Invoice Number: Mar 2024

National Account:
DCSI:
Acknowledgement #: B010042
Division:

Shipping Info Sales Info

Sold To:
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WEST 2600 UNIVERSITY AVE
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C O CENTENNIAL WHSE
10400 HICKMAN ROAD
CLIVE IA 50325
Validate Address

Shipping Instructions
Please Call before you deliver

Do Not Ship Before: 2024-03-01
Do Not Ship After: 04-03-24

Previous Ship Addresses
1123 MAIN ST, JUPITER, FL 33458
10400 HICKMAN RD, CLIVE, IA 50325

Map
A Google Map showing the location of Drake University and surrounding areas. The map includes labels for streets, landmarks, and businesses. A red pin is placed on the map, indicating the location of the ship-to address. The map is interactive, allowing users to zoom in and out, and click on various points of interest.

Exit Case Goods Upholstery Tables Clear Green Screen

Jump To:

Multiple Screens Before and After

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Ship To..: K.REN
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- - - - -
- - - - -
- - - - -
Next: Cube:
Enter-PF1---PF2-
Comt Help Rtrn
```

Open Order Header Maintenance

Customer Number: 435224

National Account:

Customer PO Number: 1 Customer ID tooltip with helpful text

DCSI:

Date: 2023-11-08

Acknowledgement #: B010042

Invoice Number: 028108

Division: Bernhardt Case Goods Reg

Shipping Info

Sales Info

Order Detail

Notes

Order Entry Line Items

S	K	Line	Qty	Ship	Item	Description	Seq	Ship Date	Fabric
S	K	1	1	1	553124	ACCENT TABLE	008	11/27/23	OAK
S	K	2	1	1	153123	SOFA	004	11/28/23	LEATHER

Exit

Jump To:

Multiple Screens Before and After

Benefits

- Controls
 - Code translation
 - Grid based tables
- Interactive help tips

Open Order Header Maintenance

Customer Number:435224

Customer PO Number:1

Customer ID tooltip with helpful text

Date:2023-11-08

Invoice Number:028108

National Account:

DCSI:

Acknowledgement #:B010042

DivisionBernhardt Case Goods Reg

Shipping InfoSales InfoOrder DetailNotes

Order Entry Line Items

S	K	Line	Qty	Ship	Item	Description	Seq	Ship Date	Fabric
S	K	1	1	1	553124	ACCENT TABLE	008	11/27/23	OAK
S	K	2	1	1	153123	SOFA	004	11/28/23	LEATHER

Exit

Jump To:

Browses Before and After

NOTE
MJFARME

Action

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Next Ty
Enter-P
Comt H

Open Order Header Maintenance

Customer Number:
435224

Customer PO Number:
1017HPDREPL

Date:
2023-11-08

Invoice Number:
028108

National Account:

DCSI:

Acknowledgement #:
B010042

Division

Shipping InfoSales InfoOrder DetailNotes

Description	Charges
DONATE	
CCS CORNER CRUSHED	
5100-01-02	
B14988 11/17/22	
JULIE 555-5555	

Browses Before and After

Benefits

- Controls
 - Scrollable areas

Open Order Header Maintenance

Customer Number:	435224	National Account:	
Customer PO Number:	1017HPDREPL	DCSI:	
Date:	2023-11-08	Acknowledgement #:	B010042
Invoice Number:	028108	Division	

Shipping Info **Sales Info** **Order Detail** **Notes**

Description	Charges
DONATE	
CCS CORNER CRUSHED	
5100-01-02	
B14988 11/17/22	
JULIE 555-5555	

Additional capabilities

Benefits

- Download PDF reports with a click of a button
- Upload data
- Call external supports like verify address

Order Entry

Open Order Header Maintenance

Customer Number:	435224	National Account:	
Customer PO Number:	1017HPDREPL	DCSI:	
Date:	2023-11-08	Acknowledgement #:	B010042
Invoice Number:	028108	Division	

Shipping Info

Sales Info

Order Detail

Notes

Exit

Jump To:

Not all screens need to be transformed

This Acknowledgment

OERUPHN1

Mar 6,24

Action.....:

Ack No.....:

Line No.....:

Quantity-On Order:

Frame No.....:

Fabric No.....:

Kit Flag.....:

Finish.....:

Price.....:

COM Receiver No..:

Nail 1.....:

Nail 2.....:

Pillow Code.....:

Blendown/Feather.:

Cushion.....:

Tag For.....:

Special Instr....:

Add Display

Enter-PF1---PF2---PF3---

confm help retrn q

Natural Web I/O Output

S software AG

OERUPHMX

Action.....: ☒

Ack No.....:

Line No.....:

Quantity-On Order: Shipped: 0 Ship Date..:

Frame No.....:

Fabric No.....:

Kit Flag.....:

Finish.....:

Price.....:

COM Receiver No..:

Nail 1.....:

Nail 2.....:

Pillow Code.....:

Blendown/Feather.:

Cushion.....:

Tag For.....:

Special Instr....:

Customer...: Alt Cust...:

Plant.....:

Grade.....: Yardage: 0.0

Kit Number:

State Code:

PDL.....:

Arm Cover.:

SCP.....:

Welt.....:


Cubic Feet: 0.00

Ack Total..:


Not all screens need to be transformed

- Existing screens can be rendered in the browser
- Style sheet can be modified to change fonts/colors/framing
- PF Keys can be transformed into clickable links

Natural Web I/O Output

 software AG

OERUPHMX

Action.....: 

Ack No.....: Customer...: Alt Cust...:

Line No.....:

Quantity-On Order: Shipped: 0 Ship Date.:

Frame No.....:

Fabric No.....:

Kit Flag.....:

Finish.....:

Price.....:

COM Receiver No..:

Nail 1.....:

Nail 2.....:

Pillow Code.....:

Blendown/Feather.:

Cushion.....:

Tag For.....:

Special Instr....:

Plant.....:

Grade.....: Yardage: 0.0

Kit Number:

State Code:

PDL.....:

Arm Cover.:

SCP.....:

Welt.....:

Cubic Feet: 0.00

Ack Total.:

Green Screen coding vs. NJX Coding

Green Screen Natural

- Input using map 'XXXXXXXX'
- Decide on firsts PF-Key
 - Enter/PF1,PF2,etc
 - Reinput
- Defined Variable Lengths

▪ Natural for AJAX

- Process using page 'XXXXXX'
- Decide on first event
 - Method(onButtonClick, onHover, onSelect)
 - Process page partial/full
- Dynamic Variable lengths



Adabas & Natural 2050+

Future ready. Now.

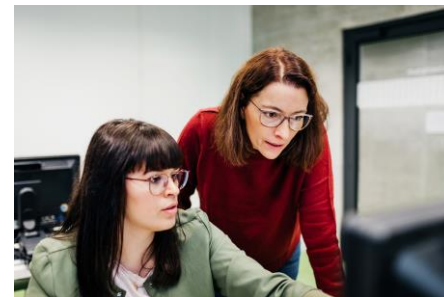
Three key takeaways

Natural for AJAX



Improves business user acceptance and productivity

Provides ability for Natural developers to support modernizations



Provides low-risk, phased approach to legacy modernization

Contact & Reference Information

Professional Services support:

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Reference:

- Training [Software AG LP: Rich Internet Applications with Natural for Ajax \(346-71E\)](#)
- Documentation [Natural for Ajax \(softwareag.com\)](https://www.softwareag.com)



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2050+

Future ready. Now.