

Field validation: Regular Expressions



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Field validation: Regular Expressions

Sometimes we want to help the user by validating if the input is correct/what we expect in the system.

For example if the user inputs a phone number, url or email address.

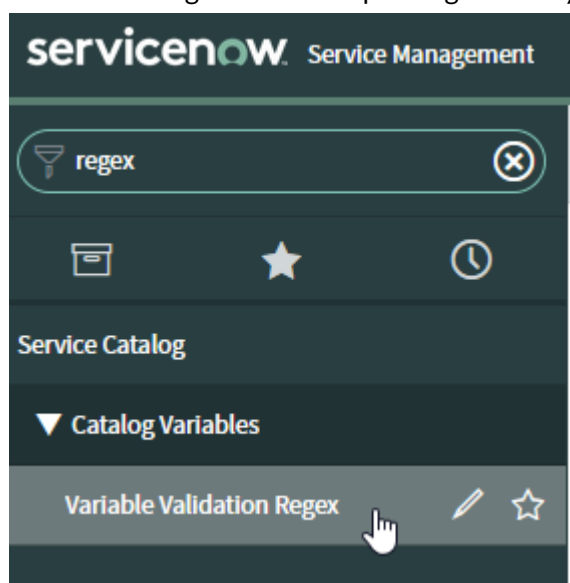
Regular expression

Wikipedia: A **regular expression** (shortened as **regex** or **regexp**; also referred to as rational expression) is a sequence of characters that define a search pattern.

Basically we provide the system a pattern it can use to search any string value with and allow it to do some action when a match is found.

Using regular expression: Variable Validation Regex

You can use regular expressions throughout the system. If you want to validate a value input in the Service Catalog for a user requesting an item you can set up a Variable Validation Regex:








Existing Regular expressions

There are already a few Regular expressions available in the system:

|  | Name | Regular Expression | Validation message |
|---|--------------|---|--|
|  | Phone number | <code>^[0]\d{10}</code> | Should start with 0 and 11 digit total |
|  | URL | <code>(((ftp http https):\/\/)(www\.))([-\w\....</code> | Not a valid URL |
|  | US Zip Code | <code>^[0-9]{5}(?:-[0-9]{4})?\$</code> | Incorrect Zip Code |
|  | Number | <code>^[0-9]*\$</code> | Not a Number |


Add a new one

You can add your own Regular expression to this. For example if we want to check if an email address that is entered is valid:



Question Regular Expression
email
 


 Update Delete

* Name

Application


Global

Validation message

 Active ☒






* Regular Expression

Regex Flag


-- None --

Apply it to a Variable


To apply it to a Question/Variable, go to the variable and select the regular expression you like to use in the Type Specification:



Variable Email
 


 Update Copy Delete



Type

Single Line Text

Application

Global

Catalog item

To Do list


Mandatory
 ☐

Active
 ☒

Order



Question Annotation **Type Specifications** Default Value Permission Availability

Variable Width

System Default Width (50%)

Not honored in 2 column container

Validation Regex



The result

A valid email address format:

Email

valid@email.com

Invalid format:

Email

in&va\$lid@email.com

Please enter a valid email address

Reference the Docs article here: <https://docs.servicenow.com/bundle/orlando-it-service-management/page/product/service-catalog-manage...>

Using regular expression: onChange client script

We can get the same result using an onChange client script. With the added benefit that we can use an onChange script in a Catalog Client script, as well as on a form in the back-end.

To do this add the following code to an onChange client script on the field you want to validate:

```
function onChange(control, oldValue, newValue, isLoading) {
    if (isLoading || newValue == '') {
        return;
    }
    var re = /^[a-zA-Z0-9_\-\.]+\@([a-zA-Z0-9_\-\.]+\)\.([a-zA-Z]{2,5})$/;
    if (!re.test(newValue)) {
        g_form.showFieldMsg('your_field name', 'Please enter a valid email address', 'error');
        return false;
    }
    return true;
}
```

Like so:

Name Application Applies to Type Active ☒Catalog item UI Type Variable name Applies on a Catalog
Item view ☒Applies on Requested
Items ☐Applies on Catalog
Tasks ☐

Script



```
1 function onChange(control, oldValue, newValue, isLoading) {  
2     if (isLoading || newValue == '') {  
3         return;  
4     }  
5     var re = /^[a-zA-Z0-9_\.~\.\.]+\.[a-zA-Z0-9_\.~\.\.]+\.[a-zA-Z]{2,5}$/;  
6     if (!re.test(newValue)) {  
7         g_form.showFieldMsg('email', 'Please enter a valid email address', 'error');  
8         return false;  
9     }  
10    return true;  
11 }
```

Common Regular expressions

For common Regular expressions, please refer to this article:

<https://community.servicenow.com/community?>

[id=community_article&sys_id=453fa36edbd7d0103daa1ea668961...](https://community.servicenow.com/community?article_id=community_article&sys_id=453fa36edbd7d0103daa1ea668961...)

Personal Developer Instance

Scripting and Coding

Service Portal Development

3 KB

6 KB

46 KB

19 KB

21 KB

21 KB

32 KB

16 KB

45 KB



22 Helpfuls

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