

IP LAB

Experiment 4

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Aim: To add validation to forms and learn about classes and objects in Javascript.

Problem Statement:

1. T-Shirt order Page (the one created in experiment 1 and 2) include the following functionalities-
 - a. Validate all the data keyed in by the user using JavaScript Validation
 - b. Process the order (submit form) and generate a Receipt showing the order reception confirmation - include the date of generation of receipt (Date class usage)
2. Create a student object and print the details in JavaScript.
 - Implement both using object literal syntax and object constructor. Demonstrate the use of the Prototype class.
 - Generate an exception when erroneous data is entered eg: if roll no entered is zero)

Results:

Hosted on GitHub

Page 1: T Shirt order page - https://sreekeshiyer.github.io/21-22_ip_lab_exp4/index2.html

Page 2: Javascript Objects, Exceptions-

https://sreekeshiyer.github.io/21-22_ip_lab_exp4/expt4_part2.html

Code:

Index2.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width,
initial-scale=1.0" />
    <title>HTML FORM</title>
    <script
      src="https://kit.fontawesome.com/f635a28c1e.js"
      crossorigin="anonymous"
    ></script>
    <!-- <link rel="stylesheet" href="style2.css" /> -->
  </head>

  <style>
    @import
url("https://fonts.googleapis.com/css2?family=Poppins:wght@100;300;400&dis
lay=swap");

    * {
      box-sizing: border-box;
      margin: 0;
      padding: 0;
    }

    body {
      font-family: "Poppins", sans-serif;
      margin: 0.7rem;
    }

    .cart {
      display: flex;
      justify-content: space-between;
      padding: 1rem;
      margin-left: 10rem;
    }
```

```
form h3 {
    font-size: 2rem;
    margin-bottom: 1rem;
}

input,
select {
    margin-bottom: 1rem;
}

.mt-1 {
    margin-top: 1rem;
}

.options {
    margin-top: 1rem;
}

.options label {
    margin-top: 0.8rem;
    font-size: 0.8rem;
}

.btn {
    display: inline-block;
    margin-top: 1rem;
    font-size: 1.2rem;
    padding: 0.4rem 0.8rem;
    color: white;
    background: #333;
    border: none;
    border-radius: 7px;
    box-shadow: 2px 2px 2px 1px rgba(0, 0, 0, 0.2);
    cursor: pointer;
    transition: all 750ms ease-in-out;
}

.btn:hover {
    transform: scale(1.05);
    background-color: #2dbdff;
}

.preview {
```

```

    display: flex;
    width: 400px;
    margin-right: 200px;
    background: #f4f4f4;
    justify-content: center;
    align-items: center;
}

.preview img {
    height: 80%;
    width: 80%;
}

@media (max-width: 1100px) {
    .cart {
        margin-left: 3rem;
    }

    .preview {
        margin-right: 3rem;
    }
}

@media (max-width: 880px) {
    body {
        margin: 0;
    }

    form h3 {
        text-align: center;
    }

    .cart {
        flex-direction: column-reverse;
        align-items: center;
        justify-content: center;
        margin-left: 0;
    }

    .form-data {
        margin-top: 2rem;
    }
}

```

```

        .preview {
            height: 400px;
            width: 350px;
            margin-right: 3rem;
        }
    }
</style>

<body>
    <form
        name="myForm"
        id="shirt_cart"
        onsubmit="return validateForm()"
        enctype="multipart/form-data"
        method="put"
    >
        <h3>Your Cart</h3>
        <div class="cart">
            <div class="form-data">
                <label for="tagline">Enter Tagline:</label>
                <input required type="text" name="tagline" id="tagline"
            />

                <br />
                <label for="color">Choose Color:</label>
                <input type="radio" id="red" name="color" value="Red"
            />

                <label for="red">Red</label>
                <input type="radio" id="white" name="color"
value="White" />

                <label for="white">White</label>
                <input type="radio" id="blue" name="color" value="blue"
            />

                <label for="blue">Blue</label> <br />

                <label for="size">Select Size:</label>
                <select required id="size" name="size">
                    <option value="25">25</option>
                    <option value="30">30</option>
                    <option value="35">35</option>
                    <option value="40">40</option>
                </select>
                <br />
                <label for="quantity">Quantity: </label>

```

```
<select required id="quantity" name="quantity">
  <option value="1">1</option>
  <option value="2">2</option>
  <option value="3">3</option>
  <option value="4">4</option>
</select>
<br />
<label for="price"
  >Total Order Price: <strong>25.49$</strong></label
>
<br />

<div class="mt-1"></div>
<label for="payment_options">Payment Options:</label>
<br />
<div class="options">
  <input
    type="radio"
    id="cc"
    name="payment"
    value="Credit/Debit Card"
  />
  <label for="cc">Credit/Debit Card</label> <br />
  <input
    type="radio"
    id="upi"
    name="payment"
    value="UPI"
  />
  <label for="upi">UPI</label> <br />
  <input
    type="radio"
    id="crypto"
    name="payment"
    value="Crypto"
  />
  <label for="crypto">Crypto-Wallet</label>
</div>

<label for="address">Address:</label>
<p>3224 Hinkle Lake Road Cambridge, MA - 02138</p>

<button type="submit" class="btn">Place Order</button>
```

```

        </div>
        <div class="preview">
            
        </div>
    </div>
</form>
</body>

<script>
    function validateForm() {
        // Part A

        const values = [
            document.forms["myForm"]["tagline"].value,
            document.forms["myForm"]["color"].value,
            document.forms["myForm"]["size"].value,
            document.forms["myForm"]["payment"].value,
        ];

        const hasEmptyFields = Object.values(values).some(
            (element) => element === ""
        );

        if (hasEmptyFields) {
            alert("Please fill in all fields");
            return;
        }

        // Part B

        document.getElementById("tagline").value = "";
        var ele = document.getElementsByName("color");
        for (var i = 0; i < ele.length; i++) ele[i].checked = false;
        var ele = document.getElementsByName("payment");
        for (var i = 0; i < ele.length; i++) ele[i].checked = false;

        const receipt_formatted = `Thank you for shopping!\nHere's your
receipt:\nDate: ${new Date().toLocaleDateString(
    "UK"
)}\nTagline: ${values[0]}\nColor: ${values[1]}\nSize: ${
    values[2]
}\nPayment Method: ${values[3]}`;
    }

```

```

        alert(receipt_formatted);
    }

    const form = document.getElementById("shirt_cart");

    form.addEventListener("submit", (event) => {
        // stop form submission
        event.preventDefault();
    });
</script>
</html>

```

exp4_part2.html

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width,
initial-scale=1.0" />
    <title>IP EXP 4 Part 2</title>
  </head>
  <body>
    <h1>IP EXPERIMENT 4</h1>
    <h2>Part 2</h2>
    <p>To Create a student object and print the details in
JavaScript.</p>

    <p>Check the Console for Output</p>

    <hr noshade="" />
    <p>Input box for error test</p>
    <input
      id="error_checking"
      type="text"
      value=""
      placeholder="Enter string or 0 for error"
    >

```



```

/>
<button type="submit" onclick="return checkError()">Submit</button>
</body>
<script>
  // Creating a Student Object

  const student1 = {
    name: "Sreekesh",
    class_name: "D15A",
    roll_no: 24,
  };

  console.log("Student 1: ", student1);

  class Student {
    constructor(name, class_name, roll_no) {
      this.name = name;
      this.class_name = class_name;
      this.roll_no = roll_no;
    }
  }

  const student2 = new Student("Aamir", "D15A", 01);
  console.log("Student 2: ", student2);

  // Use of Prototype

  Student.prototype.nationality = "Indian";
  console.log("Student 2: ", student2);

  // Generating an Exception

  function checkError() {
    const value = document.getElementById("error_checking").value;
    console.log(value);
    if (isNaN(value) || value == 0) {
      throw new Error("Invalid Input ");
    } else {
      console.log("Valid");
    }
  }
</script>
</html>

```