

Creating offline mobile apps with Mendix

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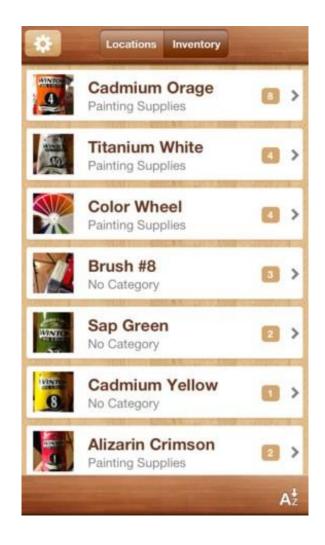


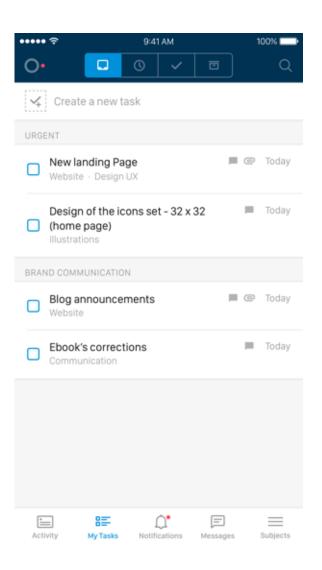






Use cases





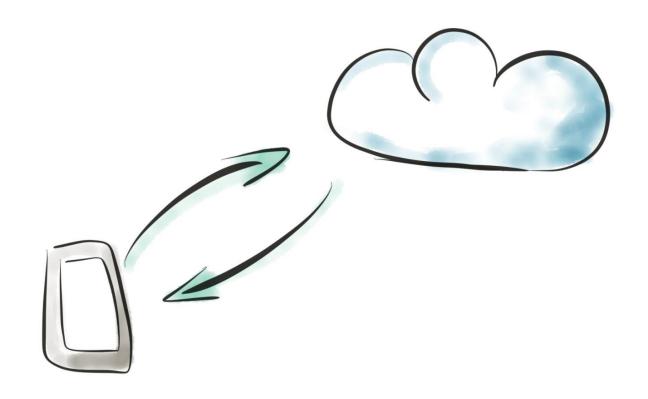


Great! How does it work?

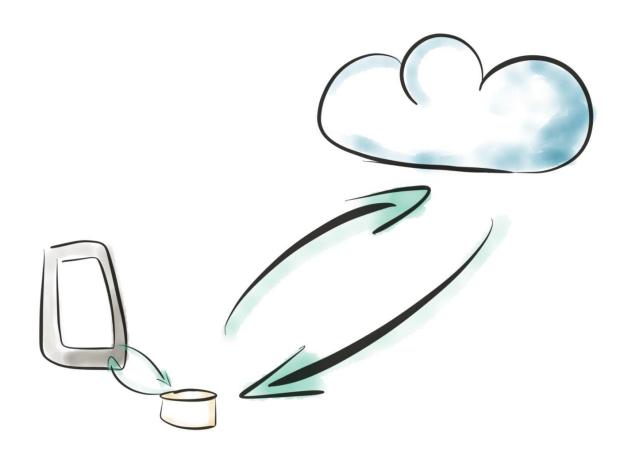


Offline apps always work

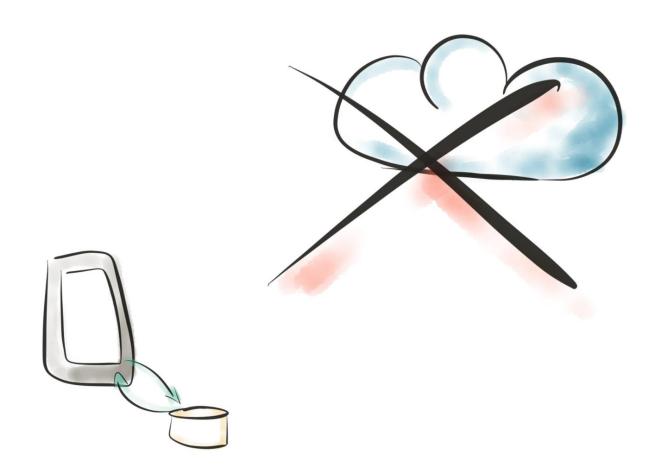












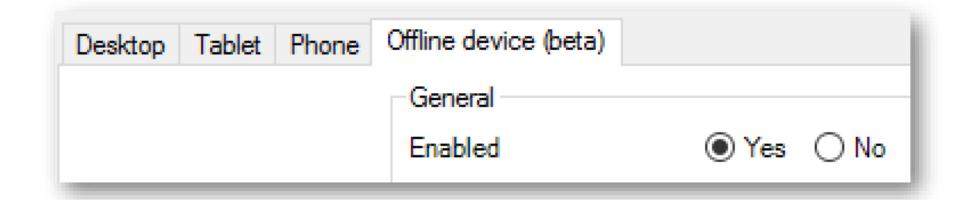


Limitations

- No Microflows
- No Xpath
- Create data only



How do you turn it on?





Tips & tricks for Offline Mobile

MxWorld App 2016





Lessons learned

- Design for offline
- It can be more difficult
- Simple model
- Better performance
- Synchronization





Use case: Inspection app



Candix

- A candy machine lease company
- Inspector inspects the leased machines onsite for:
 - Defects
 - Restocking









Candix Inspection App

Offline capable app for inspecting the leased candy machines

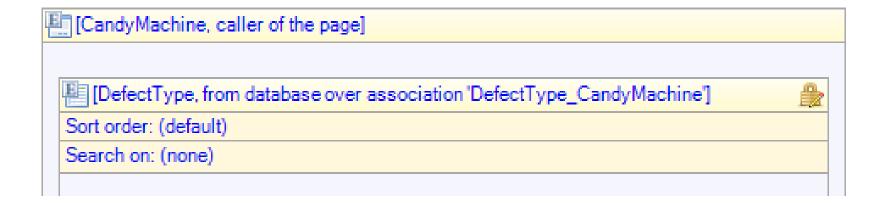


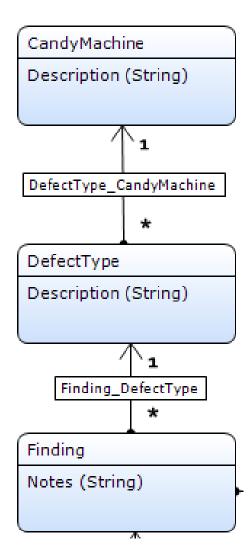


As an inspector I only want to see the possible type of defects for the current Candy machine



Navigate via associations



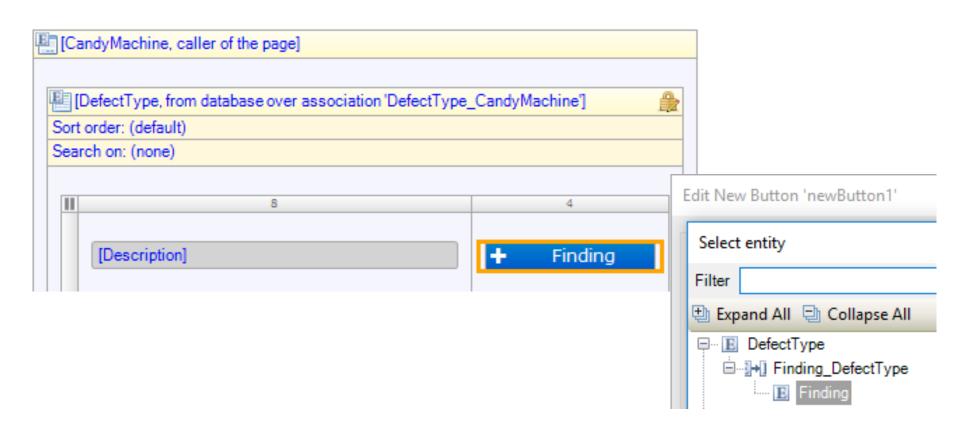




As an inspector I want to create a finding related to a defect type and Candy machine

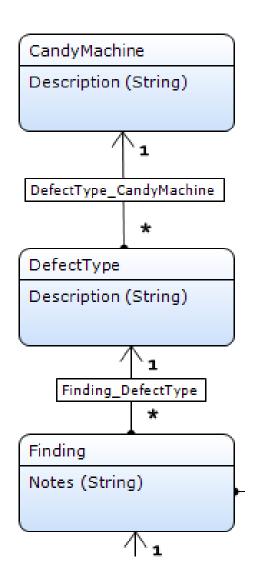


Set associations via New buttons



Since 6.3 a New button sets the association to the current object. This reduces the need for microflows





As an inspector I want verify that the to be refilled candy is available



After commit microflows

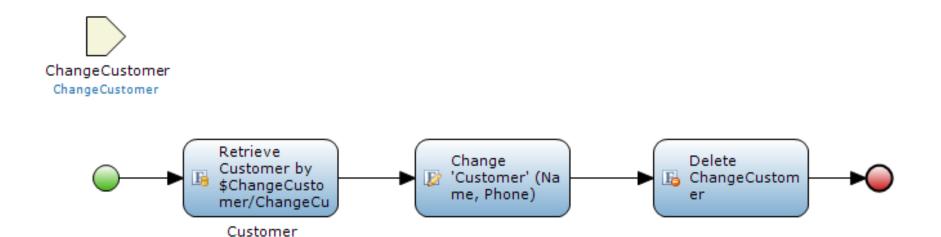
- When data is synchronized After commit event handlers are triggered
- Validation
- Other logic
- Handle synchronization issues

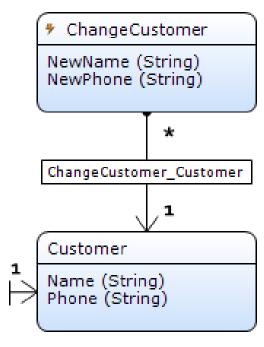


As an inspector I want to change the phone number of the customer



Change Objects







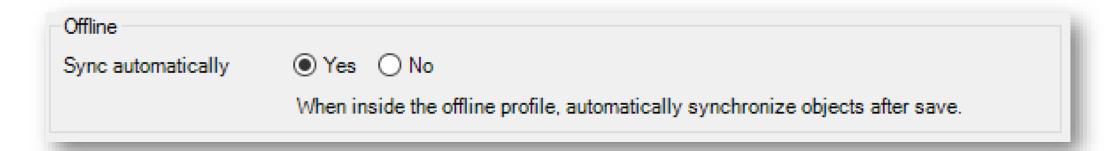
Customer

As an inspector I want to synchronize my data



Synchronizing

- Save on sync
 - Synchronize after clicking the save button
- At startup
- Sync button





As a developer I want to create a valid model that is offline capable



Model validation & Home page

Desktop Tablet Phone Of	fline device (beta)	
(General	
1	Enabled	
		If a device type is disabled, it will not be used to determine the home page when users visit the application.
,	Application title	Mendix
-	Home pages	
	Default home page	CandyMachine.Phone_Home



As a developer I want to create a widget that is offline capable



Offline capable widgets

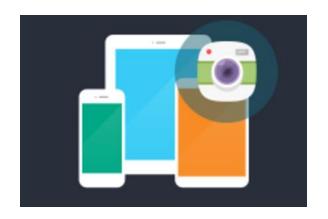


Summary

- Navigation via associations
- New button to set associations
- After commit microflows
- Change objects
- Sync on save option
- ► Home page offline = home page online
- ▶ offlineCapable=true for widgets

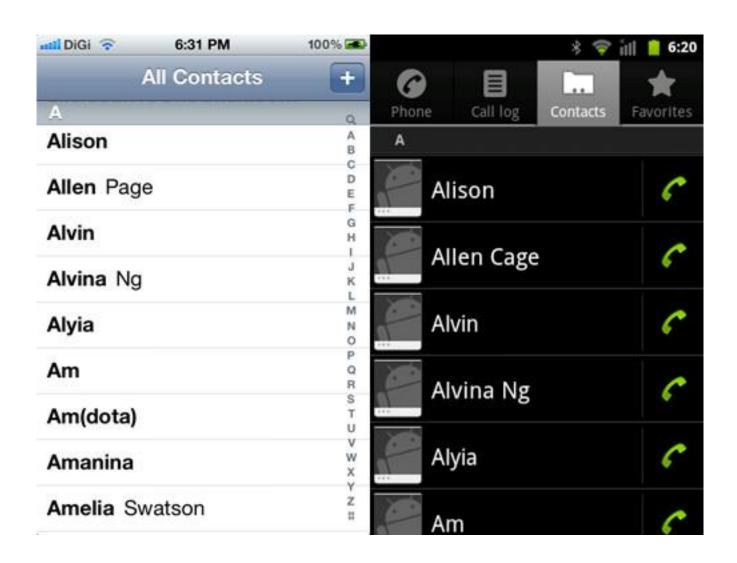


Camera – offline!





Add to contacts



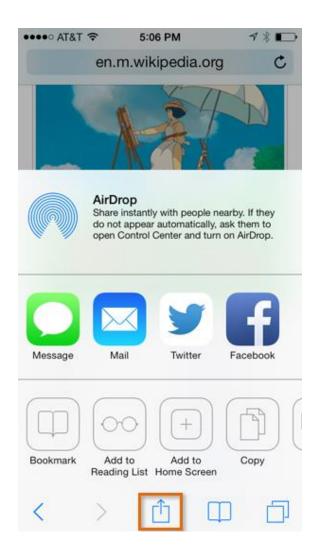


Add to calendar (soon)





Native share (soon)





Navigate directly (soon)





- Hybrid online
- Improved conditional visibility



Thank you!



Questions?



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