Homework 5: part 2

1. What is form validation?

Form validation gathers the user's data in a certain way. We want to make sure that the user is inputting data that is in a certain format and so they can access it later when it is stored in a database. It's important that the data is secure if there's any sensitive data we want to make sure it is retrieved with precaution. We make sure that we don't reveal any password on the url.

2. What are the two types of client-side validation?

    a. The first is the built-in HTML5 form validation
    b. The second is using JavaScript

3. HTML built-in form validation is possible because of the different attributes that can check what type of data the user is typing, as well as making sure they follow certain parameters. If they are not doing the form correctly, we can use attributes like "title" to let them know. We need to use the "type" attribute to get categorize the type of information we want. Like for a password we to make sure the type is set to "password" so when the user types it is omitted.

4. Input elements (username, password, email):

Use of username, password, and email attributes example:

```
<form action="submit.html" id="userForm">

    <input type="text" name="username" placeholder="username" pattern="[a-z?A-Z_-]{4,10}[0-9]{1,4}" title="Invalid username! You need a minimum of 4 characters and at least one number. No more than 10 characters or 4 numbers." required>

    <!-- [a-zA-Z0-9-_]{4,12} -->


    <input type="email" name="mail" placeholder="email" pattern="[a-z?A-Z0-9._-]+[@]+\w+\.?(com|net)" title="Your email must have @ and a valid . extension." required>


    <input type="password" name="password" placeholder="password" pattern="^[a-zA-Z\S]{8,12}\d+" title="Minimum 8 characters and a number" required>
```

<button type="submit" form="userForm" id="btn">Submit</button>

</form>

5. HTML Form Validation vs Constraint API

The constraint API checks for the input values inside the form before sending it to the server. Normally, the validation occurs in the server.

6. What is the input attribute that you don't want to include along the Constraint API

Do not include the title attribute.

7. Is client-side form validation enough?

It's not enough just to use client-side form validation, it's not secure.

8. UX and forms

    a. Forms are used to gather and stored data from the user
    b. We want to make sure that we get data in the correct format
    c. To have a way to contact them; for example any policy updates

9. HTML5 significant features

One of the most significant features is the input attribute pattern. You can use Regular Expressions to make sure that the user is following a certain format to submit data.

10. Seven attributes used in Built-in form validation

    a. Type: It refers to the type of input to display.
    b. Name: It gives the element a name and it is used as a reference when the data is submitted.
    c. Placeholder: It tells the user what the input field area expects.
    d. Pattern: It specifies a regular expression.
    e. Require: It prevents the user from having empty values.
    f. Action: It's used to in redirect the data once the form is completely filled.
    g. Form: It specifies the form the element belongs to