



# 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 editor interface. On the left, a form layout includes fields for 'Title', 'Publisher' (with a '-' placeholder), 'Publication Date' (with a calendar icon showing '14'), and 'Edition'. A red 'Save' button is positioned at the bottom right of the form. Two property windows are open. The top window, titled 'Book Title', shows the 'Properties' tab with the following settings: Name: Book\_Title, Variable: BookForm.Record.Book.Title, Validation Parent: (dropdown arrow), Mandatory: True (highlighted with a red box), and Null Value: (dropdown arrow). The bottom window, titled 'On Click', shows the 'Method' set to 'Submit' (highlighted with a red box), 'Validation' set to 'Server', 'Confirmation...' (truncated), and 'Destination' set to a 'Save' button icon.

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

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

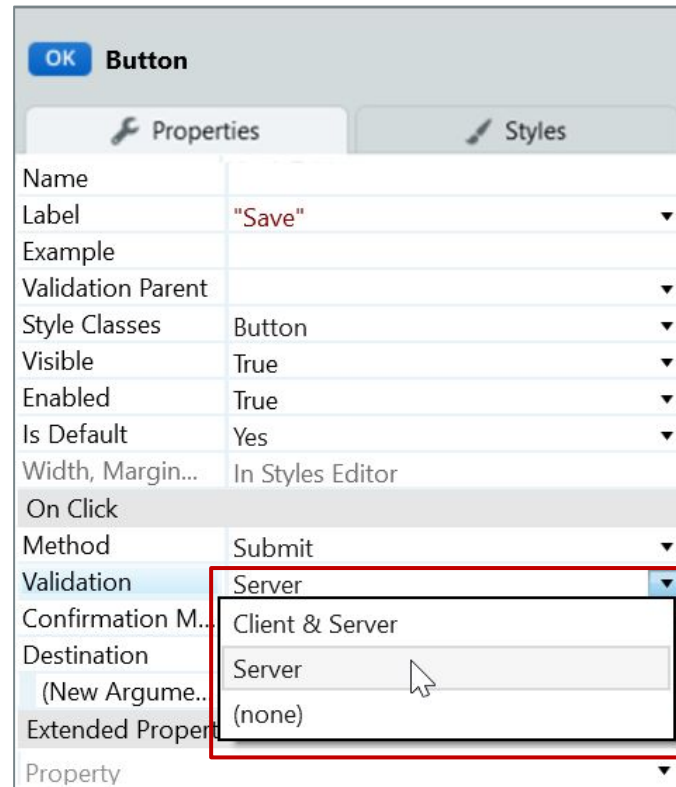
# Types of Validations

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

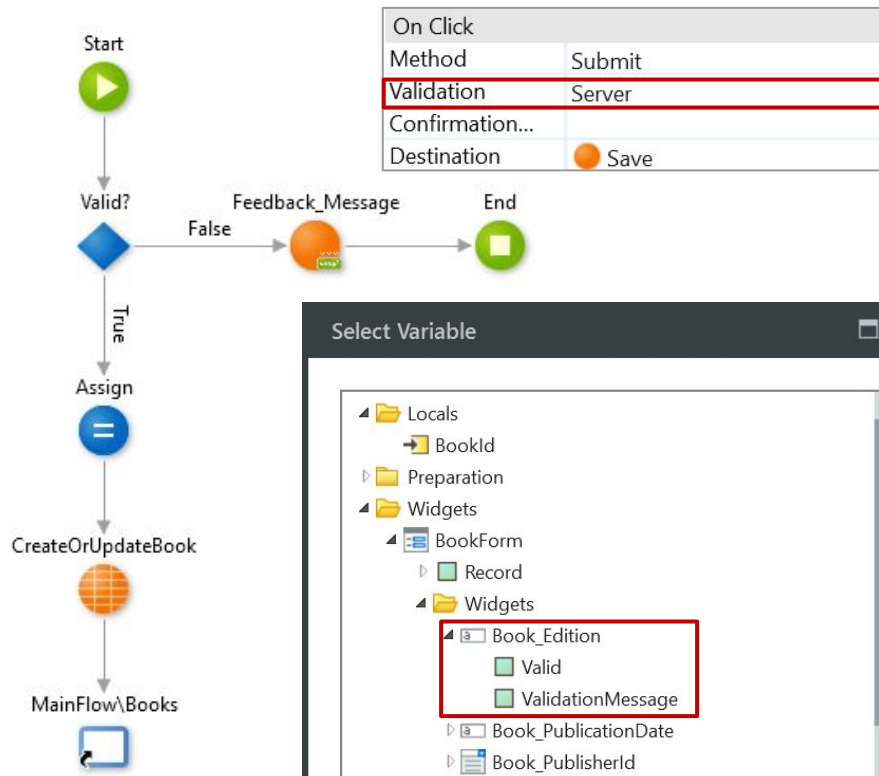
Inputs are submitted to the server

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



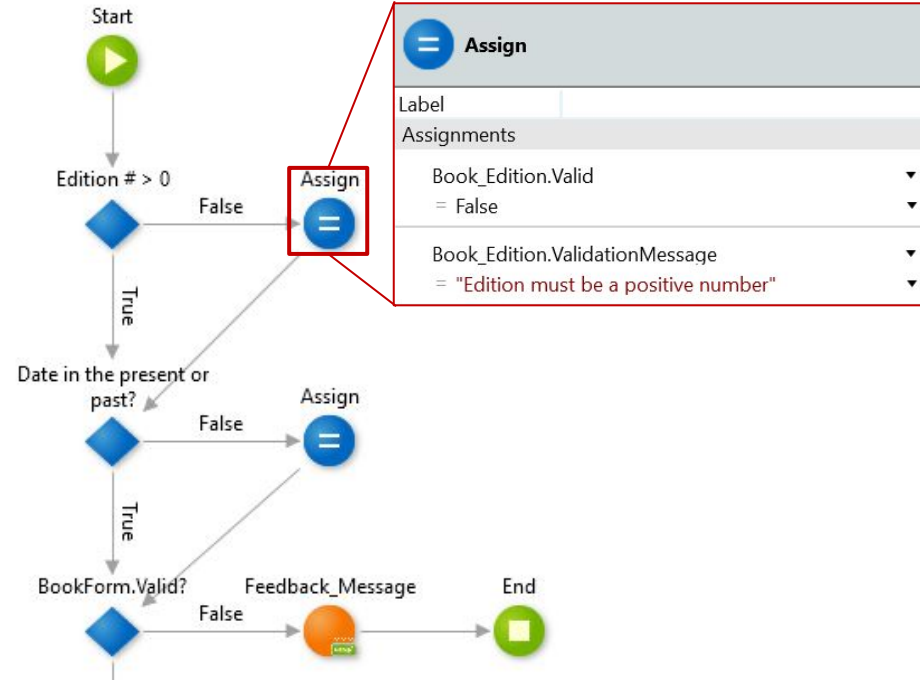
# Custom Server-Side Validations

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



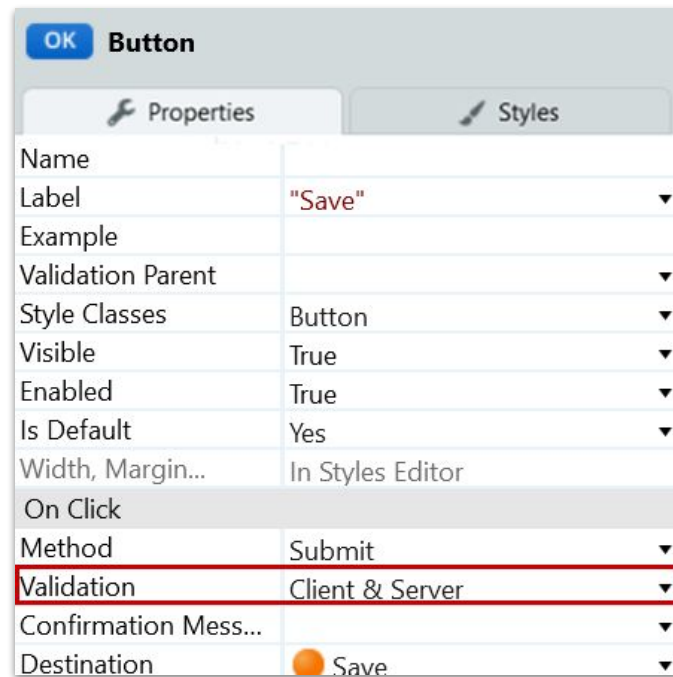
# Validation: Client & Server

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





# 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

The screenshot shows the configuration panel for a 'Button' widget. The 'Properties' tab is selected. The 'Validation' property is set to '(none)' and is highlighted with a red rectangle. Other properties include Label ('Save'), Style Classes (Button), Visible (True), Enabled (True), Is Default (Yes), Width, Margin... (In Styles Editor), On Click (Submit), Confirmation Mess... (empty), and Destination (Save).

Button	
Properties	
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 atmosphere is dynamic and urban.

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