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Subject	Human Computer Interaction

Lab-08

Usability Engineering in Human-Computer Interaction

Task:

Designing a Usable E-commerce Website Task Description: Design an e-commerce website for a fictional online store selling outdoor gear. The website should allow users to browse products, add items to cart, and checkout.

Html Code:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>Outdoor Gear Store</title>
```

```
<style>
```

```
/* General Styles */
```

```
body {
```

```
font-family: Arial, sans-serif;
margin: 0;
padding: 0;
background-color: #f4f4f4;
}
```

```
header {
  background-color: #333;
  color: white;
  padding: 10px 0;
  display: flex;
  justify-content: space-between;
  align-items: center;
}
```

```
header .logo {
  font-size: 24px;
  font-weight: bold;
  padding-left: 20px;
}
```

```
header nav ul {
  list-style-type: none;
  margin: 0;
  padding-right: 20px;
}
```

```
header nav ul li {
```

```
display: inline;
margin-left: 20px;
}
```

```
header nav ul li a {
    text-decoration: none;
    color: white;
    font-size: 18px;
}
```

```
/* Main Section */
main {
    padding: 20px;
}
```

```
.product-list {
    display: flex;
    flex-wrap: wrap;
    gap: 20px;
    justify-content: space-around;
}
```

```
.product-item {
    background-color: white;
    padding: 10px;
    width: 200px;
    text-align: center;
    border: 1px solid #ddd;
```

```
    border-radius: 8px;  
}
```

```
.product-item img {  
    width: 100%;  
    height: auto;  
    border-radius: 5px;  
}
```

```
.product-item h3 {  
    font-size: 20px;  
    margin-top: 10px;  
}
```

```
.product-item p {  
    font-size: 18px;  
    margin: 5px 0;  
}
```

```
.product-item button {  
    background-color: #4CAF50;  
    color: white;  
    padding: 10px 20px;  
    border: none;  
    border-radius: 5px;  
    cursor: pointer;  
}
```

```
.product-item button:hover {  
    background-color: #45a049;  
}
```

```
/* Footer */
```

```
footer {  
    background-color: #333;  
    color: white;  
    text-align: center;  
    padding: 10px 0;  
    position: absolute;  
    width: 100%;  
    bottom: 0;  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<header>
```

```
<div class="logo">OutdoorGear</div>
```

```
<nav>
```

```
<ul>
```

```
<li><a href="#">Home</a></li>
```

```
<li><a href="#">Products</a></li>
```

```
<li><a href="#">Cart</a></li>
```

```
<li><a href="#">Checkout</a></li>
```

```
</ul>
```

```
</nav>
```

```
</header>
```

```
<main>
```

```
<section class="product-list">
```

```
<div class="product-item">
```

```

```

```
<h3>Tent</h3>
```

```
<p>$100</p>
```

```
<button>Add to Cart</button>
```

```
</div>
```

```
<div class="product-item">
```

```

```

```
<h3>Sleeping Bag</h3>
```

```
<p>$50</p>
```

```
<button>Add to Cart</button>
```

```
</div>
```

```
<div class="product-item">
```

```

```

```
<h3>Backpack</h3>
```

```
<p>$80</p>
```

```
<button>Add to Cart</button>
```

```
</div>
```

```
<div class="product-item">
```

```

```

```
<h3>Camping Stove</h3>
```

```
<p>$40</p>
```

```
<button>Add to Cart</button>
```

```
</div>
```

</section>

</main>

<footer>

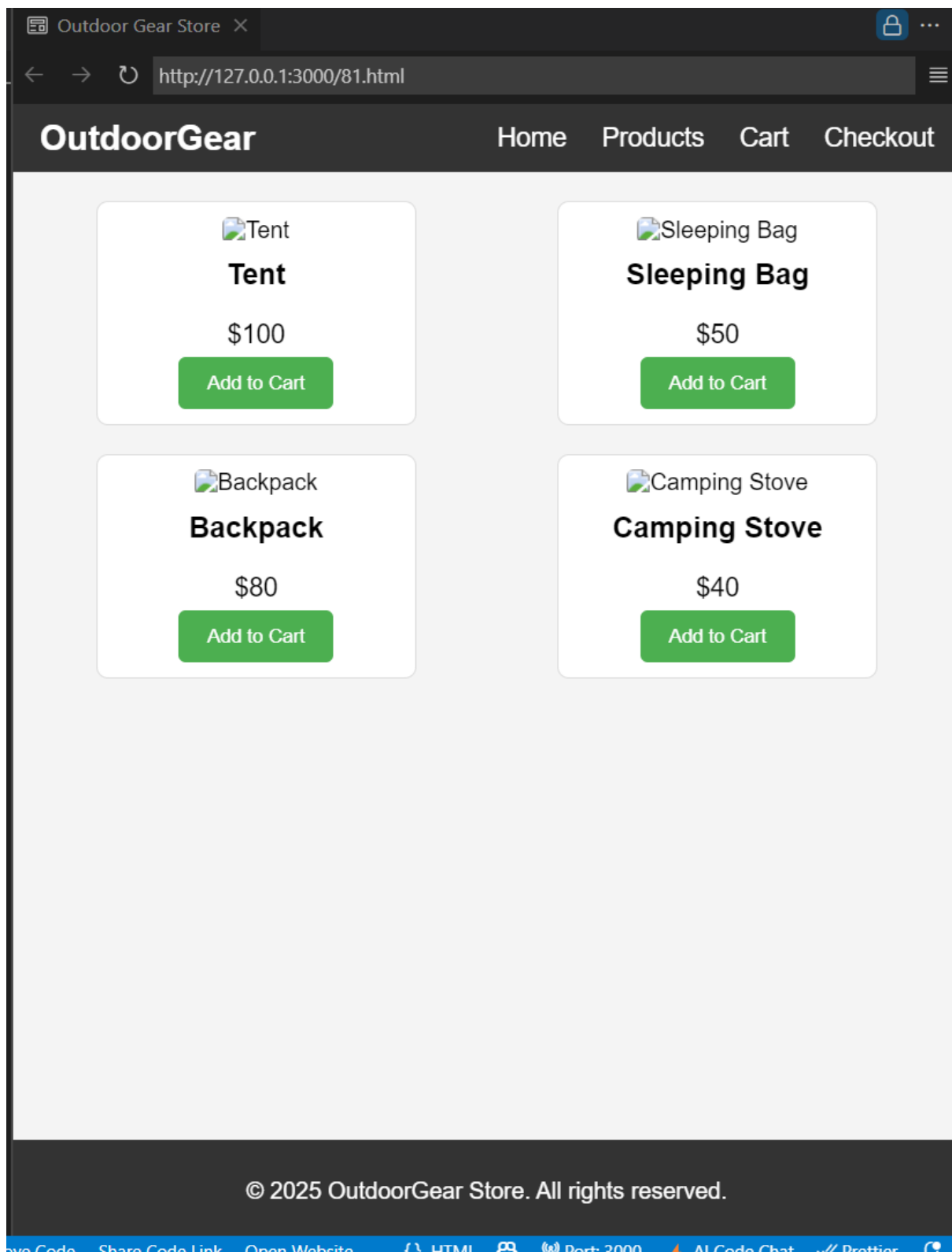
<p>© 2025 OutdoorGear Store. All rights reserved.</p>

</footer>

</body>

</html>

Interface:



Activity#02 User Interview

Objective: Understand the needs and goals of a potential user for an e-commerce outdoor gear website.

Interview Summary:

- **User Profile:** Farhan, 28, adventure enthusiast, frequently shops online for camping gear.
- **Interview Method:** Semi-structured interview (in person)
- **Questions & Responses:**
 1. **Q: How often do you shop online for outdoor gear?**
A: About once a month.
 2. **Q: What do you usually look for in an outdoor gear website?**
A: Fast loading, clear product categories, real user reviews, and secure checkout.
 3. **Q: What features do you find most useful?**
A: Product comparisons and filters by brand/price.
 4. **Q: What problems have you faced on other e-commerce websites?**
A: Confusing navigation and lack of mobile responsiveness.

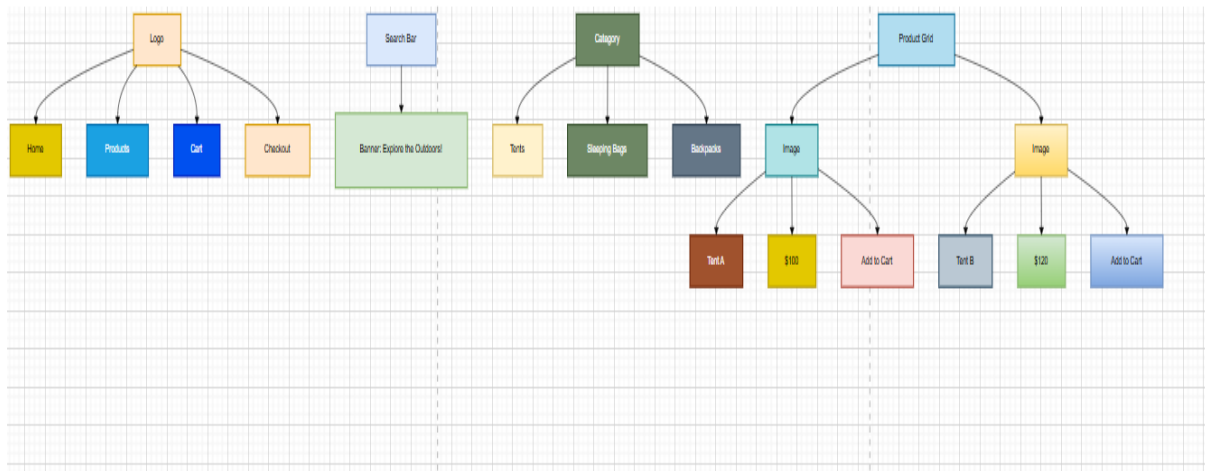
Insights:

- Users prioritize ease of navigation and trust indicators (reviews, secure checkout).
- Filtering options and responsive design are key usability factors.

Activity#03

Wireframing

Result:



Activity#04

Usability Testing Plan

Application: Outdoor Gear Store Website

Goal: Test how easily users can browse products, add to cart, and checkout.

Plan Outline:

- **Participants:** 5 target users (outdoor enthusiasts, age 18–40)
- **Test Scenarios:**
 1. Find and view details of a sleeping bag.
 2. Add a backpack to the cart.
 3. Navigate to the checkout page and simulate a purchase.
- **Metrics to Measure:**
 - Task completion time
 - Error rate
 - User satisfaction (via post-test survey)

- **Method:**
 - In-person testing or remote screen-sharing
 - Think-aloud protocol (user narrates their thoughts)
- **Data Collection:**
 - Observation notes
 - Screen recordings
 - User feedback form
- **Success Criteria:**
 - 80% task completion rate
 - Positive satisfaction score (4 out of 5 average)

THE END