Functional and Non-Functional Requirements

Functional Requirements:

- Users can fill out their name, email, product selection, quantity, and additional comments.

- Users can submit the form, which validates inputs before submission.

- Submission displays a confirmation message.

- Clear form reset after submission.

Non-Functional Requirements:

- Responsive and accessible design.

- Validations are client-side for instant feedback.

- External CSS for styling.

- Semantic HTML structure.

- JavaScript affects the form's behavior (validation, confirmation).

Web Page Design (Schema)

- A header with the title.
- The form contains:
  - Text input for Name.
  - Email input.
  - Dropdown/select for Product.
  - Number input for Quantity.
  - Textarea for Comments.
  - Submit button.
- A section for confirmation messages.

Implementation

index.html

```html
<html lang="en">
<head>
<meta charset="UTF-8" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<title>E-Store Request Form</title>
<link rel="stylesheet" href="styles.css" />
</head>
<body>
<header class="header">
  <h1 class="title">E-Store Request Form</h1>
</header>

<main class="main-content">
  <form id="requestForm" class="request-form" novalidate>
    <div class="form-group">
      <label for="name" class="form-label">Name</label>
      <input type="text" id="name" class="form-input" name="name" required />
    </div>

    <div class="form-group">
      <label for="email" class="form-label">Email</label>
      <input type="email" id="email" class="form-input" name="email" required />
    </div>

    <div class="form-group">
      <label for="product" class="form-label">Product</label>
      <select id="product" class="form-input" name="product" required>
        <option value="">Select a product</option>
```

```html
        <option value="laptop">Laptop</option>

        <option value="smartphone">Smartphone</option>

        <option value="tablet">Tablet</option>

        <option value="accessory">Accessory</option>

      </select>

    </div>


    <div class="form-group">

      <label for="quantity" class="form-label">Quantity</label>

      <input type="number" id="quantity" class="form-input" name="quantity" min="1" required
/>

    </div>


    <div class="form-group">

      <label for="comments" class="form-label">Comments</label>

      <textarea id="comments" class="form-textarea" name="comments"
rows="4"></textarea>

    </div>


    <button type="submit" class="submit-btn">Submit Request</button>

  </form>


  <div id="confirmation" class="confirmation-message" aria-live="polite"></div>

</main>


<script src="script.js"></script>

</body>

</html>
```

styles.css

```css
body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 20px;
  background-color: #f4f4f4;
}

.header {
  text-align: center;
  margin-bottom: 20px;
}

.title {
  font-size: 2em;
  margin: 0;
}

.main-content {
  max-width: 600px;
  margin: 0 auto;
  background-color: #fff;
  padding: 20px;
  border-radius: 8px;
  box-shadow: 0 0 10px rgba(0,0,0,0.1);
}

.request-form {
  display: flex;
  flex-direction: column;
}
```

```css
.form-group {
  margin-bottom: 15px;
}

.form-label {
  display: block;
  margin-bottom: 5px;
  font-weight: bold;
}
.form-input,
.form-textarea,
.select {
  width: 100%;
  padding: 8px;
  box-sizing: border-box;
}
.submit-btn {
  padding: 10px 15px;
  background-color: #007bff;
  color: #fff;
  border: none;
  border-radius: 4px;
  cursor: pointer;
}
.submit-btn:hover {
  background-color: #0056b3;
}
.confirmation-message {
  margin-top: 20px;
  font-weight: bold;
  color: green;
}
```

script.js

```javascript
document.addEventListener('DOMContentLoaded', () => {
  const form = document.getElementById('requestForm');
  const confirmationDiv = document.getElementById('confirmation');

  form.addEventListener('submit', (e) => {
    e.preventDefault();

    if (!form.checkValidity()) {
                // validation failed
      form.reportValidity();
      return;
    }

    const formData = {
      name: form.name.value.trim(),
      email: form.email.value.trim(),
      product: form.product.value,
      quantity: form.quantity.value,
      comments: form.comments.value.trim()
    };

    confirmationDiv.textContent = `Thank you for your request, ${formData.name}! Your order for ${formData.quantity} ${formData.product}(s) has been submitted.`;

    form.reset();
  });
});
```