

Writing Logic with Snap Code Validation Rules

Validation is about making sure the user and the computer are working in tandem with one another. It's the process of testing field values of a configurator for errors and warnings during run time.

By the end of this course, you'll be able to explain Validation Rules, and how they function.

Implement Validation Field blocks into your configurators

And leverage the Fix This function to simplify user's experience to fix errors and warnings.

Select the Overview button to get started.

Objectives

- Overview
- Snap Code
- Fix This

Overview

Validation rules run during the rule cycle and run each time a field changes. The Validation Rules run after the Value Rules. So, it doesn't matter if a user or a calculation changed a field value. The Validation Rule checks it after the modification.

Validations are reset and re-calculated as part of every rule cycle. That means if a validation message is showing, the system clears it and then re-runs the validation rule, so it appears only if necessary. In this way, when the issue has been resolved, the validation message will clear itself, with no programming on your part.

You can have two types of Validation: simple and complex.

Simple validation is built into a field's properties, and you don't need to write code for it. For example, if a number field has a minimum value of 1, but the default value is 0, a validation error message appears automatically. But Simple rules always appear as an error, and you cannot change the message displayed.

Complex validation rules, on the other hand, you can build with Snap. You can use all the features of Snap to determine when the message should appear, what it should say, and how urgent it is.

You can choose what kind of notification to show the customer.

Errors display with a circle next to the field and prevent the user from submitting the product.

Warnings appear with a triangle, and do not prevent the user from submitting the product.

A Validation Field evaluates if a statement is true or false. When the statement is false, it displays the validation message.

Select the right arrow icon to take the first knowledge check.

Snap Code

To use a validation block, you must create a validation rule.

Under Rules, select the plus icon and choose Validation.

A folder with a Validation Rule workspace appears. Rename it if you like. For example, “Check Height”.

Select it.

Search for and add the Validate Field Block to your snap.

Choose whether it returns an error or a warning. Then choose the field it will appear beside.

In this case, we’ll set up a warning to appear by the Height field.

Now build the logic. In this example, we will compare the value of this field with another value, and show a warning if our value is too small. Find the compare block and snap it into the first opening.

Choose the comparison you want the block to evaluate. In this case, we want to make sure that the height is at least 5. So, describe the state we want to have. The height... should be greater or equal to... five.

Finally, build the message that will be displayed. Here, we add a string to the last slot in the validate message block. This string displays only if the comparison returns false... or in other words if the height is less than 5.

Looking at the block we just made. We have the Validation type, the field name, the conditional statement, and the message that displays if the statement is false.

Our example will display a warning of “Height must be at least 5” if the Height field is less than 5.

If you are an advanced user, you can add more complicated rules to this block. For example, maybe you want the message to tell the user how many units taller the height needs to be.

Let’s run this and see how it looks in the configurator.

Look what happens when we change the height from 5 to 4. We get our validation warning along with the message.

Select the right arrow icon for a quick knowledge check.

Fix This

Validation messages tell your customers about a problem. But they can also help your customer resolve it, with the Fix This function.

Here, our customer could enter their own value, or use one of the suggested fixes we provide: Here, we created options to change the height to 5, copy the width, or reset the cube to its default.

Follow along to see how to build this in Snap.

On your Validate Field Snap Block, select the mutation symbol to add a Fix This slot. Now add the code you want the system to execute when the user presses the Fix This option.

In this case, let’s set the Height to 5 as our minimum requirement. Now let’s run this code.

When we set the value to 3, the warning appears with a Fix This button next to it.

Select the button to display the available options. Based on the code we set up, Select Fix This to set the value to 5.

This is a good start, but there are two things we could do better. Let’s tell the user what the Fix This option is going to do, and let’s give them some other alternative fixes.

Heading back to the configurator, Press the plus icon on the Validation Field to add more Fix This slots. Change the text to control how they appear to the customer.

We'll use: Change to Minimum, Copy Width, and Reset Cube.

Now, let's run this. When we select the Fix This button, notice the 3 options from our code. Select one of them and the configurator performs the related section of code.

The Fix This slot on a validation block is a useful way to provide solutions to the problems your customer might encounter. It's also a great way to steer them towards options your company would prefer.

Select the right arrow icon to continue to the recap.

Recap

Good work completing the Writing Logic with Snap code Validation Rules course.

You should now be able to explain Validation Rules, and how they function.

Be able to implement Validation Field blocks into your configurators

And leverage the Fix This function to simplify your customer's experience fixing errors and warnings.

The contents of this document are for informational purposes only and are subject to change without notice. Epicor Software Corporation makes no guarantee, representations or warranties with regard to the enclosed information and specifically disclaims, to the full extent of the law, any applicable implied warranties, such as fitness for a particular purpose, merchantability, satisfactory quality or reasonable skill and care. This document and its contents, including the viewpoints, dates and functional content expressed herein are believed to be accurate as of its date of publication. The usage of any Epicor software shall be pursuant to the applicable end user license agreement and the performance of any consulting services by Epicor personnel shall be pursuant to applicable standard services terms and conditions. Usage of the solution(s) described in this document with other Epicor software or third party products may require the purchase of licenses for such other products. Epicor, the Epicor logo, and are trademarks of Epicor Software Corporation, registered in the United States and other countries. All other marks are owned by their respective owners. Copyright © 2021 Epicor Software Corporation. All rights reserved.

About Epicor

Epicor Software Corporation drives business growth. We provide flexible, industry-specific software that is designed around the needs of our manufacturing, distribution, retail, and service industry customers. More than 40 years of experience with our customers' unique business processes and operational requirements is built into every solution—in the cloud, hosted, or on premises. With a deep understanding of your industry, Epicor solutions spur growth while managing complexity. The result is powerful solutions that free your resources so you can grow your business. For more information, [connect with Epicor](#) or visit www.epicor.com.

EPICOR

Corporate Office

804 Las Cimas Parkway
Austin, TX 78746

USA

Toll Free: +1.888.448.2636

Direct: +1.512.328.2300

Fax: +1.512.278.5590

Latin America and Caribbean

Blvd. Antonio L. Rodriguez #1882 Int. 104

Plaza Central, Col. Santa Maria

Monterrey, Nuevo Leon, CP 64650

Mexico

Phone: +52.81.1551.7100

Fax: +52.81.1551.7117

Europe, Middle East and Africa

No. 1 The Arena

Downshire Way

Bracknell, Berkshire RG12 1PU

United Kingdom

Phone: +44.1344.468468

Fax: +44.1344.468010

Asia

238A Thomson Road #23-06

Novena Square Tower A

Singapore 307684

Singapore

Phone: +65.6333.8121

Fax: +65.6333.8131

Australia and New Zealand

Suite 2 Level 8,

100 Pacific Highway

North Sydney, NSW 2060

Australia

Phone: +61.2.9927.6200

Fax: +61.2.9927.6298