



## software Natural For AJAX User Guide

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software Natural For AJAX



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### 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 Natural ONE
- Developer license free with Natural ONE

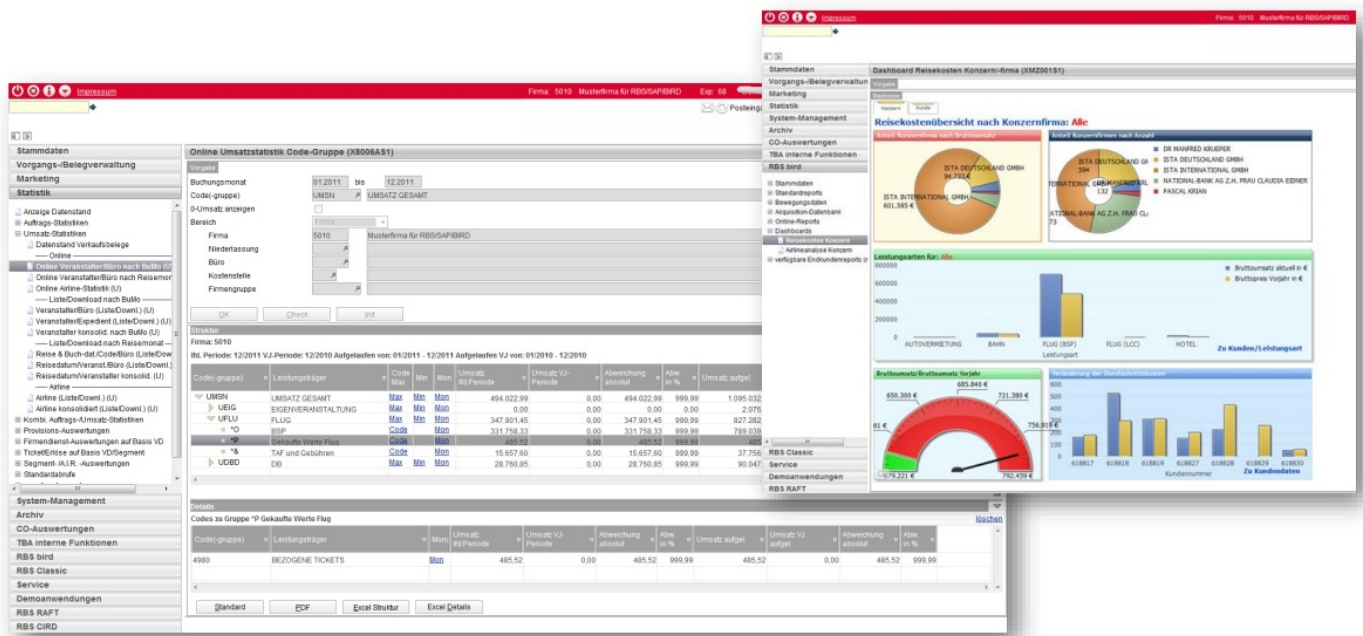
### **Advantages of using Natural for AJAX**

- 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 Natural ONE developers to build simple applications and show value of tool to management
  - Pre Sales 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

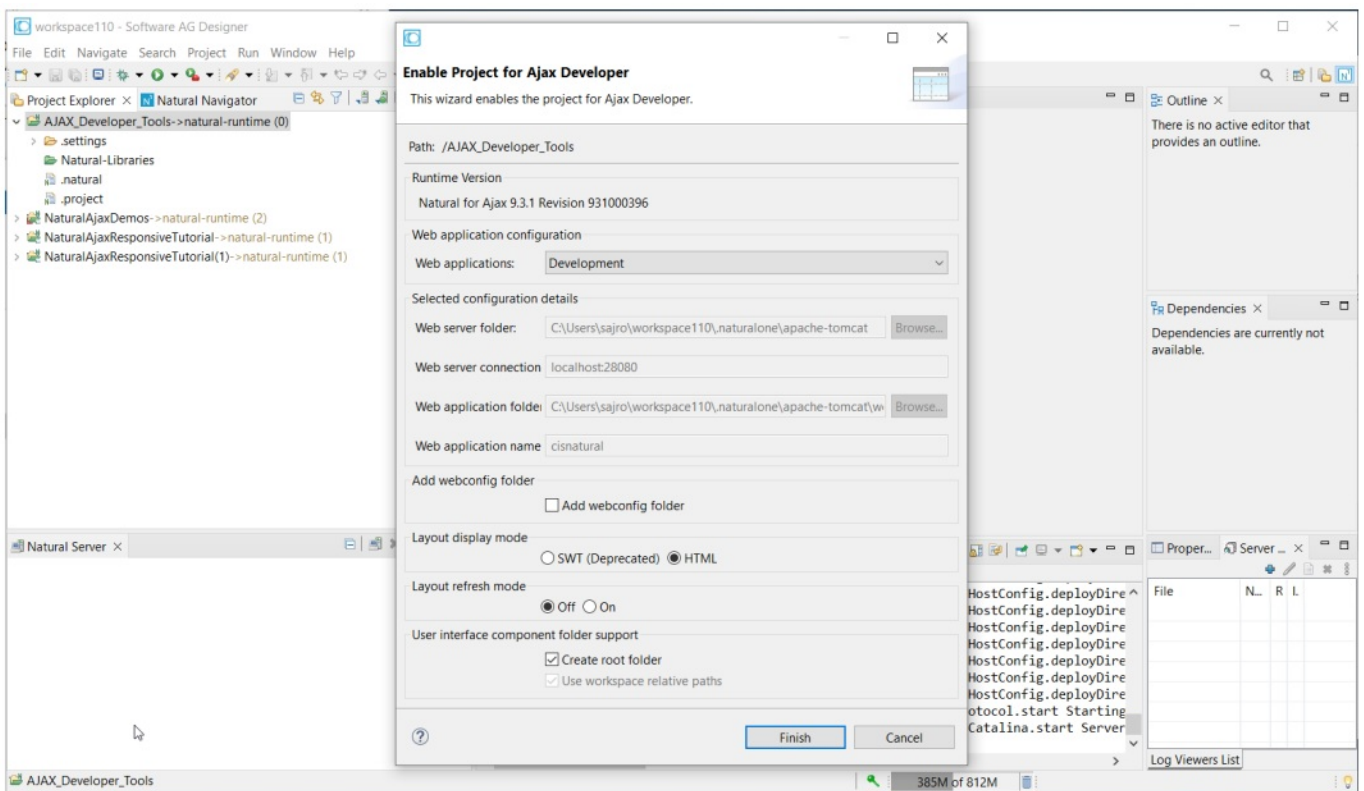
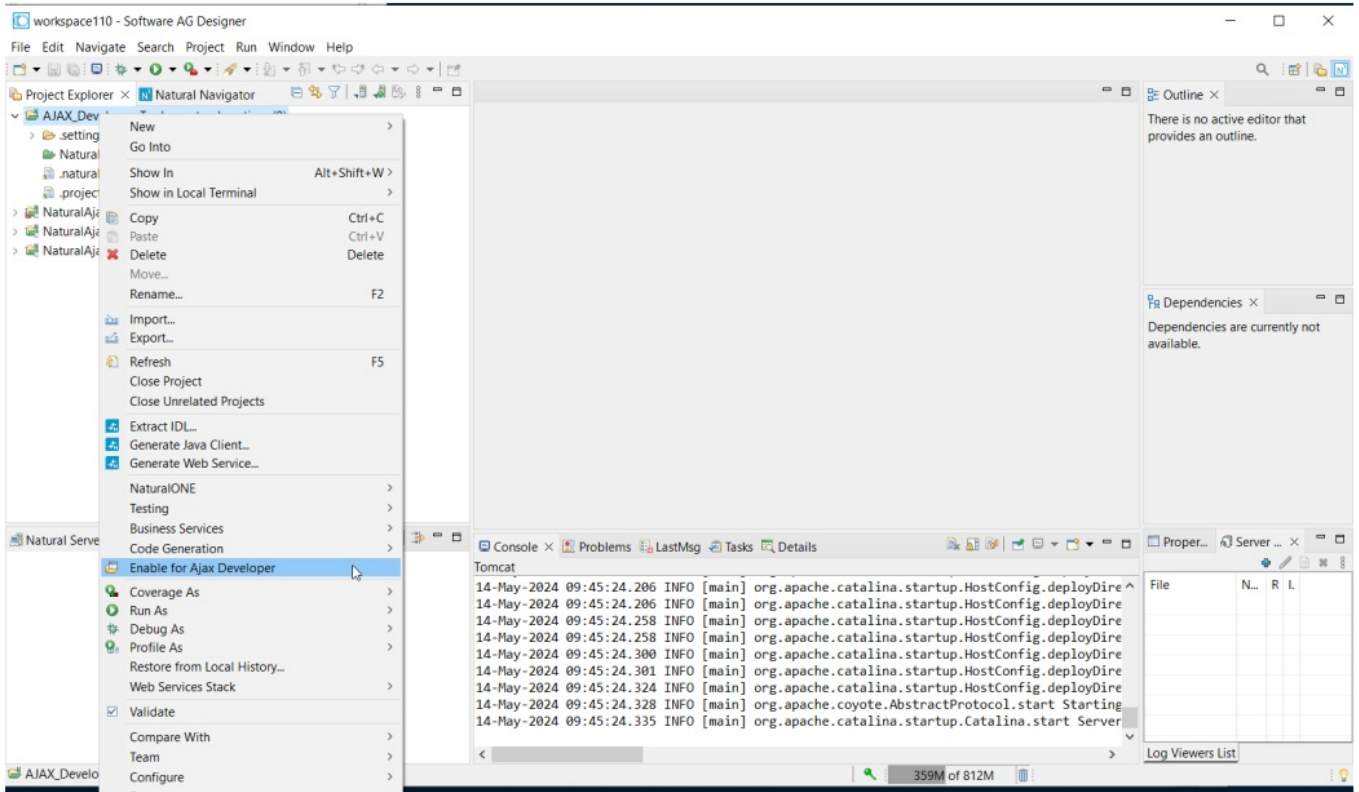
### **Example NJX Modernization**

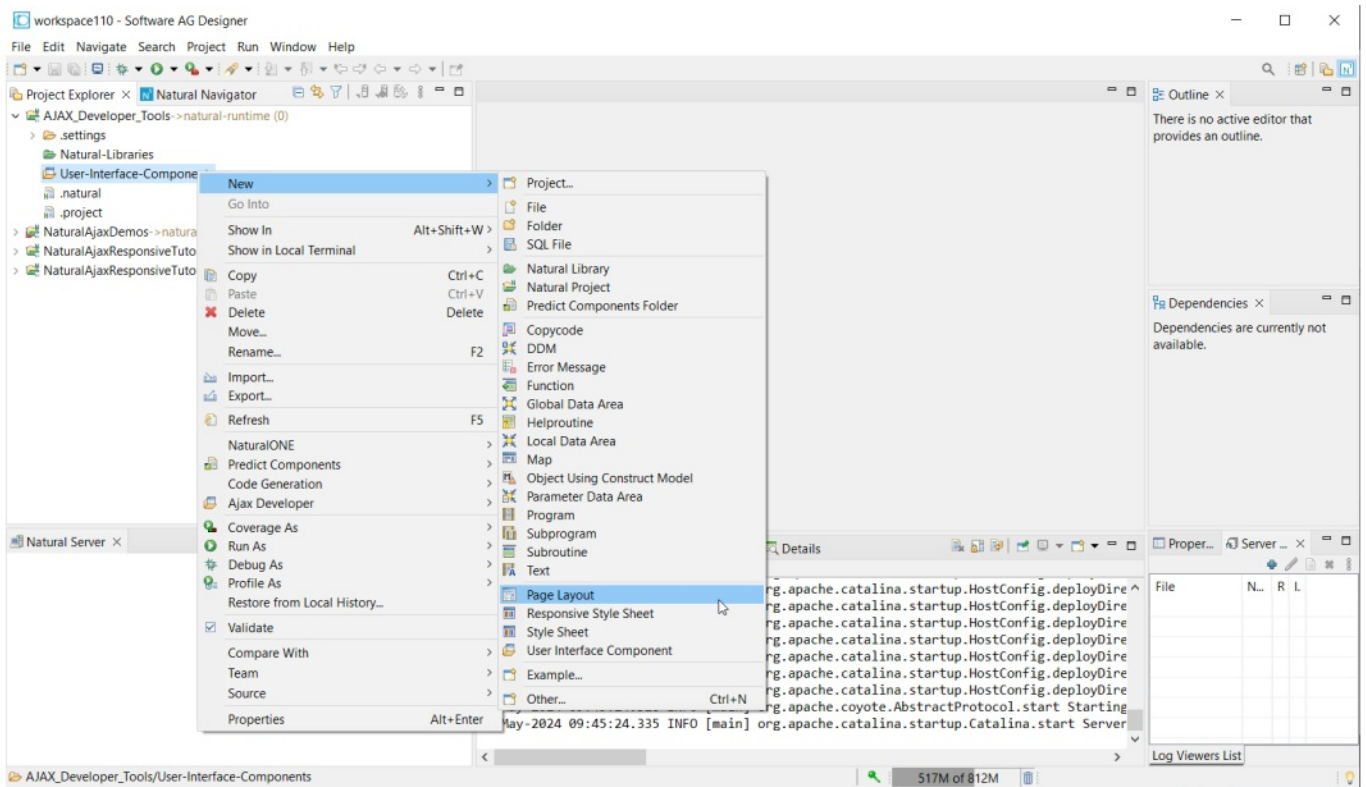


## Access to Demos

workspace110 - Software AG Designer
File Edit Navigate Search Project Run Window Help
Welcome X
SOFTWARE AG Designer
Visit the Software AG Community Website
Software AG Designer is an integrated, Eclipse™-based design environment ... Continue reading
Your Installed Products
EntireX
EntireX integrates custom applications written, for example, in COBOL or Natural with environments such as webMethods ESB, Web services, Java or .NET. With EntireX, core applications can expose their business logic as standard services and consume any service available on the network. EntireX supports Windows, UNIX, Linux and a wide variety of host systems (including CICS, IMS, Batch on z/OS, z/VSE and BS2000).
Open the EntireX Perspective
Documentation
NaturalONE
Open the NaturalONE Perspective
Documentation
Hello World application
Travel Approval application
Database access application
Natural for Ajax demos
Natural for Ajax responsive tutorial
256M of 707M

## Access to AJAX Developer

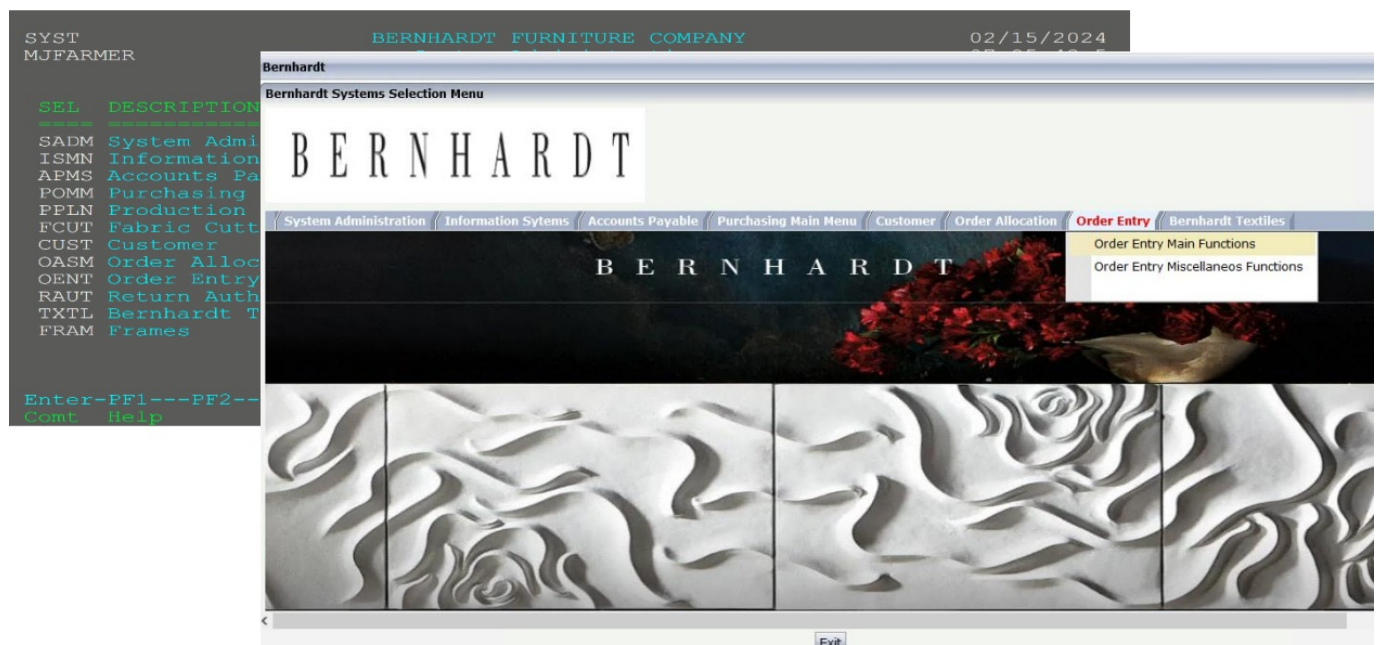




## Proof-of-Concept

Transformations with Natural for AJAX

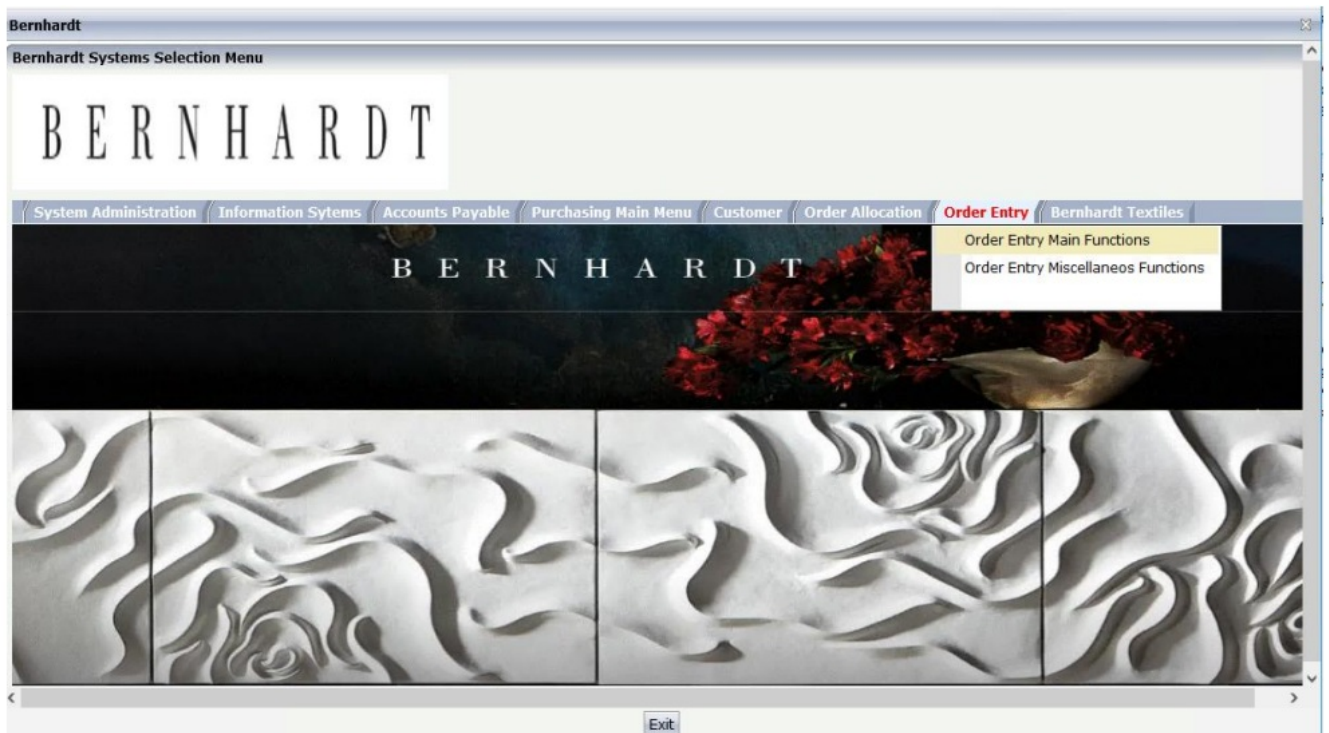
## Menu Before and After



## Benefits

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





## Data Entry Screen Before and After

**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:**

Mo	Tu	We	Th	Fr	Sa	Su
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

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

**Interactive Map:**

## 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 National Account:   
Customer PO Number: 1017HPOREPL DCSI:   
Date: 03-20-24 Acknowledgement #: B010042   
Invoice Number: Mar 2024 Division:

**Shipping Info** Sales Info

**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

## Multiple Screens Before and After

**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:

## Benefits

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

**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:

## Browses Before and After

**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	

## 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.....: [F1]

Ack No.....: [ ]

Line No.....: [ ]

Quantity-On Order: [0] 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...: [ ]

Add      Display

Enter-PF1---PF2---PF3

confm help retrn q

Natural Web I/O Output

**S software**<sup>AG</sup>

OERUPHMX

Action.....: [F1]

Ack No.....: [ ] Customer...: [ ] Alt Cust...: [ ]

Line No.....: [ ]

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

Frame No.....: [ ] Plant.....: [ ]

Fabric No.....: [ ] Grade.....: [ ] Yardage: 0.0

Kit Flag.....: [ ] Kit Number: [ ]

Finish.....: [ ] State Code: [ ]

Price.....: [ ] PDL.....: [ ]

COM Receiver No.: [ ] Arm Cover.: [ ]

Nail 1.....: [ ] SCP.....: [ ]

Nail 2.....: [ ] Welt.....: [ ]

Pillow Code.....: [ ] Cubic Feet: 0.00

Blendown/Feather.: [ ] Ack Total.: [ ]

Cushion.....: [ ]

Tag For.....: [ ]

Special Instr...: [ ]

- 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

**S software**<sup>AG</sup>

OERUPHMX

Action.....: [F1]

Ack No.....: [ ] Customer...: [ ] Alt Cust...: [ ]

Line No.....: [ ]

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

Frame No.....: [ ] Plant.....: [ ]

Fabric No.....: [ ] Grade.....: [ ] Yardage: 0.0

Kit Flag.....: [ ] Kit Number: [ ]

Finish.....: [ ] State Code: [ ]

Price.....: [ ] PDL.....: [ ]

COM Receiver No.: [ ] Arm Cover.: [ ]

Nail 1.....: [ ] SCP.....: [ ]

Nail 2.....: [ ] Welt.....: [ ]

Pillow Code.....: [ ] Cubic Feet: 0.00

Blendown/Feather.: [ ] Ack Total.: [ ]

Cushion.....: [ ]

Tag For.....: [ ]

Special Instr...: [ ]

## 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(on Button Click, on Hover, on Select)
- Process page partial/full
- Dynamic Variable lengths

### 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:

Julie Rowe, A&N Principal Consultant  
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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://softwareag.com))






### Documents / Resources



[software Natural For AJAX](#) [pdf] User Guide  
Natural For AJAX, Natural For AJAX, For AJAX, AJAX

### References

-  [Digital Transformation Solutions & Services | Software AG](#)
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