

Ajax Interaction



Topics

- Ajax Interaction
- Using Ajax in Screen Actions
 - Ajax Refresh
 - Refresh Data
- Screen Lifecycle with Ajax
- Additional Ajax features
 - Ajax-enabled Widgets



Ajax Interaction

Ajax allows web pages to change content dynamically

No need to reload the entire page

How does it work?

- Sends small asynchronous requests to server
- End user continues to interact with the Screen
 - No need to wait for response
 - Page state is kept

Why use Ajax?

End-user experience greatly improved

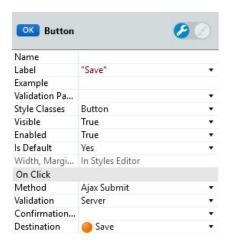


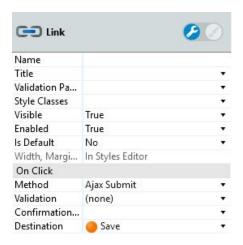
Using Ajax in Screen Actions

Set the Link / Button's *Method* to **Ajax Submit**

Set the Destination to a Screen Action

- Preparation does not run
- Only the explicitly specified parts of the Screen are rebuilt (or refreshed)







Ajax Refresh

Refreshes part of the Screen, with optional animation effect

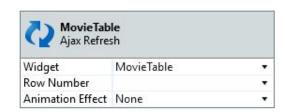
Rebuilds the specified Widget on the Screen

- Response contains only the refreshed
 Screen content
- Available for named Widgets only

Multiple Ajax Refresh calls in the same Action will be executed in order

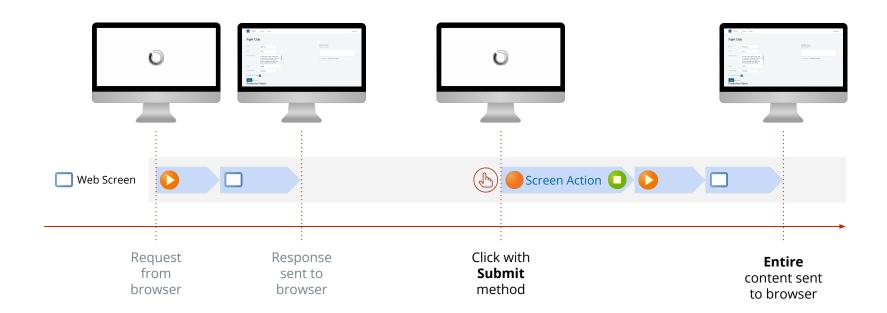
Ignored if *Method* is not Ajax Submit





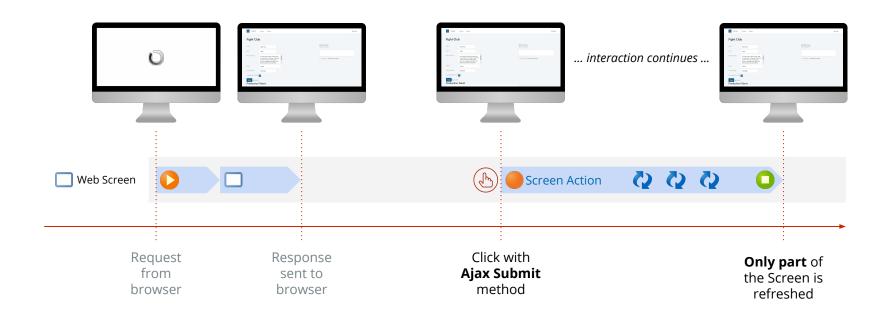


Recap: Submit Lifecycle





Ajax Submit Lifecycle





Refreshing Data

Re-executes an Aggregate or SQL Query

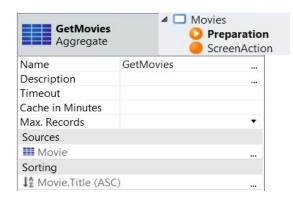
Refreshes data from any query in the Preparation

 Only the explicitly refreshed queries will be executed

Needed before **Ajax Refresh** over Widgets that depend on Preparation queries

Guarantees that the source data is up to date









Additional Ajax Features

Row Number in Ajax Refresh

- Only available in Table / List Records
- Refreshes a single row of the Widget

System Actions with Ajax

- ListRemove, ListAppend, ListInsert
- Only when used on Table / List Records
- Applies the Action to the **List** and refreshes the Widget afterwards





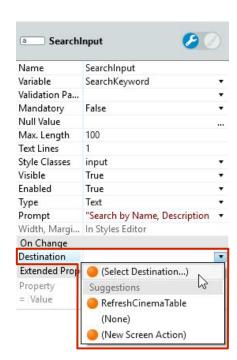
ListRemov Run Server	*** *********************************	
Name	ListRemove	
Action	ListRemove	•
Animation Effect	Fade	•
List	MovieTable.List	•
Position	MovieTable.List.CurrentRowNumber	•

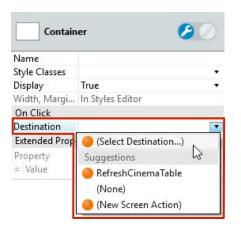


Ajax-enabled Widgets

Widgets that trigger Actions with Ajax

- When the user clicks on them.
 - Container
- When the user changes their value
 - Input / Input Password
 - Combo / List Box
 - Check Box
 - Radio Button







Summary

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