



How NewellBrands mastered the art of building user-friendly UI5 apps with speed and agility

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About the Speakers

Kumar Kasavaraju

- Manager SAP Portal Development, NewellBrands
 - I manage SAP Portal/Mobile developments at Newell Brands
 - 21 years Software Development experience with 18 Years in SAP Development

Syed Jaffar

- SAP Development Architect, NewellBrands
- MS in CIS from NEIU.
- 19 Yrs of Software Development experience with 14 yrs in SAP Developments

Key Outcomes/Objectives

1. How to reduce development inefficiencies by improving the UX design
 - Focus on getting the User Interface right
 - Reduce development time
 - High user acceptance
2. Understand hidden ROI benefits of user experience
3. Best practices of UI5 developments based on NewellBrands team's experience.

Agenda

- Speaker Bio
- About Newell Brands
- The need to upgrade UI
- Return on Investment
- Architecture
- Brief introduction about Customer Master Module
- Introduction to SAPUI5 developments at NewellBrands
- Demo of Customer Master Module
- Lessons Learned
- Questions

About NewellBrands

- One of the world's largest consumer and commercial package goods companies
- Headquartered in Hoboken, NJ. IT in Atlanta, GA
- Approximately 60,000 employees worldwide
- Brands – Sharpie, Expo, Parker, Calphalon, Rubbermaid, Graco, Coleman, Mr. Coffee, Marmot, Bubba

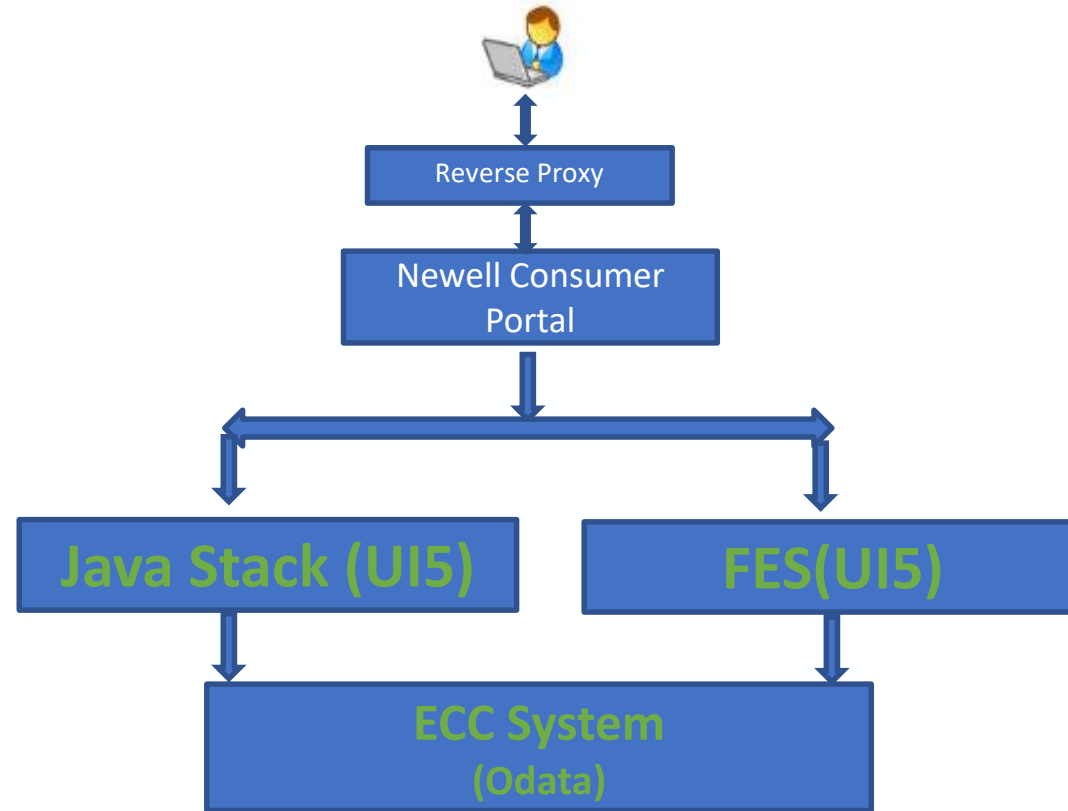
The need to upgrade UI...

- WD-ABAP & WD-Java are purely desktop oriented UI technologies.
- SAPUI5 is the future direction of SAP in terms of UI development.
- SAP suggests to create applications in SAPUI5, which is SAP's HTML5 library for responsive web development.
- Fiori is based on SAPUI5.
- Real outside-in development approach is possible in SAP for the first time.
- SAPUI5 has become a huge library with hundreds of controls.
- Supports internalization, MVC concept, etc. all things which make serious business app development possible.
- Can be completely customized to include your own branding
- SAP has standardized on the OData protocol. Business logic can be exposed as OData and binding OData to SAPUI5 controls is really easy.
- Open UI5 accelerates adoption and leading new additions to already huge libraries.
- Resources Required: WebIDE, FES, Eclipse/NWDS/NWDI, Web server.
- Skills Required: HTML/HTML5, JS, XML, CSS, JQuery

Return on Investment

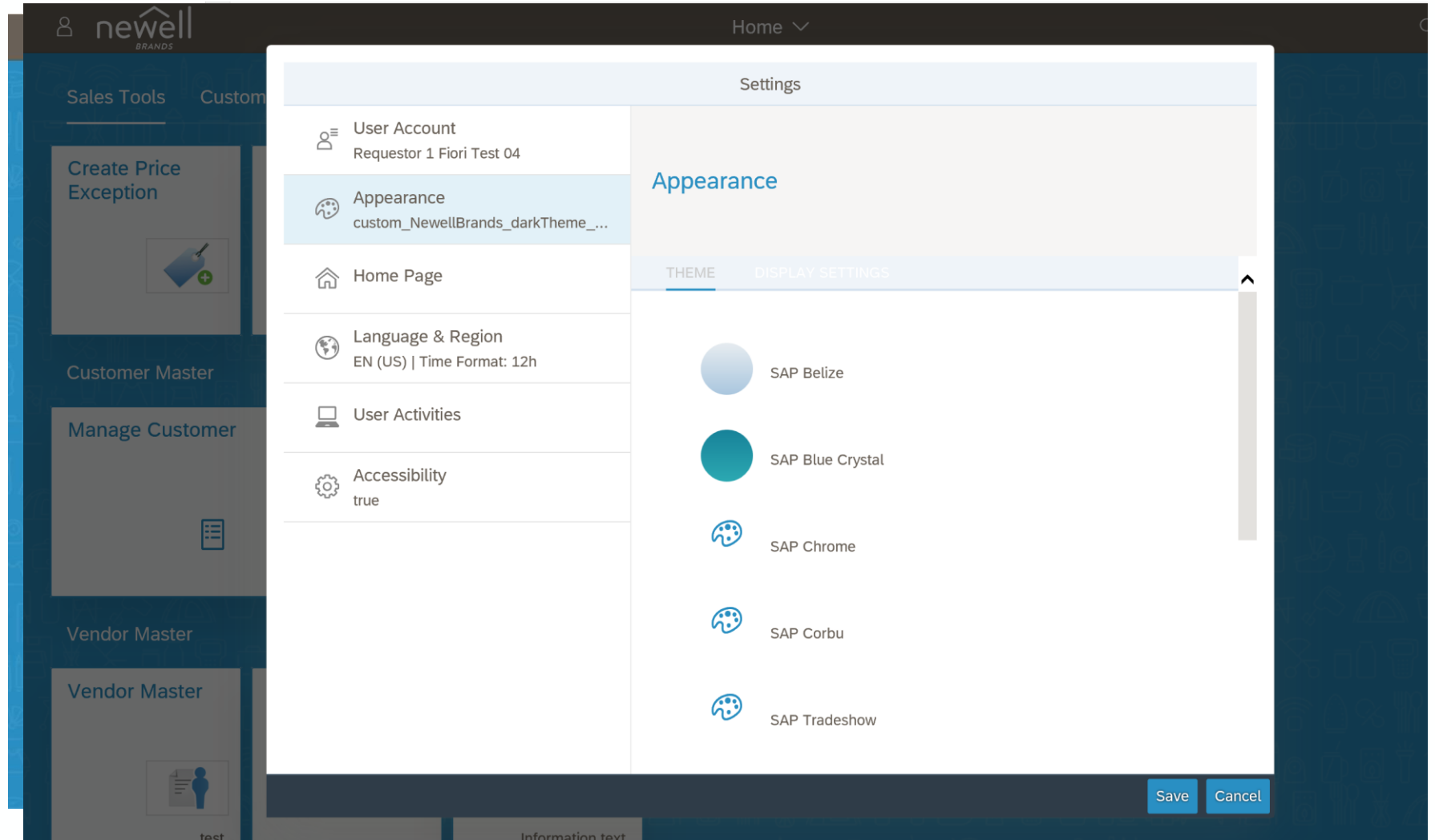
- Increased transparency and responsibility
- Accurate and faster access to employee data for timely decisions on promotions etc.
- Saved enormous time and effort
- Allowed more controls thereby lowering the risk of under utilization of resources
- Improved the productivity of process and personnel
- Lead time reduction

Architecture



FLP @ EP

- Fiori launchpad on EP as the entry point to UI5/Fiori/WD apps.
- The page features tiles that allow the user to launch apps, and which may also show additional information.
- The page can be personalized and tiles can be added, removed, or bundled in groups. Since the launchpad is role-based, only apps relating to the user's role are displayed.



Customer Master Module

- Goal - Standardize our Customer master request form globally by using our corporate standard, UI5/workflow tool, and integrating it into SAP
- Tool impacts
Global/Regional/Country functional teams
- Master data requirements & rules
- Method of governance (approval vs notification)



Customer Master Module - Request Form

- Region/Request Type
 - Add, Change, Extend
- Request Subtype
 - Examples:
 - Sold to
 - Additional Shipping Location
 - Sample Ship to Accounts
- Multiple Ways to Navigate the form
 1. Left-hand Menu
 2. Tabs Across the Top
 3. Next button

The screenshot displays the SAP Customer Master Request Form. The interface includes a left-hand menu (1) with options like Request Header, Customer Details, Profile, Name & Address, Additional Info, Communication, Credit & Payment Info, Tax Information, Reporting & Pricing, Order Management, Shipping Information, Defaults, Attachments, Comments, and History. The top navigation bar (2) shows tabs for Overview, Manage Customer, Worklist, Manage SOA, and History/Search. The main content area displays customer details for Request Id 1000000138, Business Region NOAM - North America, and Company Code 1780 - SANFORD LP. It also shows fields for Customer Name, Reason for New Customer, Expected Annual Sales, First Order Value, Description of Non Standard Payment terms, Invoicing Currency, Customer's Sold to Country, Customer's Delivered To Countries, Freight Terms Requested, Payment Terms Requested, Invoicing Currency, and Pricing Options (MAPPING MISSING). A 'Next' button (3) is located at the bottom right of the form.

Customer Master Module - Worklist

- Allows users to see all requests created by them as well as requests requiring their action
- Ability to filter requests in the worklist by
 - Type,
 - Subtype
 - Status
 - Role
 - Sales Org
 - Company Code

The screenshot displays the SAP Customer Master Worklist interface. At the top, there is a search bar with 'SAP KM Search' and a 'Go' button. Below the search bar, there are tabs for 'Customer Master', 'Material Master', and 'Vendor Master'. The 'Customer Master' tab is active, and the 'Worklist' sub-tab is selected. The main area is titled 'Precision Work List' and contains a filter section with fields for 'Type', 'Sub Type', 'Status', 'Role', 'Sales Org', and 'Comp Code'. Below the filter section, there is a table of 'Work List Items (69)'. The table has the following columns: Request Id, Type, Sub Type, Status, Role, Q Date, Sbm Date, Expected Completion Date, Sales Org, Comp Code, Workflow Status, and Mass upload Flag. The table contains several rows of data, including requests for 'Additional Customer Shipping Location' and 'Customer Sold To'.

Request Id	Type	Sub Type	Status	Role	Q Date	Sbm Date	Expected Completion Date	Sales Org	Comp Code	Workflow Status	Mass upload Flag
1000000085	Add	Additional Customer Shipping Location	Draft	Requestor				US01	1780		>
1000000086	Add	Additional Customer Shipping Location	Draft	Requestor				US01	1780		>
1000000087	Add	Additional Customer Shipping Location	Draft	Requestor				US01	1780		>
1000000041	Add		Draft	Requestor							>
1000000043	Add	Customer Sold To	Draft	Requestor				CA01			>
1000000044	Add	Customer Sold To	Draft	Requestor				CA01			>
1000000045	Add	Customer Sold To	Draft	Requestor				CA01			>
1000000046	Add	Customer Sold To	Draft	Requestor				US01	1780		>

Customer Master Module - History/Search

Search by one or more of the fields below to locate request:

- Request ID
- Request Type
- Request Subtype
- Status
- Business Region
- Sales Organization
- Company Code
- Division
- Requester User ID
- Approver ID
- Customer No
- Customer Name
- Project Name
- Submitted Date

newell BRANDS

Search: SAP KM Search | New Session | This is PJ2 (Dev) | Log off

Customer Master | Material Master | Vendor Master

Overview | Manage Customer | Worklist | History/Search

Precision Customer Master

Search Request History

Standard

Request ID: 1000000003 | Request Type: | Request Sub Type: | Status: | Business Region: | Sales Organization: | Company Code: | Division: | Requestor Id: |

Approver Id: | Customer No: | CustomerName: | Project Name: | Submitted Date: | Closed date: |

Please Search based on Request Id

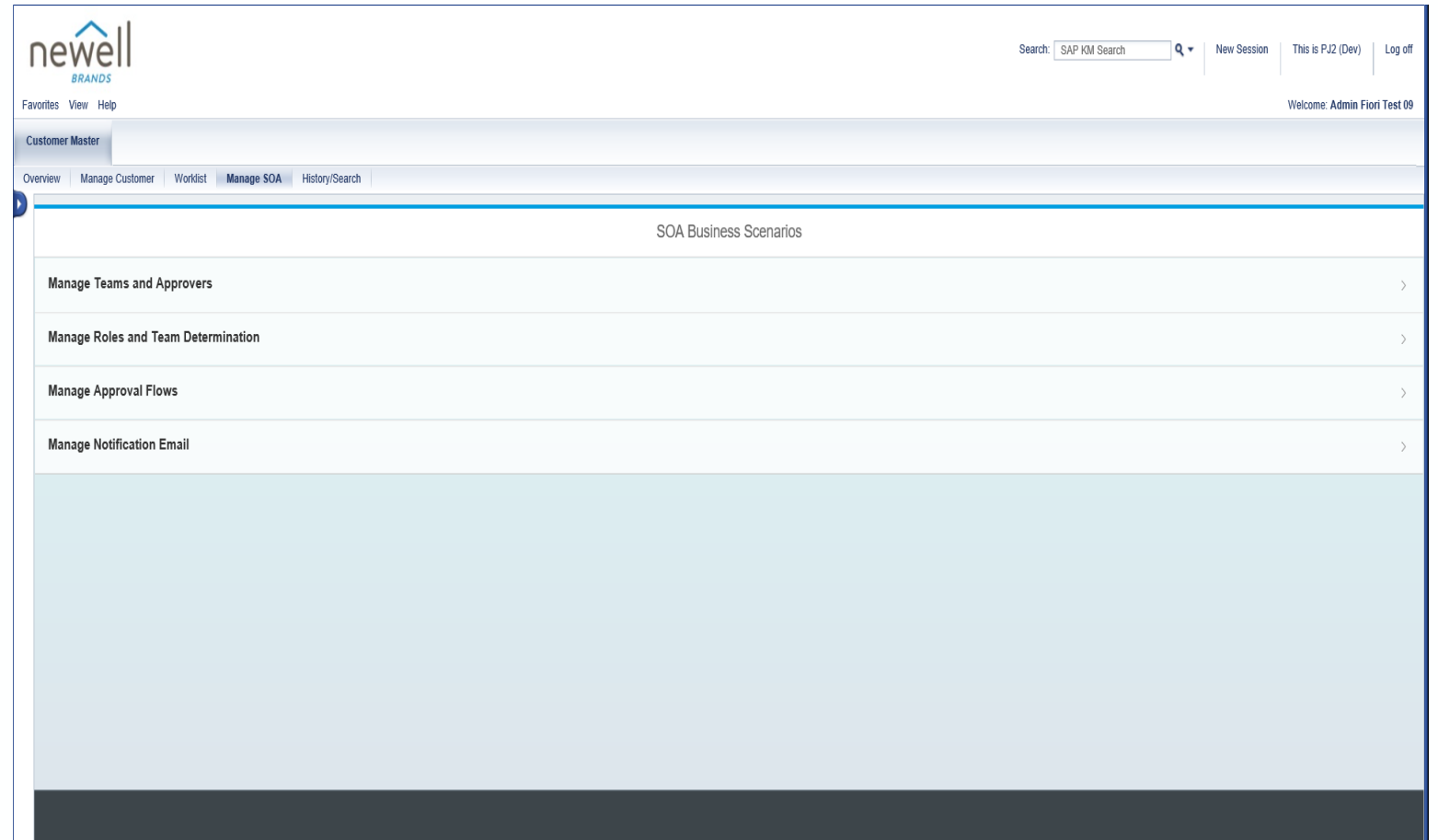
Total Number of Request (1)

Request Id	Request Type	Request Sub Type	Status	Business Region	Sales Organization	Company Code	Division	Submitted Date	Closed date
1000000003	Add	Credit Customer	Draft	NOAM	CA01	2100	40		

Actions History | Audit History

Customer Master Module-Manage SOA

- Ability to ADD/Remove
 - Roles
 - Workflow
 - Teams
 - Approvers
- Ability to Associate Teams to Roles
- Ability to change the order of the Roles in the approval process
- Ability to maintain email notifications



Employee Direct Access

- Goal to allow employees to update their own personal information.
- Simplify user interface to reduce calls to HRSC
- Mobile application to work on multiple devices
- Replace Web Dynpro ABAP application
- Integrate with existing SAP infrastructure and tables
- 19000+ users at Newell
- SAPUI5 User Interface
- Servlets to communicate with SAP R/3
- Accessed through Newell Central portal

View Pay Slips

Update Dependents

Add/Edit Direct Deposit

Update Personal Info

W2 / W4

Address

Corporate Policies

Manager Direct Access

- To allow managers to initiate HR changes for their direct reports and allow HR Admins to initiate HR changes or on behalf of managers.
- Simplify user interface to reduce calls to HRSC
- Mobile application to work on multiple devices
- Replace emails, spreadsheets and phone calls
- Integrate with existing SAP infrastructure and tables
- 5000+ users at Newell
- SAPUI5 User Interface
- OData services to communicate with SAP R/3
- Accessed through Newell Central portal
- Forms can be submitted by HRSD on behalf of managers
- All forms goes through workflow for approval



Time Tracking Application

- Goal to capture time spent by employees on projects in IT landscape
- Simplify user interface to reduce time spent entering time
- Mobile application to work on multiple devices
- Replace Web Dynpro Java application
- Integrate with existing SAP infrastructure and tables
- 500+ users at Newell
- Cordova and SAPUI5
- Apple Push Notification Service (APNS) and Google Cloud Messaging (GCM)
- OData services to communicate with SAP R/3
- Application deployed on Android and iPhone devices
- Deployed and updated using MaaS360

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Presentation Materials

Access the slides from 2019 ASUG Annual Conference here:

<http://info.asug.com/2019-ac-slides>

Q&A

For questions after this session, contact us at [email] and [email].

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