



xRP Framework Fundamentals

Dhiren Chhapgar & Ruslan Devyatko

Acumatica Labs Team Members







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Why attending this session?





Is it really fast to create new screens with xRP Framework?



Is it easy to customize standard Acumatica ERP screens?



How can a custom screen be exposed via Web services?





xRP Framework





Architected for scale, performance, and flexibility



Spend time building your application leveraging Acumatica platform and not building the basics



Application to market in months, not years by leveraging rich platform features and pre-built ERP functionalities





xRP Framework





Create custom Fields



Add Business Logic



Create new Pages



And much more!





Building a Custom Data Entry Screen

Rental Orders Example





Is your next event covered by our tent?





Rental Orders – Document Details



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_	St * Da	CUM	ENT DE	TAILS	cess /2017 ¬		NFORM	₽ •	V	* Customer: * Due Date: Description:	2/16/2017	IDE - USA Bartendi 🔎 v event in Nashville	£	Ordered (29 2,547	.00		•
	c د	+			x						Quantity		Don	tal Price					Ext. Pri	
			*Invent	_									Ken							
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Rental Orders – Shipping Information



Revision Two	HQ + Re	ental Ord	ers 🚖	,				NOTE	S FILES C	USTOMIZATION	TOOLS ▼
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Order Nbr.:	SO004118		٥		* Customer:	ABARTENDE - USA Bar	rtendi 🔎	£	Ordered Qty.:	29.0	A
	Hold				* Due Date:	2/16/2017 🔻			Order Total:	2,547.0	2
Status:	In Process		*		Description:	Afterparty event in Nashv	ville				
* Date:	12/21/2017	-									
DOCUMENT DETA		IPPING INFO)RMATIO	N		SHIP-TO ADDRESS ——					
Business Name:	US	SA Bartendin	g School			Address Line 1:	203 Lo	wer No	otch Rd		
Attention:						Address Line 2:					
Phone:	+1	(908) 532-95	522			City:	Little F	alls			
Email:	bai	rkeep@usab	artend.co	n	\boxtimes	* Country:	US - U	nited \$	States of America	٥	
						State:	NJ - NE	EW JE	RSEY	٥	
						Postal Code:	07424				



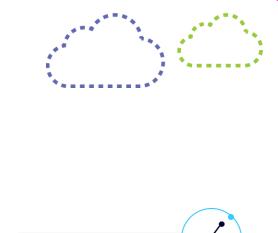


Entity-Relationship Model



RentalOrder								
PK	CompanyID	int						
PK	OrderNbr	nvarchar(15)						
	OrderDate	datetime2						
	Status	char(1)						
	Hold	bit						
	CustomerID	int						
	DueDate	datetime2						
	Description	nvarchar(255)						
	OrderQty	decimal(25, 6)						
	OrderTotal	decimal(19, 6)						
	FullName	nvarchar(255)						
	Salutation	nvarchar(255)						
	Phone1	nvarchar(50)						
	EMail	nvarchar(255)						
	AddressLine1	nvarchar(50)						
	AddressLine2	nvarchar(50)						
	City	nvarchar(50)						
	State	nvarchar(50)						
	CountryID	nvarchar(2)						
	PostalCode	nvarchar(10)						
	LineCntr	int						
	NoteID	uniqueidentifier						
	CreatedByID	uniqueidentifier						
	CreatedByScreenID	char(8)						
	LastModifiedDateTime	datetime						
	tstamp	timestamp						

	RentalLine											
	PK	CompanyID	int									
\leq	PK	OrderNbr	nvarchar(15)									
	PK	LineNbr	int									
		ProductID	int									
		OrderQty	decimal(25, 6)									
		RentalPrice	decimal(19, 6)									
		LinePrice	decimal(19, 6)									
		NoteID	uniqueidentifier									
		CreatedByID	uniqueidentifier									
		CreatedByScreenID	char(8)									
		CreatedDateTime	datetime									
		LastModifiedByID	uniqueidentifier									
		LastModifiedByScreenID	char(8)									
		LastModifiedDateTime	datetime									
		tstamp	timestamp									









Rental Order

Creating a New Page in Browser





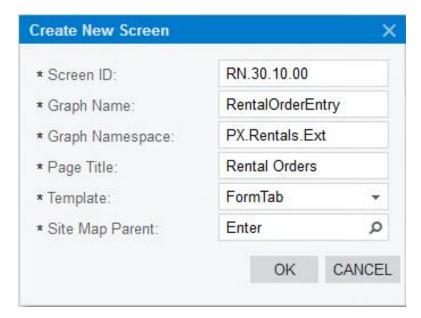
Business Logic Controller



Aspx page



Site Map node







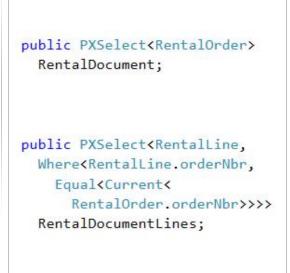
Rental Orders - Document Details



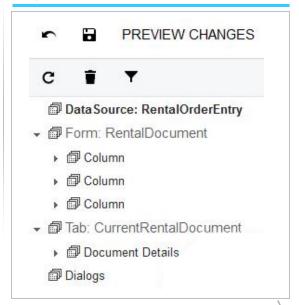
Data Access



BLC Code



Layout Editor



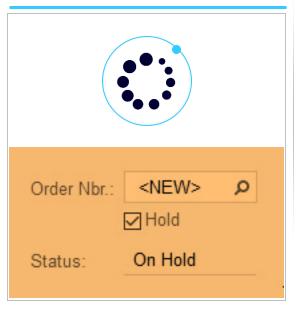




Implementing Business Logic



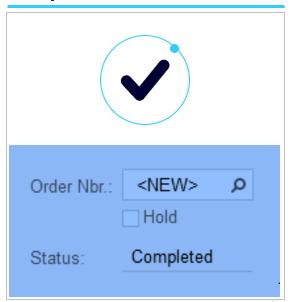
On Hold



In Process



Completed







Rental Orders – Shipping Information



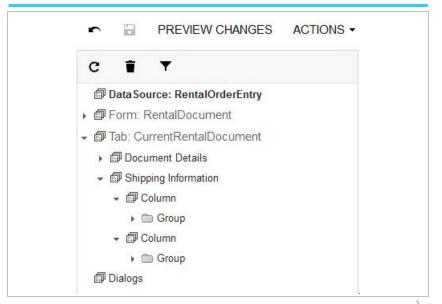
BLC Code

```
public PXSelect<RentalOrder> RentalDocument;

public PXSelect<RentalOrder,
  Where<RentalOrder.orderNbr,
    Equal<Current<RentalOrder.orderNbr>>>>
  CurrentRentalDocument;

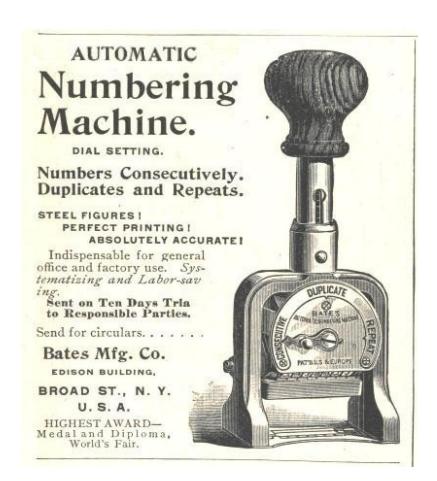
public PXSelect<RentalLine,
  Where<RentalLine.orderNbr,
    Equal<Current<RentalOrder.orderNbr>>>>
  RentalDocumentLines;
```

Layout Editor











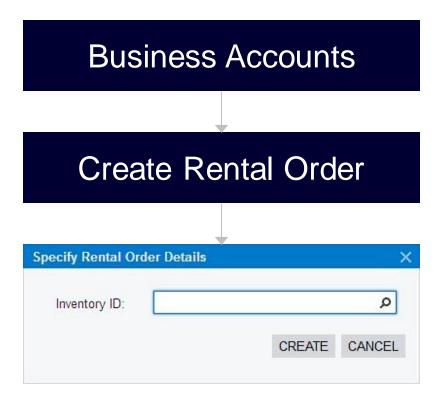


Customizing an Acumatica Screen

Business Accounts Example



Customizing Business Accounts





Rental Order

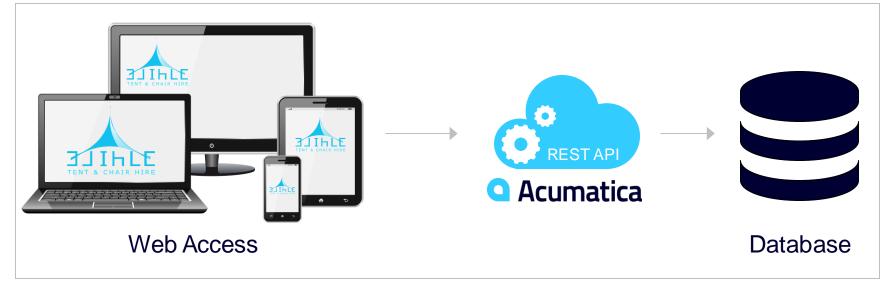


Working with a Custom Screen though the Web API

Rental Orders Example



Creating new Rental Orders via Rest API







Want to learn more?





- Help → Customization Guide
- Help → Acumatica Framework Guide
- T- and I-series courses at Acumatica University
- StackOverflow: Tag [acumatica] & [acumatica-kb]







Thank you

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