

Lab Exercise 4

Title: Assignment on Basic Javascript

Objectives:

1. T Shirt order Page (the one created in experiment 1 and 2) include the following functionalities
 - a. Validate the all the data keyed in by the user using JavaScript Validation (call a javascript method, eg: restrict the no of characters in the Message of the t shirt, check if 9 digits are keyed in for a mobile no)
 - b. Process the order (submit form) and generate a Receipt showing the order reception confirmation
 - include date of generation of receipt (Date class usage)Create a Person object and print the details in JavaScript.
 - Implement all methods of creating a class.
 - Demonstrate the usage of arrow function as member function or non memberImplement a Student class by inheritance Person class
- Implement required functions
- Demonstrate usage of super, overriding method
- Generate an exception when erroneous data is enter eg: if roll no entered is zero)

Theory

1. What are the different JavaScript Data Types?
2. What is the difference between var, let and const in Javascript?
3. Write a JavaScript function that accepts a string as a parameter and converts the first letter of each word of the string in upper case.
4. What is the use of a constructor function in javascript?
5. What are arrow functions?

Hosted Page:

GitHub Repo for Assignment : <https://github.com/nishant-3333/IP-Lab>

Hosted link of Assignment : <https://github.com/nishant-3333/IP-Lab>

Code:

Exp4.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>ThreadCraft - T-Shirt Order Page</title>
```

```

<link href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" rel="stylesheet">
<link rel="stylesheet" href="exp4styles.css"> <!-- Updated CSS file name -->
</head>
<body>
  <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
    <a class="navbar-brand" href="#">ThreadCraft</a>
    <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav"
aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarNav">
      <ul class="navbar-nav ml-auto">
        <li class="nav-item active">
          <a class="nav-link" href="#">Home</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Products</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Contact</a>
        </li>
      </ul>
    </div>
  </nav>
  <div class="container mt-5">
    <h1 class="text-center">Order Your T-Shirt from ThreadCraft</h1>
    <form id="orderForm">
      <div class="form-group">
        <label for="name">Name:</label>
        <input type="text" class="form-control" id="name" required>
      </div>
      <div class="form-group">
        <label for="email">Email:</label>
        <input type="email" class="form-control" id="email" required>
      </div>
      <div class="form-group">
        <label for="tshirtSize">T-Shirt Size:</label>
        <div class="d-flex">
          <select class="form-control select-custom" id="tshirtSize" required>
            <option>Small</option>
            <option>Medium</option>
            <option>Large</option>
            <option>X-Large</option>
          </select>
        </div>
      </div>
      <div class="form-group">
        <label for="quantity">Quantity:</label>
        <input type="number" class="form-control" id="quantity" min="1" value="1" required>
      </div>
      <div class="form-group">
        <label for="color">Color:</label>
        <div class="d-flex">
          <select class="form-control select-custom" id="color" required>

```

```

        <option>Red</option>
        <option>Blue</option>
        <option>Green</option>
        <option>Black</option>
        <option>White</option>
    </select>
</div>
</div>
<button type="submit" class="btn btn-primary btn-block">Submit Order</button>
</form>
<div id="orderSummary" class="mt-5" style="display:none;"></div>
</div>
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.js"></script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
<script src="exp4scripts.js"></script> <!-- Updated JavaScript file name -->
</body>
</html>

```

Exp4styles.css:

```

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

body {
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
    background-color: #f5f5f5;
    color: #333;
    line-height: 1.6;
}

.navbar {
    margin-bottom: 20px;
    transition: background-color 0.3s ease;
}

.navbar-brand {
    font-size: 1.75rem;
    font-weight: bold;
}

.container {
    max-width: 800px;
    padding: 20px;
    background: white;
    border-radius: 8px;
    box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
}

h1 {
    margin-bottom: 30px;
    font-size: 2.5rem;
    color: #333;
}

```

```

}

.form-group {
  margin-bottom: 1.5rem; /* Added closing brace */
}

.form-group label {
  font-weight: bold;
  margin-bottom: 0.5rem;
  color: #555;
}

.form-control {
  border-radius: 0.25rem;
  border: 1px solid #ced4da;
  box-shadow: none;
  font-size: 1rem;
  padding: 0.75rem;
  transition: border-color 0.3s ease, box-shadow 0.3s ease;
}

.form-control:focus {
  border-color: #007bff;
  box-shadow: 0 0 0 0.2rem rgba(38, 143, 255, 0.25);
}

.select-custom {
  display: inline-block;
  width: calc(50% - 10px); /* Corrected comment syntax */
  margin-right: 10px;
}

.btn-primary {
  background-color: #007bff;
  border: none;
  font-size: 1.125rem;
  padding: 0.75rem 1.25rem;
  border-radius: 0.375rem;
  transition: background-color 0.3s ease, transform 0.2s ease;
}

.btn-primary:hover {
  background-color: #0056b3;
  transform: translateY(-2px);
  color: #fff;
  text-decoration: none;
}

#orderSummary {
  background-color: #ffffff;
  padding: 20px;
  border: 1px solid #ddd;
  border-radius: 5px;
  box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
}

```

```

}

#orderSummary h3 {
  margin-bottom: 20px;
  color: #007bff;
}

#orderSummary p {
  margin-bottom: 10px;
}

@media (max-width: 768px) {
  .container {
    padding: 15px;
  }

  h1 {
    font-size: 2rem;
  }

  .navbar-brand {
    font-size: 1.5rem;
  }

  .form-control {
    font-size: 0.9rem;
  }

  .btn-primary {
    font-size: 1rem;
  }
}

```

Exp4scripts.js:

```

document.getElementById('orderForm').addEventListener('submit', function(event) {
  event.preventDefault();
  const name = document.getElementById('name').value;
  const email = document.getElementById('email').value;
  const size = document.getElementById('tshirtSize').value;
  const quantity = document.getElementById('quantity').value;
  const color = document.getElementById('color').value;
  const orderSummary = `
    <h3>Order Summary</h3>
    <p><strong>Name:</strong> ${name}</p>
    <p><strong>Email:</strong> ${email}</p>
    <p><strong>Size:</strong> ${size}</p>
    <p><strong>Quantity:</strong> ${quantity}</p>
    <p><strong>Color:</strong> ${color}</p>
    <p>Thank you for ordering from ThreadCraft!</p>
  `;
  document.getElementById('orderSummary').innerHTML = orderSummary;
  document.getElementById('orderSummary').style.display = 'block';
});

```

Screenshot:

← → ↻ 127.0.0.1:3000/exp4.html

ThreadCraft Home Products Contact

Order Your T-Shirt from ThreadCraft

Name:

Email:

T-Shirt Size:

Small ▼

Quantity:

Color:

Red ▼

Submit Order

Color:

Red ▼

Red

Blue

Green

Black

White

T-Shirt Size:

Small ▼

Small

Medium

Large

X-Large

Submit Order

Order Summary

Name: Nishant S Khetal

Email: khetalnishant@gmail.com

Size: X-Large

Quantity: 3

Color: Blue

Thank you for ordering from ThreadCraft!