# Day 4

# **Dynamic Frontend Components**

# **FurniNest**

#### 1. Introduction

This report explains how we built interactive and responsive frontend features for **FurniLand**. Our main focus was on:

- · Displaying products dynamically
- Adding a search bar for easy navigation
- Creating a structured Product Listing Page
- Designing a detailed Product Page
- Developing a shopping cart system
- Implementing a Wishlist feature
- Integrating secure payments using Stripe
- · Setting up user login and signup with Clerk

#### 2. Tasks Overview

## **Step 1: Product Listing**

- Fetched product data from an API.
- Displayed products in a user-friendly grid with names and prices.

### **Step 2: Product Detail Page**

- Created a separate page for each product.
- Added an "Add to Cart" button to make purchasing easier.

## **Step 3: Wishlist Functionality**

- Introduced an "Add to Wishlist" button so users can save favorite items.
- Stored wishlist data locally for a better user experience.
- Allowed users to view, add, and remove wishlist items.

### Step 4: Search Mechanism

• Added a search bar to help users find products quickly.

## **Step 5: Shopping Cart Functionality**

- Made it easy to add and remove products from the cart.
- Ensured cart updates happen instantly.

#### **Step 6: Checkout Process**

- Clicking checkout takes users to a secure payment page.
- Added fields for users to enter their order details.

#### **Step 7: Stripe Payment Integration**

- Integrated Stripe for secure payments.
- Set up a smooth checkout process.
- Ensured safe handling of payment details.
- Tested different payment options.

#### **Step 8: User Authentication with Clerk**

- Used Clerk to handle secure user login and signup.
- Enabled social login options like Google and GitHub.
- Managed user sessions for a seamless experience.

#### 3. Self-Assessment Checklist

- Frontend components developed: √
- Dynamic product display: ✓
- Product detail page: √
- Wishlist feature added:
- Search functionality: √
- Cart system working: √
- Checkout process completed: ✓
- User login and signup added: ✓
- Design is mobile-friendly: ✓
- Code is well-structured and optimized: ✓
- Documentation provided: ✓
- All features tested and working: ✓
- No major bugs found: √

### 4. Conclusion

This project successfully introduced key frontend features like **search**, **wishlist**, **dynamic product display**, **Stripe payments**, **and Clerk authentication**. These features improve the overall user experience, making the platform smooth and secure. In the future, we aim to add more enhancements like user roles and better authentication options.