**Form Validation**

1. **Requiring an Input**

We can make an input be required by adding the required attribute to an <input>.

Graphical user interface, text, application

Description automatically generated

1. **Set a Minimum and Maximum**

We can assign a minimum or maximum value for a number field, e.g. <input type="number"> and <input type="range">, by adding min and max attributes.

Graphical user interface, text, application

Description automatically generated

1. **Checking Text Length**

To set the minimum and maximum text length, we add minlength and maxlength attributes to <input>.

User will not be able to type in more than maximum characters.

Graphical user interface, text, application, email

Description automatically generated

1. **Matching a Pattern**

For cases when we want user input to follow specific guidelines, we use the pattern attribute and assign it a *regular expression*, or regex. Regular expressions are a sequence of characters that make up a search pattern. If the input matches the regex, the form can be submitted.

e.g. pattern="[0-9]{14,16}" checks for only digit inputs, with length 14-16.

pattern="[a-zA-Z0-9]+" checks for only letters and numbers input.

More regex is [here](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Regular_Expressions).

Graphical user interface, text, application, email

Description automatically generated