

# Experiment 5: Cart Page Documentation

## Overview

The cart page is part of an online bookstore website, designed to display items added to the user's shopping cart. It provides a clean, responsive interface for users to review their selected books, adjust quantities, and proceed to checkout.

## Features

- Display of cart items in a tabular format
- Book details including image, title, and price
- Quantity adjustment for each item
- Remove button for individual items
- Automatic calculation of subtotal, tax, and final total
- Checkout button

## Structure

### HTML Components

- Main container with `.cart-container` class
- Table structure for cart items
- Total section for price calculations
- Checkout button

## Styling

The page uses clean, modern styling with:

- Responsive layout (`max-width: 800px`)
- White background with subtle shadow
- Clear typography using Arial font
- Hover effects on buttons
- Responsive table design

# Cart Items Display

Each cart item includes:

- Book cover image (80px width)
- Book title
- Unit price
- Quantity input
- Subtotal
- Remove button

# Price Calculation

- Subtotal of all items
- 18% GST calculation
- Final total display

# Interactive Elements

- Quantity adjustment inputs
- Remove buttons for each item
- "Proceed to Checkout" button

# Sample Data

Currently displaying:

1. Let Us C (₹365)
2. Core Python Programming (₹1,475)

# File Location

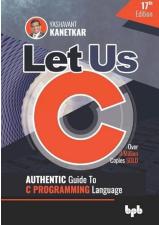
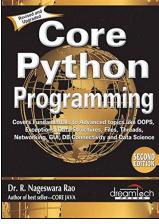
- Located at: [Web Workshop \[College LAB\]/Exp5/cartpage.html](#)

# Related Files

- Connected to the main bookstore catalog

- Integrated with the shopping system

# Shopping Cart

Book	Title	Price	Quantity	Subtotal	Action
	Let Us C	₹365	<input type="text" value="1"/>	₹365	<button>Remove</button>
	Core Python Programming	₹1,475	<input type="text" value="1"/>	₹1,475	<button>Remove</button>
<hr/>					
<p>Subtotal: ₹1,840</p>					
<p>Tax (18% GST): ₹331.20</p>					
<p><b>Total: ₹2,171.20</b></p>					
<hr/>					
<button>Proceed to Checkout</button>					

## Web Workshop [College LAB]\Exp5\cartpage.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <title>Shopping Cart - Online Book Store</title>
5     <style>
6         body {
7             font-family: Arial, sans-serif;
8             margin: 0;
9             padding: 20px;
10            background-color: #f0f0f0;
11        }
12        .cart-container {
13            max-width: 800px;
14            margin: 0 auto;
15            background-color: white;
16            padding: 20px;
17            border-radius: 5px;
18            box-shadow: 0 0 10px rgba(0,0,0,0.1);
19        }
20        table {
21            width: 100%;
22            border-collapse: collapse;
23            margin: 20px 0;
24        }
25        th, td {
26            padding: 12px;
27            text-align: left;
28            border-bottom: 1px solid #ddd;
29        }
30        th {
31            background-color: #f5f5f5;
32        }
33        .book-image {
34            width: 80px;
35            height: auto;
36        }
37        .quantity-input {
38            width: 50px;
39            padding: 5px;
40        }
41        .total-section {
42            text-align: right;
43            margin-top: 20px;
44        }
45        .remove-btn {
46            background-color: #ff4444;
47            color: white;
48            border: none;
49            padding: 5px 10px;
50            border-radius: 3px;
51            cursor: pointer;
```

```
52      }
53      .checkout-btn {
54          background-color: #4CAF50;
55          color: white;
56          border: none;
57          padding: 10px 20px;
58          border-radius: 3px;
59          cursor: pointer;
60          float: right;
61          margin-top: 10px;
62      }
63  
```

</style>

```
64 </head>
65 <body>
66     <div class="cart-container">
67         <h1>Shopping Cart</h1>
68         <table>
69             <thead>
70                 <tr>
71                     <th>Book</th>
72                     <th>Title</th>
73                     <th>Price</th>
74                     <th>Quantity</th>
75                     <th>Subtotal</th>
76                     <th>Action</th>
77                 </tr>
78             </thead>
79             <tbody>
80                 <tr>
81                     <td></td>
82                     <td>Let Us C</td>
83                     <td>₹365</td>
84                     <td><input type="number" class="quantity-input" value="1"
min="1"></td>
85                     <td>₹365</td>
86                     <td><button class="remove-btn">Remove</button></td>
87                 </tr>
88                 <tr>
89                     <td></td>
90                     <td>Core Python Programming</td>
91                     <td>₹1,475</td>
92                     <td><input type="number" class="quantity-input" value="1"
min="1"></td>
93                     <td>₹1,475</td>
94                     <td><button class="remove-btn">Remove</button></td>
95                 </tr>
96             </tbody>
97         </table>
98
99         <div class="total-section">
```

```
100      <p>Subtotal: ₹1,840</p>
101      <p>Tax (18% GST): ₹331.20</p>
102      <p><strong>Total: ₹2,171.20</strong></p>
103      <button class="checkout-btn">Proceed to Checkout</button>
104      </div>
105  </div>
106</body>
107</html>
108
```

# Experiment 6: Creating a Registration Page

## Objective

Create a registration form with specific input fields using HTML and CSS for an online bookstore website.

## Implementation Overview

### Files

- [reg\\_page.html](#): Main registration page
- Scripts used:
  - validation\_name\_pass.js : Validates name and password
  - validation\_email\_phno.js : Validates email and phone number

### Form Fields

1. Full Name
2. Email Address
3. Password
4. Confirm Password
5. Phone Number
6. Address
7. City
8. Country (Dropdown)

### Features

- Clean, responsive design
- Form validation integration
- Modern styling with CSS
- User-friendly layout

# **Styling Details**

- Font family: Arial, sans-serif
- Background color: #f4f4f4
- Form container:
  - Max width: 600px
  - White background
  - Rounded corners
  - Box shadow for depth

# **Usage**

1. Open the registration page
2. Fill in all required fields
3. Form validates input on submission
4. Successfully validated forms can be submitted

# **Related Experiments**

- Experiment 7: JavaScript validation for name and password
- Experiment 8: JavaScript validation for email and phone number

# Create Your Account

**Full Name:**

**Email Address:**

**Password:**

**Confirm Password:**

**Phone Number:**

**Address:**

**City:**

**Country:**

**Register**

## Web Workshop [College LAB]\Exp6\reg\_page.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <title>Book Store - Registration</title>
5     <style>
6         body {
7             font-family: Arial, sans-serif;
8             background-color: #f4f4f4;
9             margin: 0;
10            padding: 20px;
11        }
12        .form-container {
13            max-width: 600px;
14            margin: 0 auto;
15            background-color: white;
16            padding: 20px;
17            border-radius: 5px;
18            box-shadow: 0 0 10px rgba(0,0,0,0.1);
19        }
20        .form-group {
21            margin-bottom: 15px;
22        }
23        label {
24            display: block;
25            margin-bottom: 5px;
26            font-weight: bold;
27        }
28        input[type="text"],
29        input[type="email"],
30        input[type="password"],
31        input[type="tel"],
32        select {
33            width: 100%;
34            padding: 8px;
35            border: 1px solid #ddd;
36            border-radius: 4px;
37            box-sizing: border-box;
38        }
39        .submit-btn {
40            background-color: #4CAF50;
41            color: white;
42            padding: 10px 20px;
43            border: none;
44            border-radius: 4px;
45            cursor: pointer;
46            font-size: 16px;
47        }
48        .submit-btn:hover {
49            background-color: #45a049;
50        }
51    </style>
```

```
52     <script src="../Exp7/validation_name_pass.js"></script>
53     <script src="../Exp8/validation_email_phno.js"></script>
54 </head>
55 <body>
56     <div class="form-container">
57         <h2>Create Your Account</h2>
58         <form action="#" method="POST" onsubmit="return validateForm() &&
validateEmailAndPhone()">
59             <div class="form-group">
60                 <label for="fullname">Full Name:</label>
61                 <input type="text" id="fullname" name="fullname" required>
62             </div>
63
64             <div class="form-group">
65                 <label for="email">Email Address:</label>
66                 <input type="email" id="email" name="email" required>
67             </div>
68
69             <div class="form-group">
70                 <label for="password">Password:</label>
71                 <input type="password" id="password" name="password" required>
72             </div>
73
74             <div class="form-group">
75                 <label for="confirm-password">Confirm Password:</label>
76                 <input type="password" id="confirm-password" name="confirm-password"
required>
77             </div>
78
79             <div class="form-group">
80                 <label for="phone">Phone Number:</label>
81                 <input type="tel" id="phone" name="phone" required>
82             </div>
83
84             <div class="form-group">
85                 <label for="address">Address:</label>
86                 <input type="text" id="address" name="address" required>
87             </div>
88
89             <div class="form-group">
90                 <label for="city">City:</label>
91                 <input type="text" id="city" name="city" required>
92             </div>
93
94             <div class="form-group">
95                 <label for="country">Country:</label>
96                 <select id="country" name="country" required>
97                     <option value="">Select a country</option>
98                     <option value="india">India</option>
99                     <option value="usa">USA</option>
100                    <option value="uk">UK</option>
101                    <option value="canada">Canada</option>
102                </select>
103            </div>
```

```
104  
105      <button type="submit" class="submit-btn">Register</button>  
106  </form>  
107 </div>  
108 </body>  
109 </html>  
110
```

# Experiment 7: JavaScript Validation for Name and Password

## Objective

Implement JavaScript validation for the name and password fields of the registration form created in Experiment 6.

## Implementation Details

### Files

- [validation\\_name\\_pass.js](#): JavaScript validation script
- Connected to [reg\\_page.html](#) from Experiment 6

## Validation Rules

### Name Validation

- Minimum length: 3 characters
- Allowed characters: letters and spaces only
- Pattern: `^[a-zA-Z\s]+$`

### Password Validation

- Minimum length: 8 characters
- Must contain at least:
  - One uppercase letter
  - One lowercase letter
  - One number
  - One special character (!@#\$%^&\*)

Web Workshop [College LAB]\Exp7\validation\_name\_pass.js

```
1 function validateForm() {
2     // Get form elements
3     const fullname = document.getElementById('fullname').value;
4     const password = document.getElementById('password').value;
5
6     // Name validation
7     if (fullname.length < 3) {
8         alert('Name must be at least 3 characters long');
9         return false;
10    }
11
12    if (!/^[a-zA-Z\s]+$/ .test(fullname)) {
13        alert('Name can only contain letters and spaces');
14        return false;
15    }
16
17    // Password validation
18    if (password.length < 8) {
19        alert('Password must be at least 8 characters long');
20        return false;
21    }
22
23    if (!/[A-Z]/ .test(password)) {
24        alert('Password must contain at least one uppercase letter');
25        return false;
26    }
27
28    if (!/[a-z]/ .test(password)) {
29        alert('Password must contain at least one lowercase letter');
30        return false;
31    }
32
33    if (!/[0-9]/ .test(password)) {
34        alert('Password must contain at least one number');
35        return false;
36    }
37
38    if (!/[!@#$%^&*]/ .test(password)) {
39        alert('Password must contain at least one special character (!@#$%^&*)');
40        return false;
41    }
42
43    return true;
44 }
```

# Experiment 8: Email and Phone Number Validation

## Objective

Implement JavaScript validation for email addresses and phone numbers, complementing the registration form validation from Experiments 6 and 7.

## Implementation Details

### Files

- [validation\\_email\\_phno.js](#): Main validation script
- Integrates with previous experiments' files

## Validation Rules

### Email Validation

- Must contain @ symbol
- Valid domain structure required
- Pattern: `^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$`
- Common invalid scenarios handled:
  - Missing @ symbol
  - Invalid domain format
  - Multiple @ symbols

### Phone Number Validation

- 10 digits required
- Optional country code (+91)
- Pattern: `^(+91[-\s]?)?[0]?(91)?[789]\d{9}$`
- Validates:
  - Indian mobile numbers

- Optional spacing/hyphens
- With/without country code

## Features

- Real-time validation
- Descriptive error messages
- Integration with main registration form
- Cross-browser compatibility

## Testing Scenarios

1. Valid email formats
2. Invalid email formats
3. Valid phone numbers
4. Invalid phone numbers
5. Edge cases handling

## Integration

- Works with Experiment 6's HTML form
- Complements Experiment 7's name/password validation
- Combined validation on form submission

**Web Workshop [College LAB]\Exp8\validation\_email\_phno.js**

```
1 function validateEmailAndPhone() {
2     // Get form elements
3     const email = document.getElementById('email').value;
4     const phone = document.getElementById('phone').value;
5
6     // Email validation using regex
7     const emailRegex = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}\$/;
8     if (!emailRegex.test(email)) {
9         alert('Please enter a valid email address');
10        return false;
11    }
12
13    // Phone number validation
14    // Accepts formats: +91 99999 99999 or 9999999999
15    const phoneRegex = ^(\+91[\s])?[0-9]{10}\$/;
16    if (!phoneRegex.test(phone)) {
17        alert('Please enter a valid 10-digit phone number (optionally with +91
prefix)');
18        return false;
19    }
20
21    return true;
22 }
```

# Experiment 9: Creating a Login Page with Session Management

## Objective

Develop a login page for the online bookstore website and implement session management to track user authentication status.

## Implementation Details

### Files

- `login.html` : HTML structure for the login page
- `login_style.css` : CSS styling for the login page
- `login.js` : JavaScript for form validation and session handling

### Features

- **Login Form:**
  - Email and password input fields
  - Submit button to process login
- **Client-Side Validation:**
  - Checks for empty fields
  - Validates email format
- **Session Management:**
  - Utilizes `sessionStorage` to maintain user session
  -

# Typography Showcase

## Main Content

This section uses our primary font style for clean readability.

## Decorative Section

This section features a more artistic font style.

## Technical Block

```
console.log("Monospace font for code samples");
```

*"Typography makes all the difference in design."*

**Web Workshop [College LAB]\Exp9\index.html**

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>Font Styles Demo</title>
7     <link rel="stylesheet" href="style.css">
8 </head>
9 <body>
10    <div class="container">
11        <h1>Typography Showcase</h1>
12
13        <section class="text-block primary-text">
14            <h2>Main Content</h2>
15            <p>This section uses our primary font style for clean readability.</p>
16        </section>
17
18        <section class="text-block decorative">
19            <h2>Decorative Section</h2>
20            <p>This section features a more artistic font style.</p>
21        </section>
22
23        <section class="text-block technical">
24            <h2>Technical Block</h2>
25            <p>console.log("Monospace font for code samples");</p>
26        </section>
27
28        <blockquote class="quote">
29            "Typography makes all the difference in design."
30        </blockquote>
31    </div>
32 </body>
33 </html>
```

```
52     padding: 1.5rem;
53 }
54
55 .quote {
56     font-family: 'Times New Roman', serif;
57     font-style: italic;
58     font-size: 1.5rem;
59     color: #546e7a;
60     border-left: 4px solid #ff9800;
61     padding-left: 2rem;
62     margin: 2rem 0;
63 }
64
65 /* Responsive Design */
66 @media (max-width: 768px) {
67     .container {
68         margin: 1rem;
69         padding: 1rem;
70     }
71
72     h1 {
73         font-size: 2rem;
74     }
75 }
```

## Web Workshop [College LAB]\Exp9\style.css

```
1 /* Base Styles */
2 body {
3     margin: 0;
4     padding: 0;
5     background-image: url('https://source.unsplash.com/1920x1080/?nature');
6     background-size: cover;
7     background-attachment: fixed;
8     font-family: 'Arial', sans-serif;
9     color: #333;
10    line-height: 1.6;
11 }
12
13 .container {
14     max-width: 1200px;
15     margin: 2rem auto;
16     padding: 2rem;
17     background-color: rgba(255, 255, 255, 0.9);
18     border-radius: 10px;
19     box-shadow: 0 0 20px rgba(0, 0, 0, 0.1);
20 }
21
22 /* Typography */
23 h1 {
24     font-family: 'Georgia', serif;
25     font-size: 3rem;
26     color: #2c3e50;
27     text-align: center;
28     margin-bottom: 2rem;
29 }
30
31 .text-block {
32     margin: 2rem 0;
33     padding: 1.5rem;
34     border-radius: 8px;
35 }
36
37 .primary-text {
38     font-family: 'Helvetica', sans-serif;
39     background-color: #f8f9fa;
40 }
41
42 .decorative {
43     font-family: 'Palatino', serif;
44     background-color: #fff3e0;
45     font-size: 1.2rem;
46 }
47
48 .technical {
49     font-family: 'Courier New', monospace;
50     background-color: #263238;
51     color: #e9ecef;
```

# **Experiment 10: CSS Background Images and Style Links**

## **Objective**

Implement CSS styling for background images and create styled links for the online bookstore website.

## **Implementation Details**

### **Files**

- `styles.css` : Main CSS file
- `background.html` : Demo page

# Welcome to My Website

This is a demo of background image and styled links

[Home](#)[About](#)[Contact](#)

## Web Workshop [College LAB]\Exp10\style.css

```
1 * {
2     margin: 0;
3     padding: 0;
4     box-sizing: border-box;
5 }
6
7 .background-container {
8     /* Add fallback color to check if container is rendering */
9     background-color: ■ #333;
10    background-image: url('./background.jpg');
11    background-size: cover;
12    background-position: center;
13    background-repeat: no-repeat;
14    min-height: 100vh;
15    width: 100%; /* Ensure full width */
16    display: flex;
17    flex-direction: column;
18    justify-content: center;
19    align-items: center;
20    text-align: center;
21    padding: 20px;
22    color: □ white /* Added for text visibility on fallback color */
23 }
24
25 .links-container {
26     margin-top: 30px;
27 }
28
29 .styled-link {
30     display: inline-block;
31     color: □ #ffffff;
32     text-decoration: none;
33     font-size: 1.2rem;
34     margin: 0 15px;
35     padding: 10px 20px;
36     border: 2px solid white;
37     border-radius: 5px;
38     transition: all 0.3s ease;
39 }
40
41 .styled-link:hover {
42     background-color: □ white
43     color: ■ #333;
44     transform: translateY(-3px);
45 }
```

**Web Workshop [College LAB]\Exp10\index.html**

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>Background & Links Demo</title>
7     <link rel="stylesheet" href="./style.css">
8 </head>
9 <body>
10    <div class="background-container">
11        <h1>Welcome to My Website</h1>
12        <p>This is a demo of background image and styled links</p>
13
14        <div class="links-container">
15            <a href="#" class="styled-link">Home</a>
16            <a href="#" class="styled-link">About</a>
17            <a href="#" class="styled-link">Contact</a>
18        </div>
19    </div>
20 </body>
21 </html>
```

# Experiment 11: A Questionnaire

## Objective

Create a questionnaire form using HTML and CSS, with JavaScript validation for required fields.

## Implementation Details

### Files

- [questionnaire.html](#): Main questionnaire form
- [questionnaire\\_style.css](#): CSS styling for the questionnaire form
- [validation\\_questionnaire.js](#): JavaScript validation script

# Feedback Questionnaire

**Full Name:**

**Gender:**

- Male  Female

**Age Group:**

Select age group ▼

**Interests (select all that apply):**

- Sports  Reading  Music

**Additional Comments:**

**Submit**

## Web Workshop [College LAB]\Exp11\index.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>Online Questionnaire</title>
7     <link rel="stylesheet" href=".style.css">
8 </head>
9 <body>
10    <div class="container">
11        <form id="questionnaireForm">
12            <h1>Feedback Questionnaire</h1>
13
14            <div class="question">
15                <label for="name">Full Name:</label>
16                <input type="text" id="name" required>
17            </div>
18
19            <div class="question">
20                <label>Gender:</label>
21                <div class="radio-group">
22                    <input type="radio" id="male" name="gender" value="male">
23                    <label for="male">Male</label>
24                    <input type="radio" id="female" name="gender" value="female">
25                    <label for="female">Female</label>
26                </div>
27            </div>
28
29            <div class="question">
30                <label for="age">Age Group:</label>
31                <select id="age" required>
32                    <option value="">Select age group</option>
33                    <option value="18-24">18-24</option>
34                    <option value="25-34">25-34</option>
35                    <option value="35-44">35-44</option>
36                    <option value="45+">>45+</option>
37                </select>
38            </div>
39
40            <div class="question">
41                <label>Interests (select all that apply):</label>
42                <div class="checkbox-group">
43                    <input type="checkbox" id="sports" name="interests">
44                    <label for="sports">Sports</label>
45                    <input type="checkbox" id="reading" name="interests">
46                    <label for="reading">Reading</label>
47                    <input type="checkbox" id="music" name="interests">
48                    <label for="music">Music</label>
49                </div>
50            </div>
51
```

```
52     <div class="question">
53         <label for="feedback">Additional Comments:</label>
54         <textarea id="feedback" rows="4"></textarea>
55     </div>
56
57     <button type="submit">Submit</button>
58 </form>
59 </div>
60 <script src=".//script.js"></script>
61 </body>
62 </html>
```

## Web Workshop [College LAB]\Exp11\script.js

```
1 document.getElementById('questionnaireForm').addEventListener('submit', function(e) {
2     e.preventDefault();
3
4     // Form validation
5     const name = document.getElementById('name').value;
6     const gender = document.querySelector('input[name="gender"]:checked');
7     const age = document.getElementById('age').value;
8     const interests = document.querySelectorAll('input[name="interests"]:checked');
9     const feedback = document.getElementById('feedback').value;
10
11    // Validation checks
12    if (!name) {
13        alert('Please enter your name');
14        return;
15    }
16
17    if (!gender) {
18        alert('Please select your gender');
19        return;
20    }
21
22    if (!age) {
23        alert('Please select your age group');
24        return;
25    }
26
27    // Collect form data
28    const formData = {
29        name: name,
30        gender: gender.value,
31        age: age,
32        interests: Array.from(interests).map(cb => cb.id),
33        feedback: feedback
34    };
35
36    // Display submission confirmation
37    alert('Thank you for submitting the questionnaire!');
38    console.log('Form Data:', formData);
39
40    // Reset form
41    this.reset();
42});
```

## Web Workshop [College LAB]\Exp11\style.css

```
1 * {
2     margin: 0;
3     padding: 0;
4     box-sizing: border-box;
5 }
6
7 body {
8     font-family: Arial, sans-serif;
9     background-color: #f0f2f5;
10    line-height: 1.6;
11 }
12
13 .container {
14     max-width: 800px;
15     margin: 2rem auto;
16     padding: 2rem;
17 }
18
19 form {
20     background-color: white
21     padding: 2rem;
22     border-radius: 8px;
23     box-shadow: 0 2px 4px rgba(0,0,0,0.1);
24 }
25
26 h1 {
27     text-align: center;
28     color: #333;
29     margin-bottom: 2rem;
30 }
31
32 .question {
33     margin-bottom: 1.5rem;
34 }
35
36 label {
37     display: block;
38     margin-bottom: 0.5rem;
39     font-weight: bold;
40 }
41
42 input[type="text"],
43 select,
44 textarea {
45     width: 100%;
46     padding: 0.5rem;
47     border: 1px solid #ddd;
48     border-radius: 4px;
49     font-size: 1rem;
50 }
51
```

```
52 .radio-group,  
53 .checkbox-group {  
54   display: flex;  
55   gap: 1rem;  
56   margin-top: 0.5rem;  
57 }  
58  
59 button {  
60   background-color: #4CAF50;  
61   color: white;  
62   padding: 0.8rem 1.5rem;  
63   border: none;  
64   border-radius: 4px;  
65   cursor: pointer;  
66   width: 100%;  
67   font-size: 1rem;  
68   transition: background-color 0.3s;  
69 }  
70  
71 button:hover {  
72   background-color: #45a049;  
73 }  
74  
75 @media (max-width: 600px) {  
76   .container {  
77     margin: 1rem;  
78     padding: 1rem;  
79   }  
80 }
```