



# Input Validations

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# Topics

- Built-in Validations
- Types of Validations
  - Server
  - Client & Server
  - (none)
- Custom Validations
- Validation Messages

# Validating User Inputs

Applications should limit user mistakes

- ... but they are inevitable

Input fields may

- Have different data types
- Depend on other user input values
- Require business-specific validations

OutSystems provides mechanisms to help implementing input validations

## New Book

Title \*

The Validation Game

Publisher

Imaginary Publishers ▼

Publication Date \*

2018-10-08

Edition

3

Save

Cancel

# Built-in Validations

OutSystems provides **built-in validations** for Input Widgets

- **Mandatory fields** must be filled
- Data typed in **must comply with the data type** of the Variables bound to the Widgets

Validation is performed automatically

Validations are only performed when data is submitted to the server

- Link / Button with *Navigate* method does not have validations

The screenshot displays a form with the following fields: Title, Publisher (containing '-'), Publication Date (with a calendar icon showing '14'), and Edition. A red 'Save' button is located at the bottom right. Two configuration panels are overlaid on the form:

**Book\_Title Configuration Panel:**

Book_Title	
Name	Book_Title
Variable	BookForm.Record.Book.Title
Validation Parent	
Mandatory	True
Null Value	...

**Save Button Configuration Panel:**

On Click	
Method	Submit
Validation	Server
Confirmation...	
Destination	Save

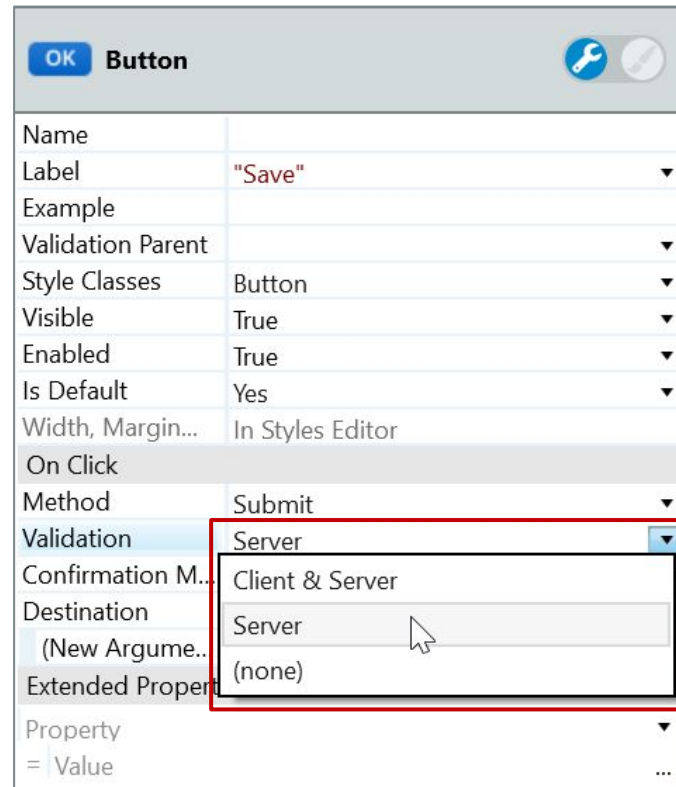
# Types of Validations

Links and Buttons have a Validation property

This property influences how the input validations will be performed

There are three types of validations:

- Server
- Client & Server
- (none)



# Validation: Server

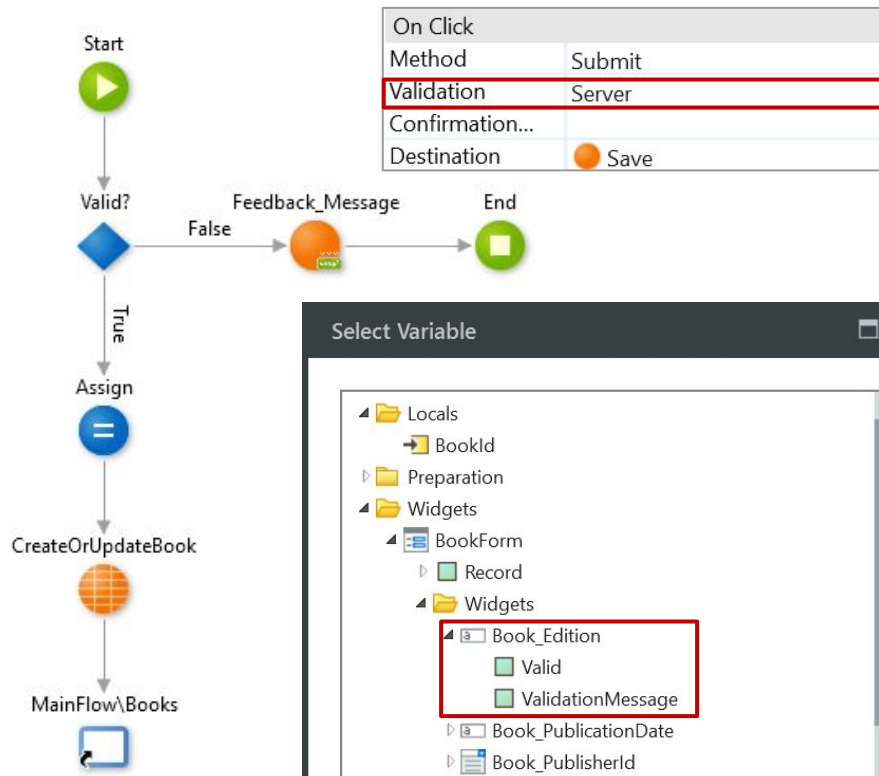
Inputs are submitted to the server

Each Input field has two runtime properties

- **Valid** boolean property
- **ValidationMessage** text property (displayed in case input is not valid)

Built-in validations are performed automatically

- Valid property is automatically set to False
- But still need to be explicitly checked in the Action flow



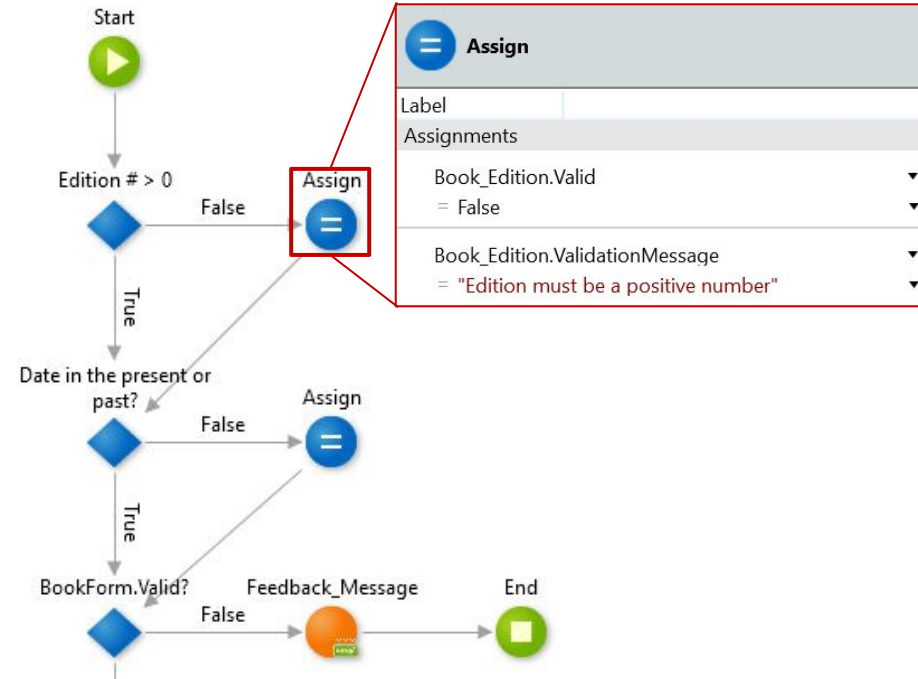
# Custom Server-Side Validations

Developer can write their own validations

- Must be performed in the Action flow
- For invalid Form Input fields
  - Set the **Valid** property to False
  - Set the **ValidationMessage** accordingly

The Form Valid property should be checked after all custom validations

- If one Input is not Valid, the Form is automatically not Valid
- The Form Valid property cannot be explicitly assigned




# Validation: Client & Server

Built-in validations are checked on client-side

- If valid, inputs are submitted to the server
- If not, user gets the error messages immediately

Server-side works as the Server Validation method

- Custom server-side validations can be defined

OK Button	
Name	
Label	"Save" ▼
Example	
Validation Parent	▼
Style Classes	Button ▼
Visible	True ▼
Enabled	True ▼
Is Default	Yes ▼
Width, Margin...	In Styles Editor
On Click	
Method	Submit ▼
Validation	Client & Server ▼
Confirmation Mess...	▼
Destination	 Save ▼



# Validation: (none)

- Inputs are submitted to the server
- No built-in validations are performed on client or server-side
- Custom server-side validations can be defined

OK Button	
Name	
Label	"Save" ▼
Example	
Validation Parent	▼
Style Classes	Button ▼
Visible	True ▼
Enabled	True ▼
Is Default	Yes ▼
Width, Margin...	In Styles Editor
On Click	
Method	Submit ▼
Validation	(none) ▼
Confirmation Mess...	▼
Destination	Save ▼

# Validation Messages

The Valid property of the Input widgets are checked when rendering

If Valid property is set to True:

- Displays the regular widget

If Valid property is set to False:

- Displays the regular widget
- Applies the specific styling
  - e.g. a red border
- Displays the Validation Message when the input gains focus

**New Book**

Title \*

Publisher

Publication Date \*

Edition

Edition must be a positive number

# Summary

- Built-in Validations
- Types of Validations
  - Server
  - Client & Server
  - (none)
- Custom Validations
- Validation Messages

A city skyline at night, featuring several tall skyscrapers with illuminated windows. The foreground is dominated by long, horizontal light trails in white, yellow, and red, suggesting fast-moving traffic or light painting. The overall scene is a vibrant, high-energy urban environment.

**Input Validations**  
**Thank You!**