



FREE eBook

LEARNING validation

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#validation

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About

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Chapter 1: Getting started with validation

Remarks

Validation is the process of validating/verifying the user entries against some criteria.

The main purpose is to ensure that the user entries are matching with the policy of the system.

For example, if a site allow visitors below an age of 50, then the validation to ensure the user entered age is less than 50 should be done.

Related : [Validation - Wikipedia](#)

Examples

Installation or Setup

Detailed instructions on getting validation set up or installed.

Validating a name entered by User

Validating the Name entered by a User contain the following check

- Ensure it is not empty
- Ensure it contain only alphabets, space and/or dot.

So, the regular expression for this is

```
^[A-Z][a-z]*(\.\s?[A-Z][a-z]*)+ $\$$ 
```

This means

- \wedge -> Should start with
- $[A-Z]$ -> the first letter should be capital case
- $[a-z]^*$ -> the leading letters should be small case (Optional and not applicable for Initials. Ex : **J. Doe**)
- $(\.\s?[A-Z][a-z]^*)^+$ -> A dot (.) and/or a space (" "), then a capital case and small cases. The last + indicates that this part can repeat many times and at least one time it should be there.
- $\$$ end. No further words will be there

Example matching : J. Doe , John Doe, John Doe Doe, John D Doe.

Example in JavaScript

```
var name = "John Doe";
var noname = "123Abc";
console.log(/^ [A-Z] [a-z]* (\.? \s? [A-Z] [a-z]*)+$/ .test (name)); // true
console.log(/^ [A-Z] [a-z]* (\.? \s? [A-Z] [a-z]*)+$/ .test (noname)); // false
```

Validating an age against a range

Let's take the Range is from 18 to 80.

So, to validate,

We should check that the age is a positive integer.

Then check it should be greater than or equal to 18 and less than or equal to 80.

The test to check whether it is a number or not can be performed by a simple regular expression like

```
^[0-9]+$
```

Or even simpler

```
^\d+$
```

Then we can check it with range as

```
if age >= 18 && age <= 80 return true
else return false
```

Validating whether the user input contain non alpha numeric character

Sometimes, we have to take input from users which should contain only alpha numeric characters.

For example, lets say a Username system which allow only letters and numbers,

Then this can be done with the following Regular Expression

```
^[a-zA-Z0-9]+$
```

- `^` is restrict the start
- `[a-zA-Z0-9]+` is the main part which allow only small `a-z` capital `A-Z` and numbers with a minimum length of 1 to any extend.
- `$` restrict the end

This can also done by using

```
^\w\d]+$
```

Here

- `\w` represent the alphabets
- `\d` represent the digits

If we want to restrict the length to maximum 20 characters,

```
^[a-zA-Z0-9]{1,20}$
```

- The `{1,20}` indicate that the length can be between 1 and 20 including both.

Read [Getting started with validation online](https://riptutorial.com/validation/topic/9591/getting-started-with-validation): <https://riptutorial.com/validation/topic/9591/getting-started-with-validation>

Credits

S. No	Chapters	Contributors
1	Getting started with validation	Community , Sagar V