Full Stack Web Development Program

Day 23 - Modernize JavaScript with ES6 Features

Titles

- Form Validation

- JavaScript ES6

- Difference between ES5 and ES6

- var vs let vs const

- Arrow Functions

- Template String

- Spread Operator

- Rest Operator

- Object Destructuring

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Learning Objectives

By the end of this module, you will be able to:

- Implement form validations on web pages

- Identify the difference between ES5 and ES6 and elaborate on ES6
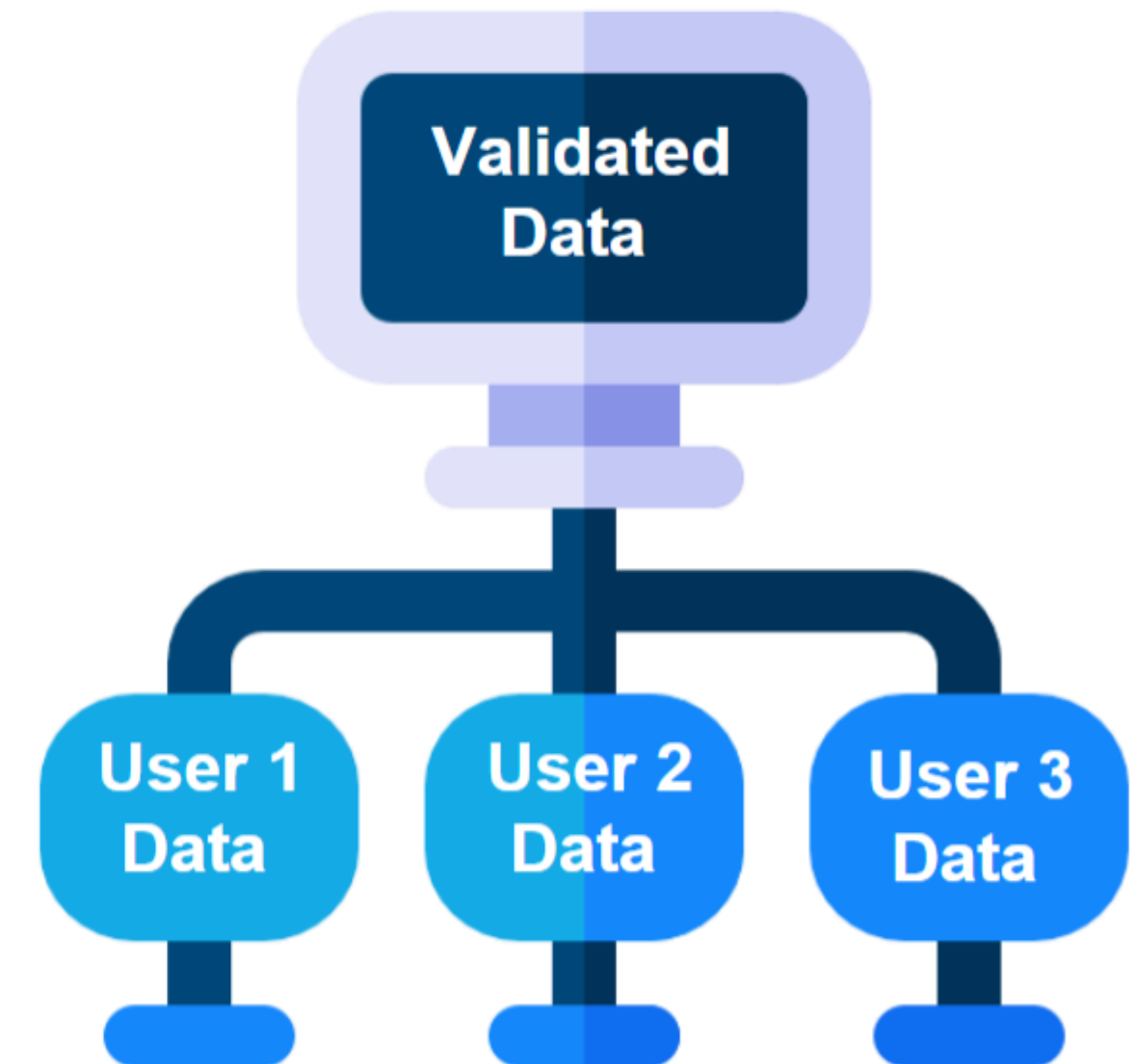
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Modernize JavaScript with ES6 Features

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Form Validation

- Normally, Form validation occurs on the server side to verify the details given by the user.

- It is used to make sure that the entered data is correct and clean.

- It allows you to verify the data before submitting it to the server.

- Some of the commonly used validation tasks are:

  - To ensure all the required fields are filled.

  - To ensure that the user has entered a valid date

  - To ensure that the user has entered numbers in numeric fields.

  - To ensure that the user has entered a valid email.

Validated Data

User 1 Data **User 2 Data** **User 3 Data**

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Form Validation (contd.)

■ The attribute within HTML input tags enables us to carry out fundamental form validations.

```
<form>
  <label for="username">Username</label>
  <input type="text" id="username" required />
  <input type="submit" />
</form>
```

The **required** attribute of the HTML input tag makes the input field mandatory.

127.0.0.1:5501/htmlbasic.html

Username [   ] Submit

Before clicking on the submit button

127.0.0.1:5501/htmlbasic.html

Username [   ] Submit

! Please fill out this field.

After clicking on submit button without entering details of the user

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Form Validation (contd.)

Before clicking on submit button

After clicking on submit button without entering details of the user

Example - I Form Validation

Code:

```html
<body>
    <div id="root">
            <form name="myForm" onsubmit="validate()" method="post">  Name: <input type="text"
    name="name">
            <input  type="submit" value="Submit">
            </form>
    </div>
    <script>
        function validate(){
                var x = document.forms["myForm"]["name"].value;
                if (x == ""){
                    alert("Name Can't be Empty");   return false;
                }
                else {
                    let value = "Form Submitted Successfully";
                    document.getElementById("root").innerHTML = value;
                }}
    </script>
</body>
```

This function will make sure that the value of the field isn't empty.

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Example - I Output

Before clicking the Submit button

After clicking the Submit button

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Example - 2 Form Validation

Code:

```
<body>
    <div id="root">
        <form name="myForm" onsubmit="validate()" method="post">
        <b>Phone Number: </b><input type="text" name="ContactNumber">
        <input type="submit" value="Submit">
    </form>
</div>
<script>
        function validate(){
                var x = document.forms["myForm"]["ContactNumber"].value;
                if  (isNaN(x) || x == "") {
                    alert("Please enter number")
                }
                else {
                    let value = "Submitted Successfully";
                    document.getElementById("root").innerHTML = value;
                }}
    </script>
</body>
```

This function will make sure that the value of the field is number

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Example - 2 Output

Before clicking the Submit button

After clicking the Submit button

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Example - 3 Form Validation

Code:

```html
<body>
    <div id="root">
        <form name="myForm" onsubmit="validate()" method="post">
        <b>DOB: </b><input type="date" name="DOB">
      <input type="submit" value="Submit">
    </form>
  </div>
  <script>
        function validate(){
            var x = document.forms["myForm"]["DOB"].value;
                let DOB = new Date(x).getTime()
            let today = Date.now()
            let milli_diff = Math.abs(today - DOB)
            var age = (milli_diff / (1000 * 3600 * 24 *  365.25));
            if (age < 18) {
              alert("Sorry.. You should focus on your studies");
              return false;
            }
            var value = "Successfully Submitted"
            document.getElementById("root").innerHTML =  value;
            }
    </script>
</body>
```

This function will make sure that the user is old enough to understand your product.

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Example - 3 Output

Before clicking the Submit button

After clicking the Submit button