



Web Blocks

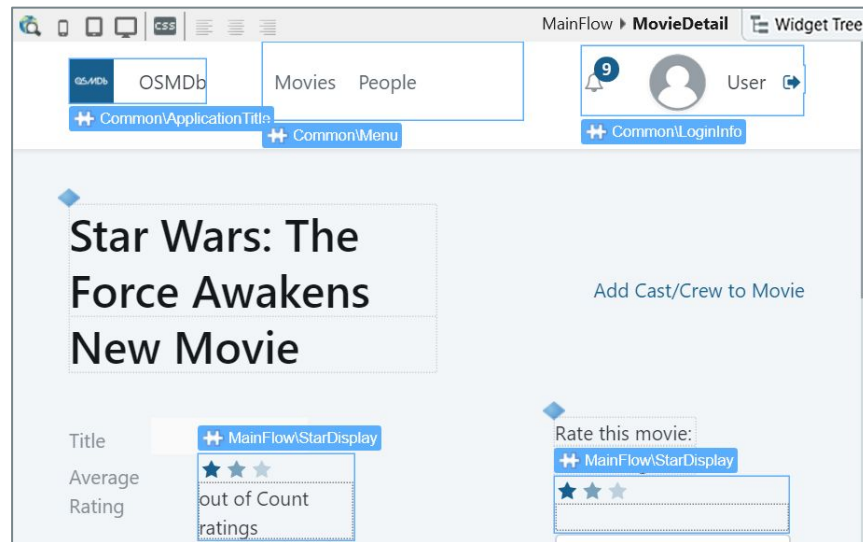


Topics

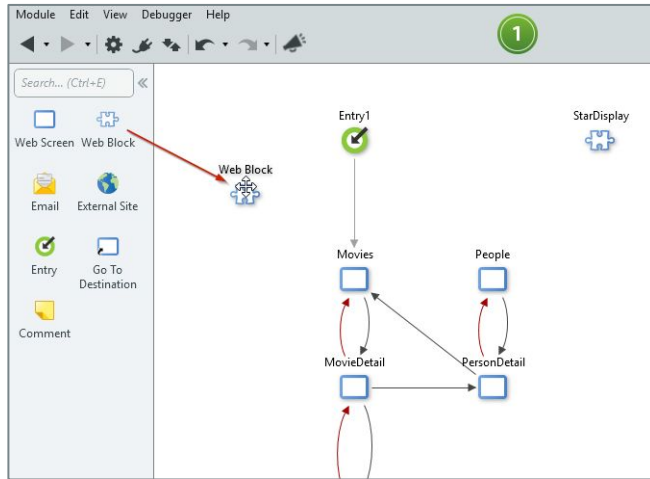
- Creating a Web Block
- Designing and Using Web Blocks
- Web Block Interactions
 - Events
 - Event Handlers
- Screen Lifecycle with Web Blocks

Web Blocks

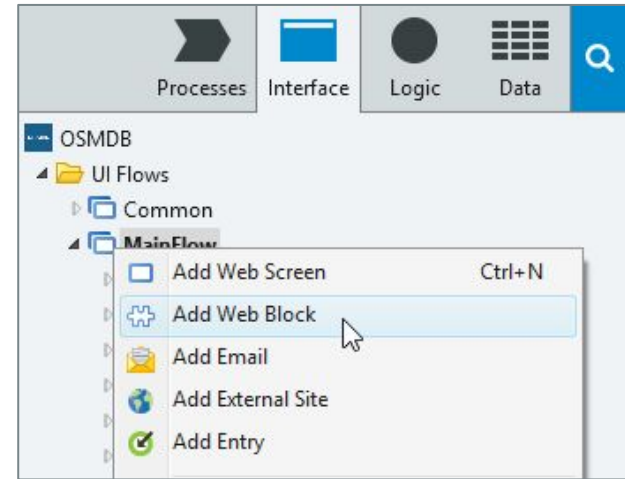
- A Web Block is a **reusable UI** component
- Web Blocks promote reusability
 - Develop once, use many times
 - Encapsulates its own logic
- Web Blocks improve maintainability
 - Changes are reflected on every Screen that uses the Web Block



Creating Web Blocks



Drag and Drop



UI Flow context menu

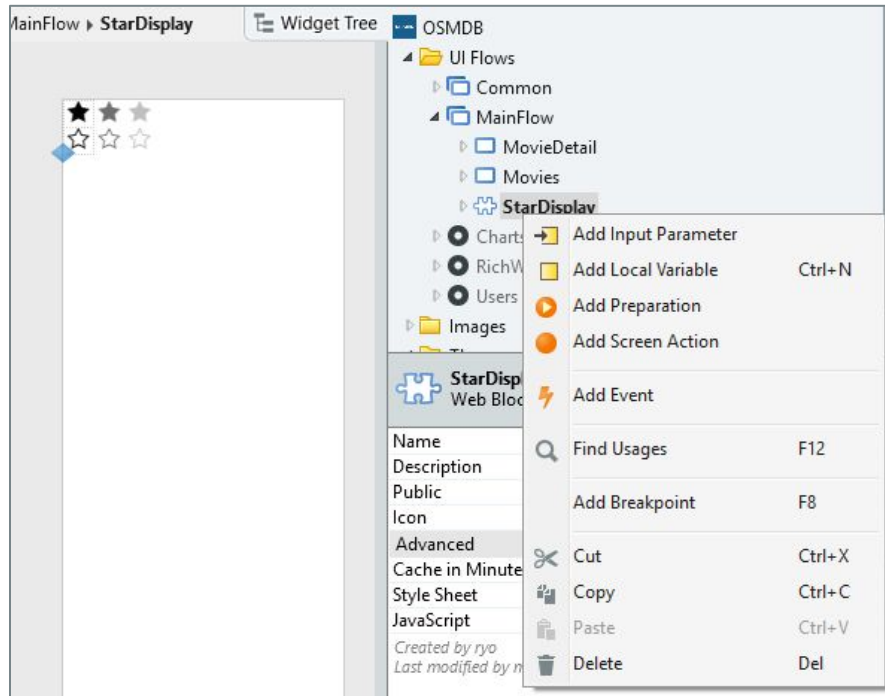
Designing Web Blocks

Web Blocks are designed just like Screens

Web Blocks can have:

- Input Parameters
- Local Variables
- Preparation
- Screen Actions
- **Events**
- **Placeholders**

Web Blocks do **not** have
Output Parameters

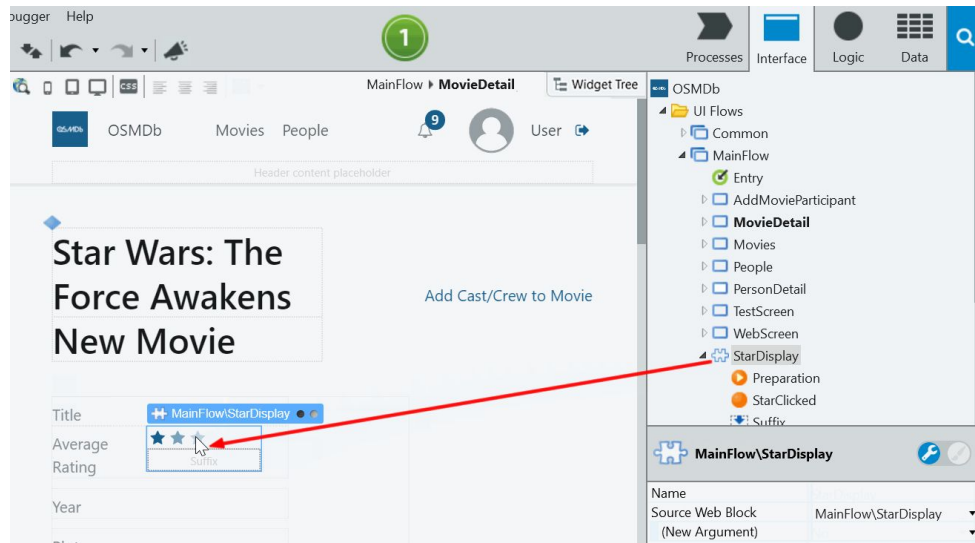


Using Web Blocks

Web Blocks can be placed inside a Web Screen or another Web Block

- **Parent** of the Web Block
- Recursion not allowed

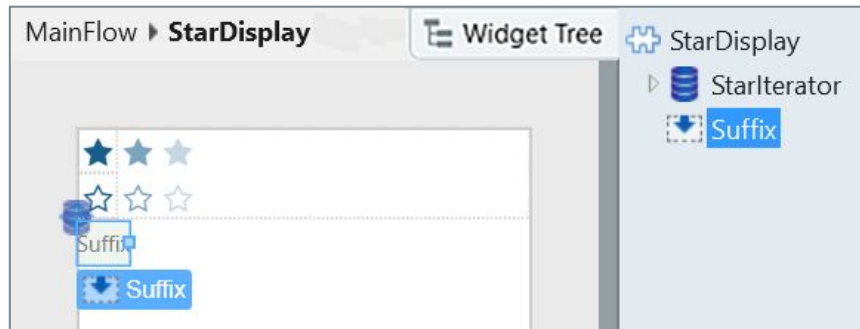
Parents can have multiple instances of a Web Block



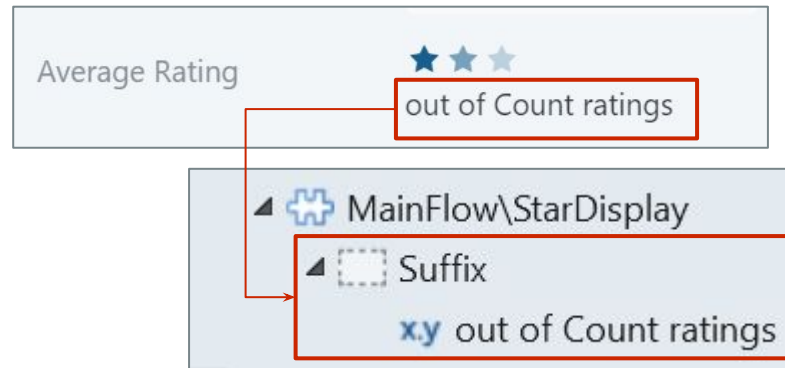
Placeholder Widget

- Only available inside Web Blocks
- Reserves space for dynamic content defined when instantiated

Designing the Web Block

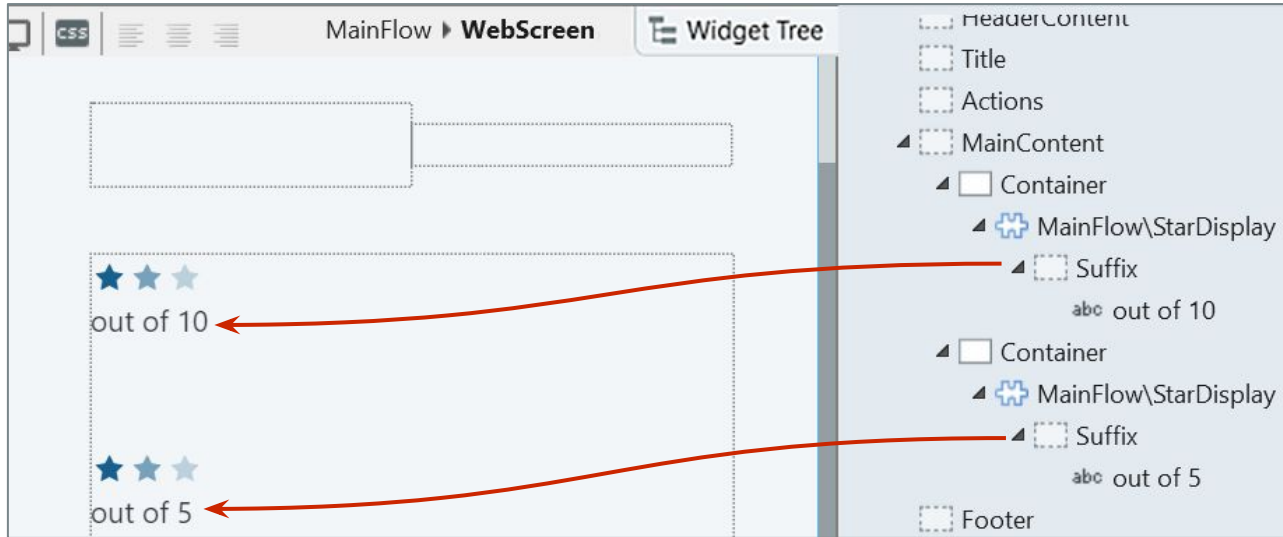


Instance of the Web Block



Dynamic Content in Web Blocks

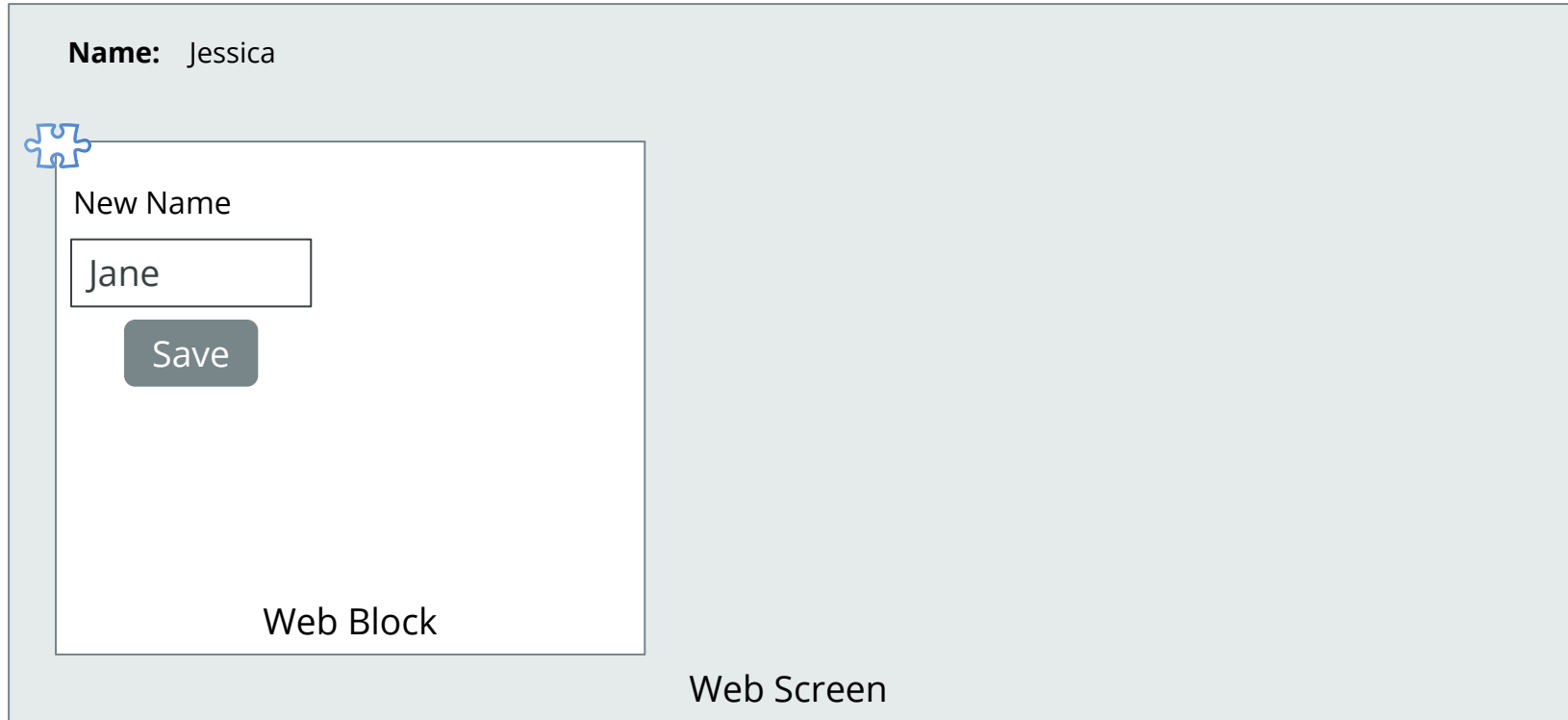
Each instance of the Web Block can have different content inside the Placeholders



Web Block Interactions

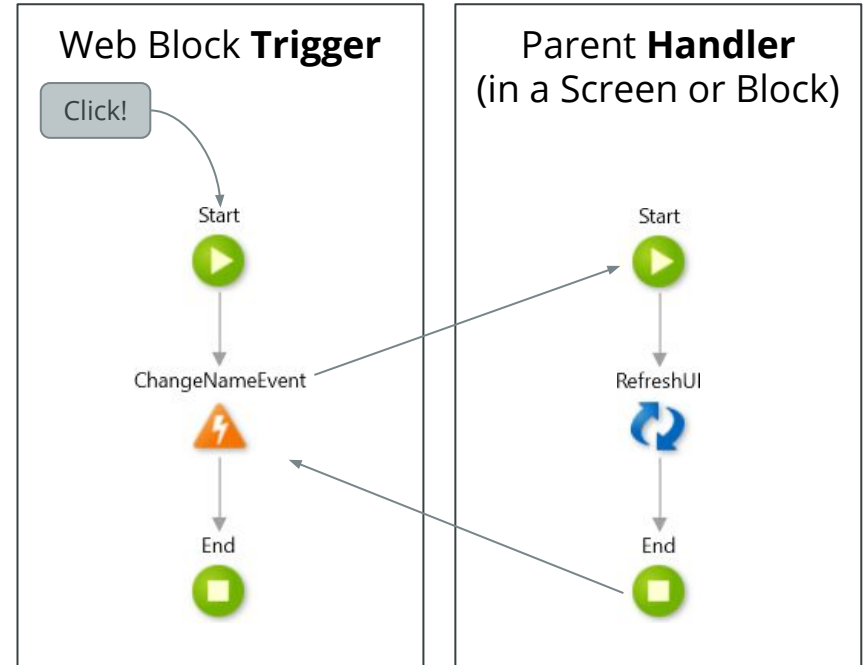


Web Block inside a Screen

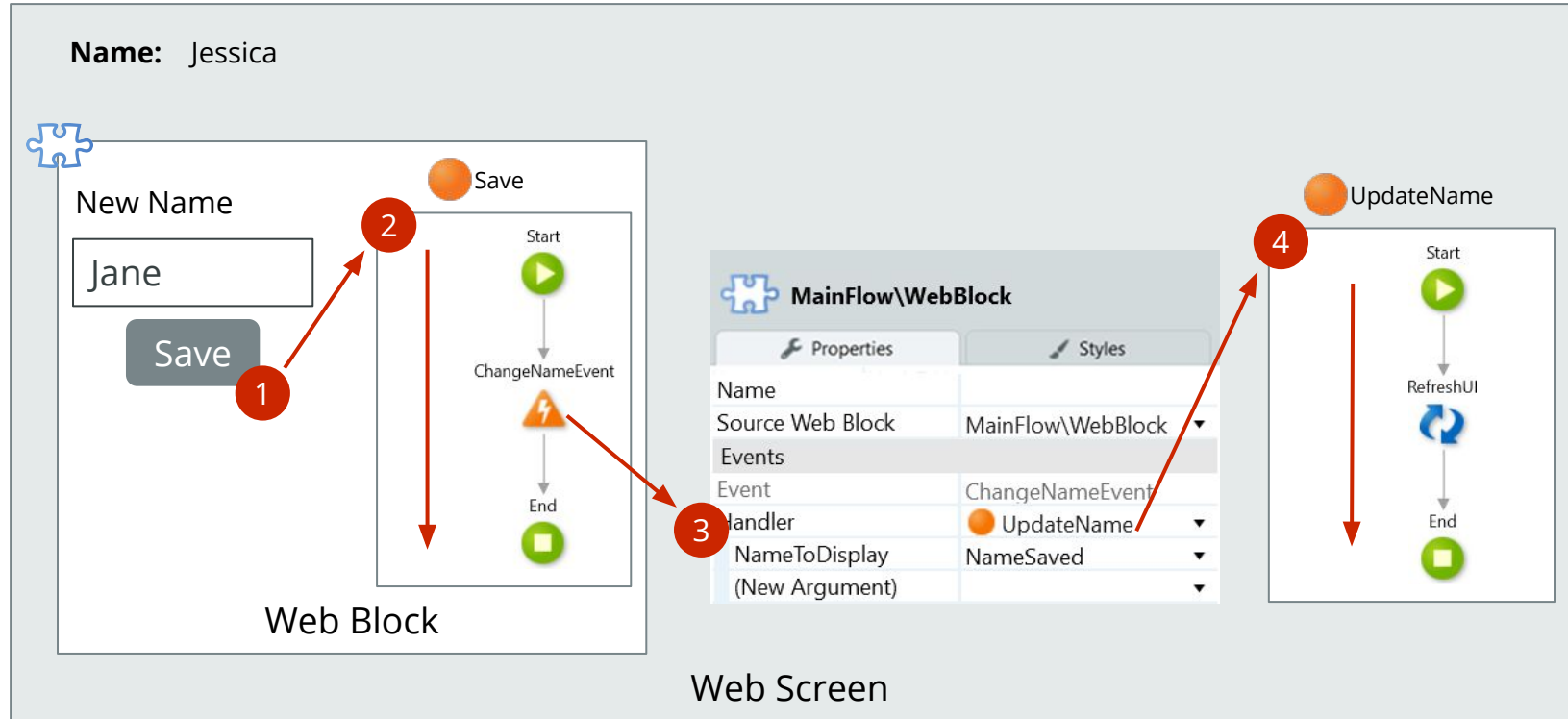


Interaction with the Parent

- Web Blocks have:
 - Their own scope
 - No access to the parent's scope
 - Events to facilitate interaction
- Interaction with the parent is done using events
 - The Web Block **triggers** an event
 - Parent **handles** (reacts to) the event from the block



Triggering and Handling Events

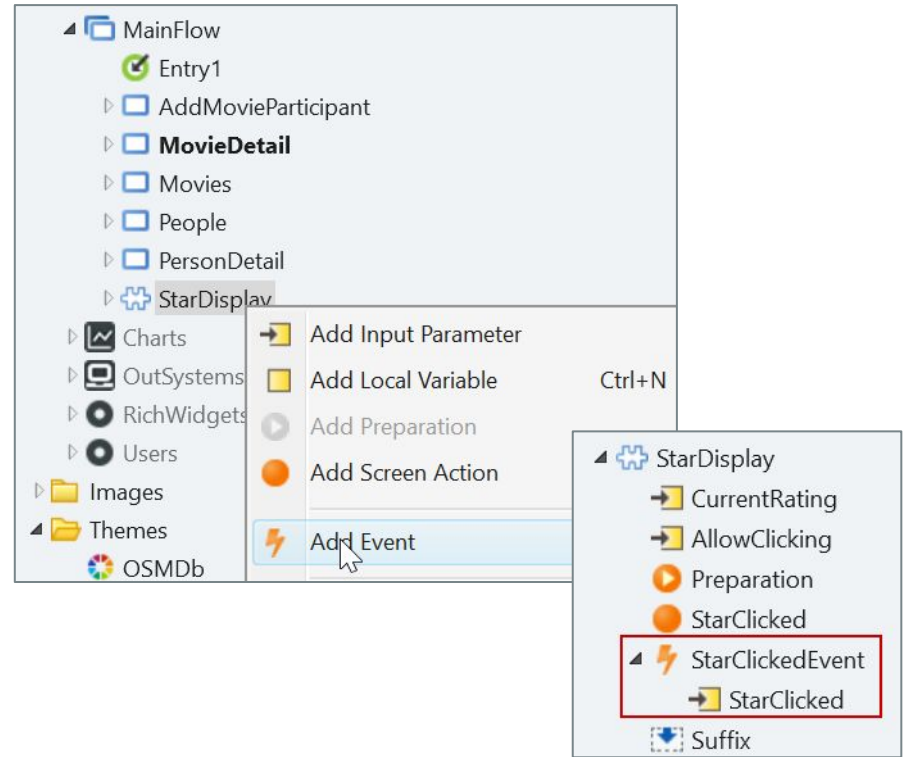


A full-page background image featuring an astronaut in a white spacesuit floating in the black void of space, surrounded by stars. The astronaut is holding a silver laptop in front of their chest. The text 'Events and Event Handlers' is overlaid in white, bold font on the left side of the image.

Events and Event Handlers

Defining Events

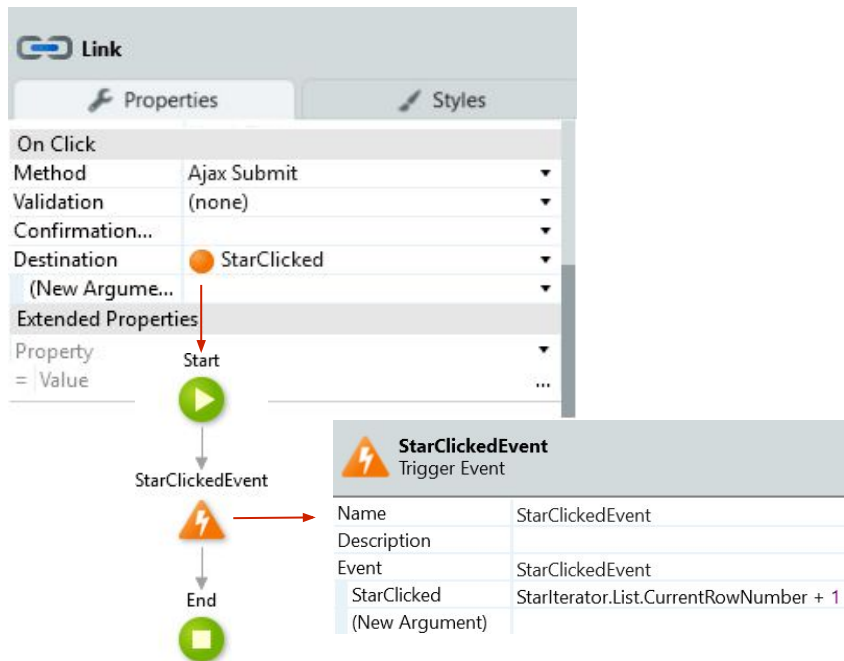
- Events can only be defined in the scope of Web Blocks
- Events can have Input Parameters to send data to the parent
- Input parameters can be defined as mandatory (or not)



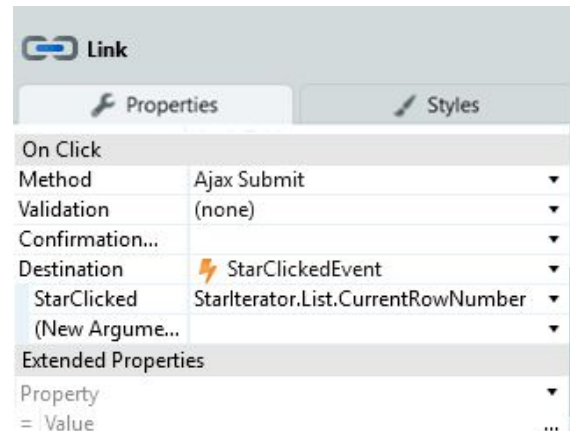
Triggering Events

Events can only be triggered within a Web Block

Inside a Screen Action



Directly as Destination



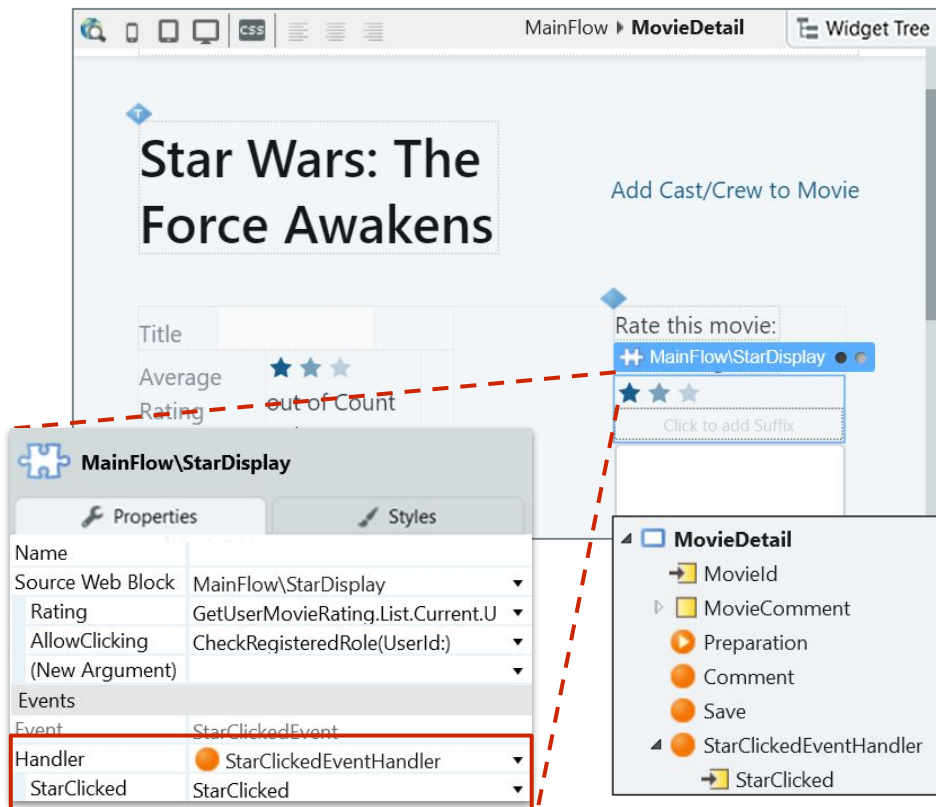
Handling Events

Event handlers

- Screen Actions defined in the scope of the parent
- Specify the logic to handle an Event
- Have access to the Event Input Parameters

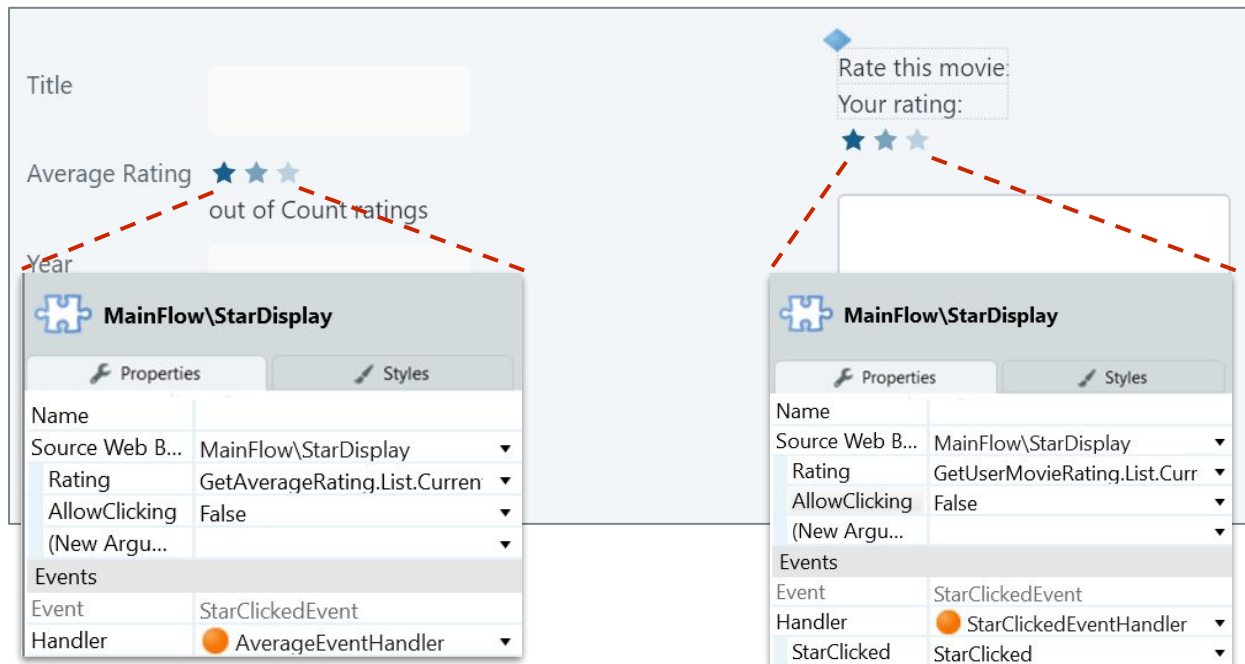
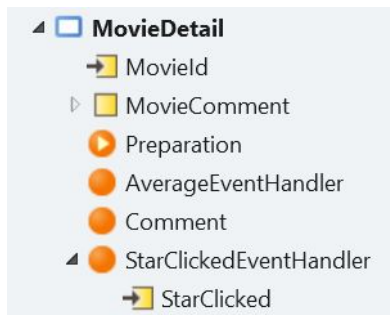
When a Web Block triggers an Event

- The Event handler Action is executed



Different Event Handlers


- Each Handler can use a different Screen Action
- The same Screen Action can be used in multiple handlers



An astronaut in a white spacesuit is floating in the dark void of space, surrounded by numerous small, distant stars. The astronaut is holding a silver laptop in front of their chest. The helmet's visor reflects the surrounding space and the astronaut's face. The overall scene conveys a sense of isolation and advanced technology.

Screen Lifecycle with Web Blocks

Web Blocks Lifecycle

 OSMDB [Movies](#) [People](#) [Login](#)

Fight Club

Title *

Fight Club

Year *

1999

Plot Summary

An insomniac office worker that is looking for a change in life and a devil-may-care soap maker form an underground fight club that evolves into something

Genre

Drama

Gross Takings


98763847

Is Available On DVD

☒

Save

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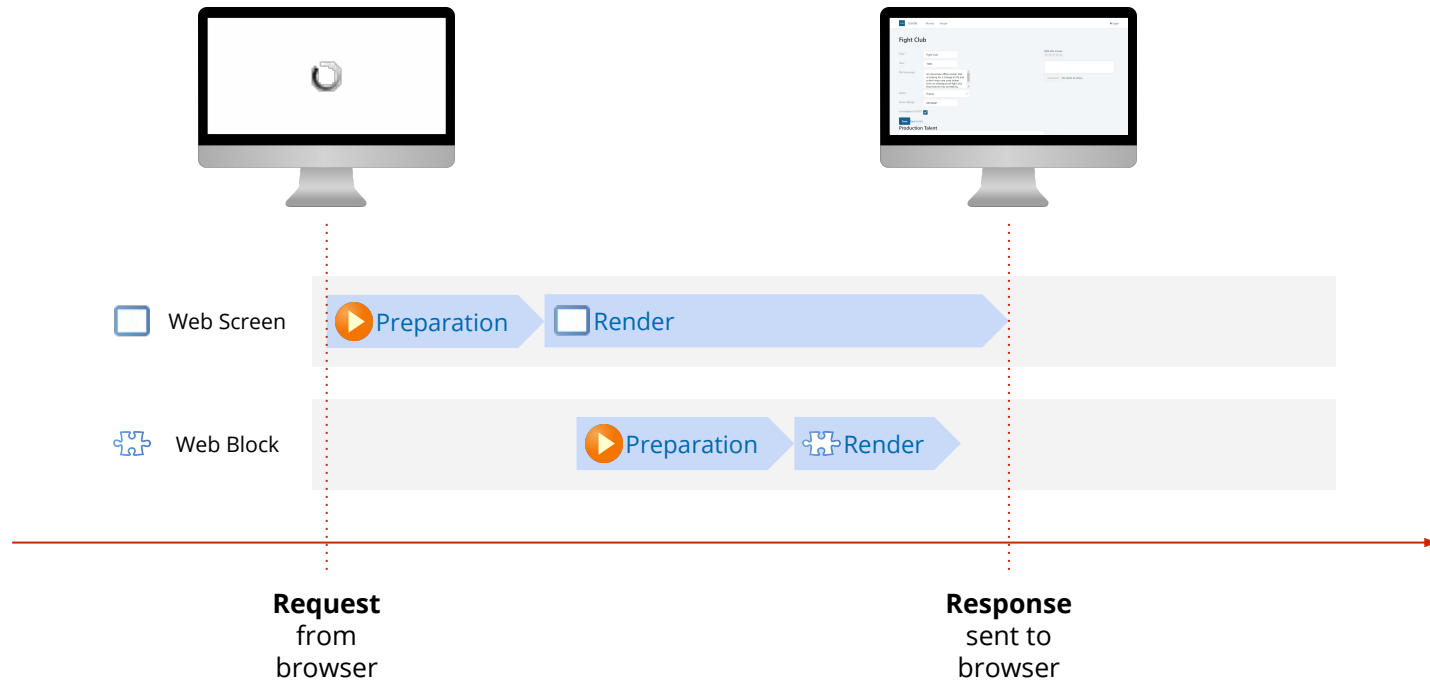
Rate this movie:

☐ ☐ ☐ ☐ ☐

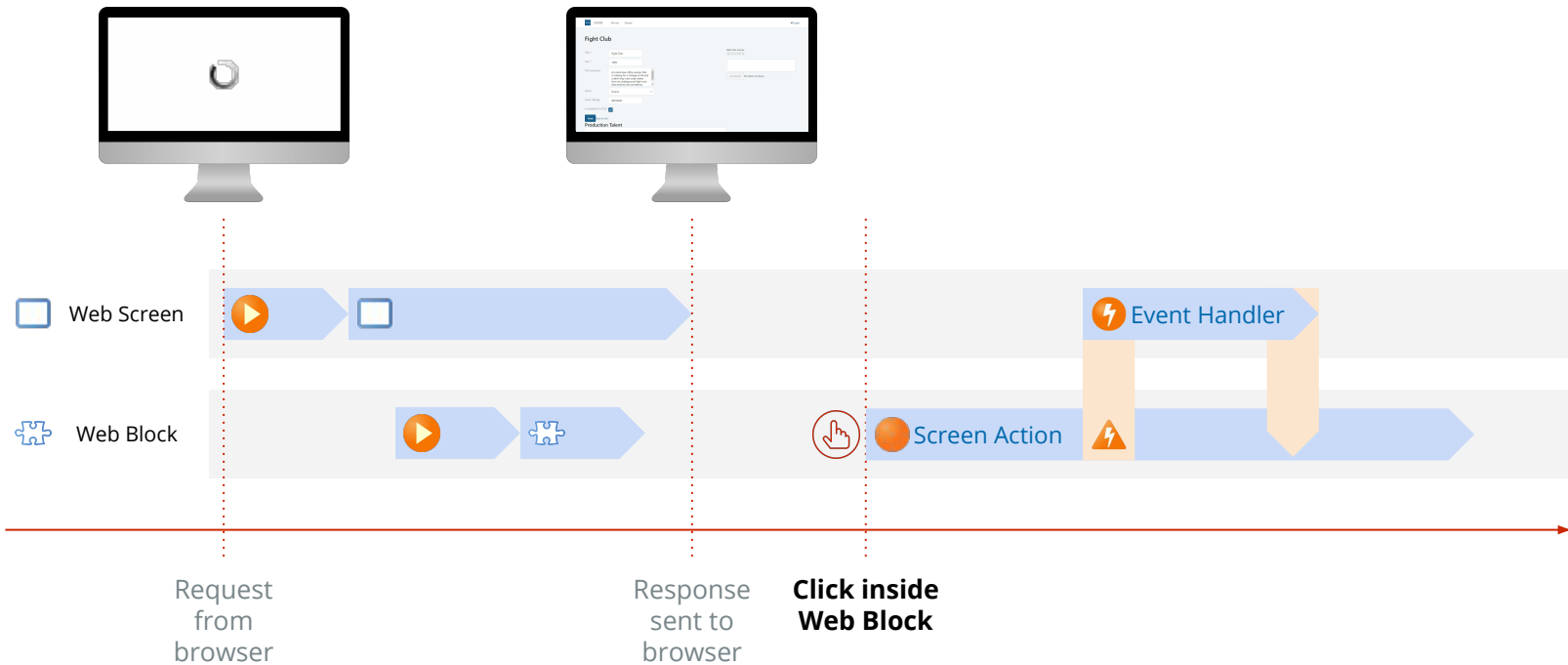
Comment

No items to show...

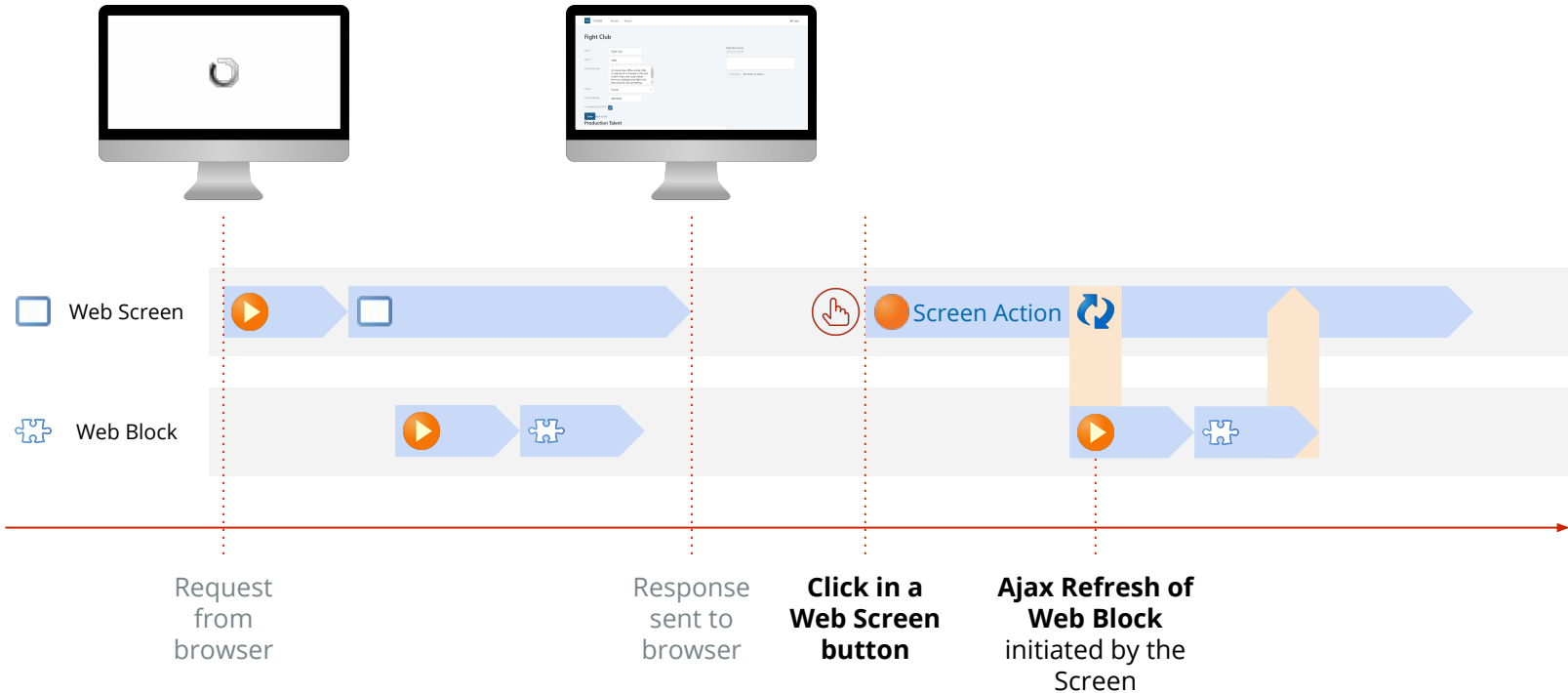
Screen Lifecycle with Web Blocks



Web Blocks Events Lifecycle



Ajax Refreshing a Web Block



Summary

- Creating a Web Block
- Designing and Using Web Blocks
- Web Block Interactions
 - Events
 - Event Handlers
- Screen Lifecycle with Web Blocks

A low-angle, long-exposure photograph of a city skyline at night. The image features several tall skyscrapers with illuminated windows. In the foreground, there are bright, horizontal light trails from traffic, suggesting a busy street. The sky is dark, and the overall scene conveys a sense of urban energy and modern technology.

Web Blocks
Thank You!

Web Screen Request

Name

Techy


Year

2017


Nr. Offices

13

See Sales



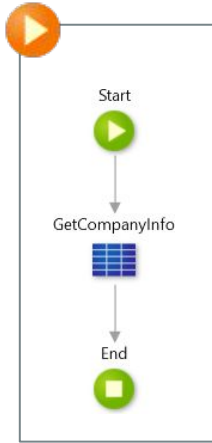
Monthly Sales



Month	Sales (K)
Jan 2017	0.5
Feb 2017	0.5
Mar 2017	0.6
Apr 2017	0.5
May 2017	0.9
Jun 2017	1.0
Jul 2017	1.1
Aug 2017	1.0
Sep 2017	1.5
Oct 2017	1.7
Nov 2017	1.1
Dec 2017	1.2

Web Screen

Screen's Preparation Runs




**Screen's
Preparation**

Web Screen

Screen rendering...

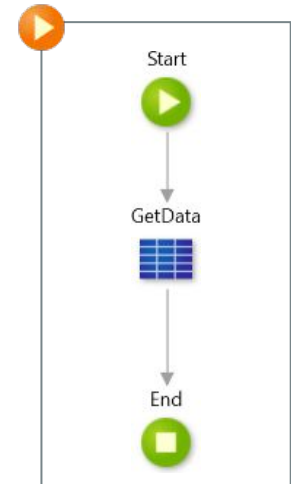
Name Year

Nr. Offices

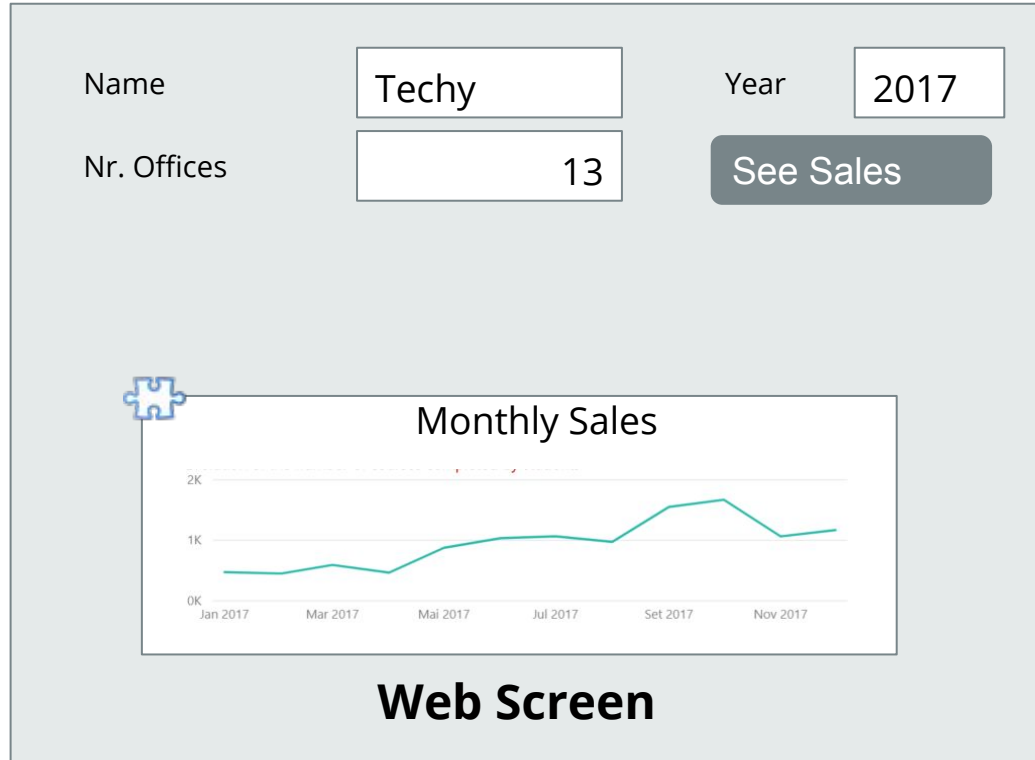


Web Screen

Web Block's Preparation




Web Block Rendered




Ajax Request of a Web Block

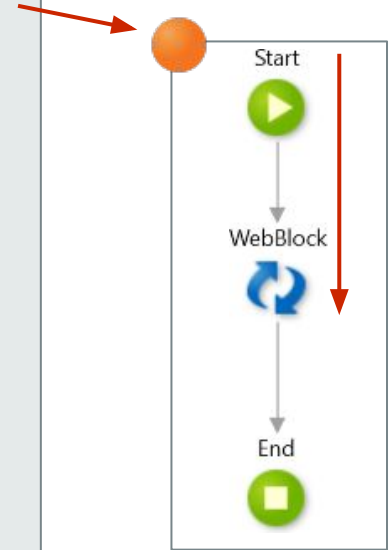
Name Year

Nr. Offices

 **Monthly Sales**




Web Screen




Web Block's Preparation Runs

Name Year

Nr. Offices

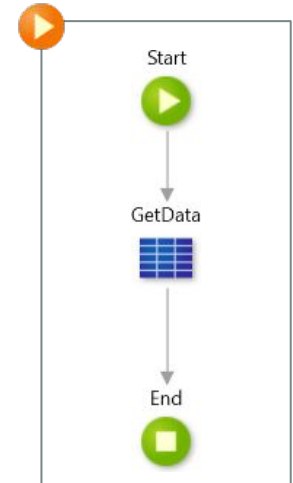
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Web Screen


Web Block's Preparation

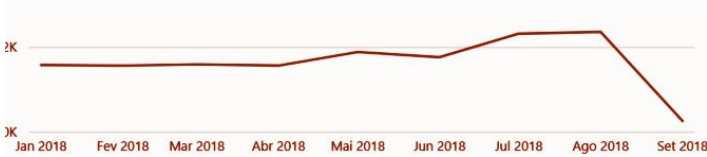


Web Block UI is rendered

Name Year

Nr. Offices

 **Monthly Sales**



Month	Sales (K)
Jan 2018	1.5
Fev 2018	1.5
Mar 2018	1.5
Abr 2018	1.5
Mai 2018	1.6
Jun 2018	1.5
Jul 2018	1.8
Ago 2018	1.9
Set 2018	1.9

Web Screen

Web Block's Preparation

