

# Product Components - Complete Source Code & Documentation

## Table of Contents

- 1. [Products Grid](#)
- 2. [Product Card](#)
- 3. [Filter Sidebar](#)
- 4. [Products Container](#)
- 5. [Products List](#)
- 6. [Favorite Toggle Button](#)
- 7. [Products Grid With Auth](#)

## Products Grid

components/products/ProductsGrid.tsx

**Purpose:** Main grid layout for displaying wine products **Location:** [/components/products/ProductsGrid.tsx](#)

```
import { Card, CardContent } from "@components/ui/card";
import Link from "next/link";
import Image from "next/image";
import FavoriteToggleButton from "../FavoriteToggleButton";
import { Badge } from "@components/ui/badge";
import { formatCurrency } from "@lib/mock-data";
import { cn, wineVariants } from "@lib/design-system";
import { Star, MapPin } from "lucide-react";

interface Product {
  id: string;
  name: string;
  price: number;
  type: string;
  featured: boolean;
  images: { url: string }[];
  region: { name: string; country: string };
  averageRating?: number;
}

interface ProductsGridProps {
  products: Product[];
}

function ProductsGrid({ products }: ProductsGridProps) {
  return (
    <div className="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-3 xl:grid-cols-4 gap-6">
      {products.map((product) => (
        <ProductCard key={product.id} product={product} />
      ))}
    </div>
  );
}

function ProductCard({ product }: { product: Product }) {
  const { name, images, featured, price, type, region, averageRating } =
    product;

  if (!images?.length || !images[0]?.url) return null;
```

```
const imageUrl = images[0].url;
const formattedPrice = formatCurrency(price);

return (
  <article className="group relative">
    <Link href={`#`} className="block h-full">
      <Card
        className={cn(
          "h-full overflow-hidden transition-all duration-300",
          "hover:shadow-xl hover:-translate-y-1",
          "border-wine-100 hover:border-wine-200"
        )}
      >
        {/* Image Container */}
        <div className="relative aspect-[3/4] overflow-hidden">
          <Image
            src={imageUrl || "/placeholder.svg"}
            alt={name}
            fill
            className="object-cover transition-transform duration-300 group-
hover:scale-105"
            sizes="(max-width: 640px) 100vw, (max-width: 1024px) 50vw, (max-
width: 1280px) 33vw, 25vw"
          />

          {/* Featured Badge */}
          {featured && (
            <Badge
              className={cn(
                "absolute top-3 left-3 z-10",
                wineVariants.button.primary,
                "text-xs font-medium"
              )}
            >
              Featured
            </Badge>
          )}

          {/* Favorite Button */}
          <div className="absolute top-3 right-3 z-10 opacity-0 group-
hover:opacity-100 transition-opacity duration-200">
            <FavoriteToggleButton productId={product.id} />
          </div>

          {/* Price Overlay */}
          <div className="absolute bottom-0 left-0 right-0 bg-gradient-to-t
from-black/60 to-transparent p-4">
            <div className="text-white font-bold text-lg">
              {formattedPrice}
            </div>
          </div>
        </div>

        {/* Content */}
        <CardContent className="p-4 space-y-3">
          <div className="space-y-2">
            <h3 className="font-semibold text-lg leading-tight line-clamp-2
group-hover:text-wine-600 transition-colors">
              {name}
            </h3>

            <div className="flex items-center justify-between text-sm text-
muted-foreground">
              <span className="capitalize font-medium">{type}</span>
              {averageRating && (
                <div className="flex items-center gap-1">
```

```

        <Star className="h-4 w-4 fill-yellow-400 text-yellow-400"
/>
        <span className="font-medium">
            {averageRating.toFixed(1)}
        </span>
    </div>
    )}
</div>

    {region && (
        <div className="flex items-center gap-1 text-xs text-muted-
foreground">
            <MapPin className="h-3 w-3" />
            <span>
                {region.name}, {region.country}
            </span>
        </div>
    )}
    </div>
</CardContent>
</Card>
</Link>
</article>
    );
}

export default ProductsGrid;
```

Products Grid Features Explained:

- **Responsive Grid:** Adapts from 1 to 4 columns based on screen size
- **Product Cards:** Individual product display with hover effects
- **Image Optimization:** Next.js Image component with proper sizing
- **Featured Badges:** Highlights premium products
- **Favorite Toggle:** Quick add/remove from favorites
- **Price Overlay:** Prominent price display on images
- **Rating Display:** Shows user ratings when available

Filter Sidebar

components/products/FilterSidebar.tsx

**Purpose:** Sidebar for filtering and sorting wine products **Location:**

/components/products/FilterSidebar.tsx

```

"use client";

import { useState } from "react";
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Label } from "@/components/ui/label";
import { Checkbox } from "@/components/ui/checkbox";
import {
    Select,
    SelectContent,
    SelectItem,
    SelectTrigger,
    SelectValue,
} from "@/components/ui/select";
import { Slider } from "@/components/ui/slider";
import { Separator } from "@/components/ui/separator";
import { X, Filter, SortAsc, SortDesc } from "lucide-react";
import { cn } from "@/lib/utils";
```

```
interface FilterSidebarProps {
  isOpen: boolean;
  onClose: () => void;
  onFiltersChange: (filters: any) => void;
}

const wineTypes = [
  "Red Wine",
  "White Wine",
  "Rosé Wine",
  "Sparkling Wine",
  "Dessert Wine",
  "Fortified Wine",
];

const regions = [
  "France",
  "Italy",
  "Spain",
  "United States",
  "Australia",
  "Argentina",
  "Chile",
  "Germany",
  "New Zealand",
  "South Africa",
];

const priceRanges = [
  { label: "Under $20", min: 0, max: 20 },
  { label: "$20 – $50", min: 20, max: 50 },
  { label: "$50 – $100", min: 50, max: 100 },
  { label: "$100 – $200", min: 100, max: 200 },
  { label: "Over $200", min: 200, max: 1000 },
];

export default function FilterSidebar({
  isOpen,
  onClose,
  onFiltersChange,
}: FilterSidebarProps) {
  const [filters, setFilters] = useState({
    search: "",
    types: [] as string[],
    regions: [] as string[],
    priceRange: [0, 500] as [number, number],
    rating: 0,
    featured: false,
    sortBy: "name",
    sortOrder: "asc" as "asc" | "desc",
  });

  const handleFilterChange = (key: string, value: any) => {
    const newFilters = { ...filters, [key]: value };
    setFilters(newFilters);
    onFiltersChange(newFilters);
  };

  const handleTypeToggle = (type: string) => {
    const newTypes = filters.types.includes(type)
      ? filters.types.filter((t) => t !== type)
      : [...filters.types, type];
    handleFilterChange("types", newTypes);
  };
}
```

```
const handleRegionToggle = (region: string) => {
  const newRegions = filters.regions.includes(region)
    ? filters.regions.filter((r) => r !== region)
    : [...filters.regions, region];
  handleFilterChange("regions", newRegions);
};

const clearFilters = () => {
  const clearedFilters = {
    search: "",
    types: [],
    regions: [],
    priceRange: [0, 500],
    rating: 0,
    featured: false,
    sortBy: "name",
    sortOrder: "asc" as "asc" | "desc",
  };
  setFilters(clearedFilters);
  onFiltersChange(clearedFilters);
};

const hasActiveFilters = Object.values(filters).some((value) => {
  if (Array.isArray(value)) return value.length > 0;
  if (typeof value === "number") return value > 0;
  if (typeof value === "string") return value !== "";
  return value === true;
});

return (
  <div
    className={cn(
      "fixed inset-y-0 left-0 z-50 w-80 bg-background border-r border-border
transform transition-transform duration-300 ease-in-out",
      isOpen ? "translate-x-0" : "-translate-x-full"
    )}
  >
    <div className="flex flex-col h-full">
      {/* Header */}
      <div className="flex items-center justify-between p-4 border-b border-
border">
        <div className="flex items-center gap-2">
          <Filter className="h-5 w-5" />
          <h2 className="text-lg font-semibold">Filters</h2>
        </div>
        <Button variant="ghost" size="sm" onClick={onClose}>
          <X className="h-5 w-5" />
        </Button>
      </div>

      {/* Content */}
      <div className="flex-1 overflow-y-auto p-4 space-y-6">
        {/* Search */}
        <div className="space-y-2">
          <Label htmlFor="search">Search Wines</Label>
          <Input
            id="search"
            placeholder="Search by name, region, or type..."
            value={filters.search}
            onChange={(e) => handleFilterChange("search", e.target.value)}
          />
        </div>

        {/* Sort */}
        <div className="space-y-2">
          <Label>Sort By</Label>
```

```
<div className="flex gap-2">
  <Select
    value={filters.sortBy}
    onChange={(value) => handleFilterChange("sortBy", value)}
  >
    <SelectTrigger className="flex-1">
      <SelectValue />
    </SelectTrigger>
    <SelectContent>
      <SelectItem value="name">Name</SelectItem>
      <SelectItem value="price">Price</SelectItem>
      <SelectItem value="rating">Rating</SelectItem>
      <SelectItem value="date">Date Added</SelectItem>
    </SelectContent>
  </Select>
  <Button
    variant="outline"
    size="icon"
    onClick={() =>
      handleFilterChange(
        "sortOrder",
        filters.sortOrder === "asc" ? "desc" : "asc"
      )
    }
  >
    {filters.sortOrder === "asc" ? (
      <SortAsc className="h-4 w-4" />
    ) : (
      <SortDesc className="h-4 w-4" />
    )}
  </Button>
</div>
</div>

<Separator />

{/* Wine Types */}
<div className="space-y-3">
  <Label>Wine Types</Label>
  <div className="space-y-2">
    {wineTypes.map((type) => (
      <div key={type} className="flex items-center space-x-2">
        <Checkbox
          id={type}
          checked={filters.types.includes(type)}
          onChange={() => handleTypeToggle(type)}
        />
        <Label
          htmlFor={type}
          className="text-sm font-normal cursor-pointer"
        >
          {type}
        </Label>
      </div>
    ))}
  </div>
</div>

<Separator />

{/* Regions */}
<div className="space-y-3">
  <Label>Regions</Label>
  <div className="space-y-2 max-h-40 overflow-y-auto">
    {regions.map((region) => (
      <div key={region} className="flex items-center space-x-2">
```

```

        <Checkbox
            id={region}
            checked={filters.regions.includes(region)}
            onChange={() => handleRegionToggle(region)}
        />
        <Label
            htmlFor={region}
            className="text-sm font-normal cursor-pointer"
        >
            {region}
        </Label>
    </div>
    )})
</div>
</div>

<Separator />

{/* Price Range */}
<div className="space-y-3">
    <Label>Price Range</Label>
    <div className="px-2">
        <Slider
            value={filters.priceRange}
            onChange={(value) =>
                handleFilterChange("priceRange", value)
            }
            max={500}
            min={0}
            step={10}
            className="w-full"
        />
        <div className="flex justify-between text-sm text-muted-foreground mt-2">
            <span>${filters.priceRange[0]}</span>
            <span>${filters.priceRange[1]}</span>
        </div>
    </div>
</div>

<Separator />

{/* Rating */}
<div className="space-y-3">
    <Label>Minimum Rating</Label>
    <div className="px-2">
        <Slider
            value={[filters.rating]}
            onChange={(value) =>
                handleFilterChange("rating", value[0])
            }
            max={5}
            min={0}
            step={0.5}
            className="w-full"
        />
        <div className="text-center text-sm text-muted-foreground mt-2">
            {filters.rating} stars
        </div>
    </div>
</div>

<Separator />

{/* Featured Only */}
<div className="space-y-3">
```

```
        <div className="flex items-center space-x-2">
          <Checkbox
            id="featured"
            checked={filters.featured}
            onChange={(checked) =>
              handleFilterChange("featured", checked)
            }
          />
          <Label
            htmlFor="featured"
            className="text-sm font-normal cursor-pointer"
          >
            Featured Wines Only
          </Label>
        </div>
      </div>
    </div>

    { /* Footer */ }
    <div className="p-4 border-t border-border">
      <div className="flex gap-2">
        <Button
          variant="outline"
          className="flex-1"
          onClick={clearFilters}
          disabled={!hasActiveFilters}
        >
          Clear All
        </Button>
        <Button className="flex-1" onClick={onClose}>
          Apply Filters
        </Button>
      </div>
    </div>
  </div>
</div>
);
}
```

Filter Sidebar Features Explained:

- **Search Functionality:** Text search across product attributes
- **Type Filtering:** Filter by wine types (red, white, rosé, etc.)
- **Region Filtering:** Filter by wine regions and countries
- **Price Range:** Slider for price range selection
- **Rating Filter:** Minimum rating threshold
- **Sorting Options:** Multiple sort criteria with direction
- **Featured Filter:** Show only featured wines
- **Responsive Design:** Mobile-friendly sidebar layout

Products Container

components/products/ProductsContainer.tsx

**Purpose:** Container component that manages product filtering and display **Location:** </components/products/ProductsContainer.tsx>

```
"use client";

import { useState, useEffect } from "react";
import { Button } from "@components/ui/button";
import { Filter, Grid, List } from "lucide-react";
import ProductsGrid from "../ProductsGrid";
```



```
import ProductsList from "./ProductsList";
import FilterSidebar from "./FilterSidebar";
import { cn } from "@lib/utils";

interface Product {
  id: string;
  name: string;
  price: number;
  type: string;
  featured: boolean;
  images: { url: string }[];
  region: { name: string; country: string };
  averageRating?: number;
}

interface ProductsContainerProps {
  initialProducts: Product[];
}

export default function ProductsContainer({
  initialProducts,
}: ProductsContainerProps) {
  const [products, setProducts] = useState<Product[]>(initialProducts);
  const [filteredProducts, setFilteredProducts] =
    useState<Product[]>(initialProducts);
  const [isFilterOpen, setIsFilterOpen] = useState(false);
  const [viewMode, setViewMode] = useState<"grid" | "list">("grid");
  const [filters, setFilters] = useState({});

  useEffect(() => {
    // Apply filters to products
    let filtered = [...products];

    // Apply search filter
    if (filters.search) {
      const searchTerm = filters.search.toLowerCase();
      filtered = filtered.filter(
        (product) =>
          product.name.toLowerCase().includes(searchTerm) ||
          product.type.toLowerCase().includes(searchTerm) ||
          product.region.name.toLowerCase().includes(searchTerm) ||
          product.region.country.toLowerCase().includes(searchTerm)
      );
    }

    // Apply type filter
    if (filters.types && filters.types.length > 0) {
      filtered = filtered.filter((product) =>
        filters.types.includes(product.type)
      );
    }

    // Apply region filter
    if (filters.regions && filters.regions.length > 0) {
      filtered = filtered.filter(
        (product) =>
          filters.regions.includes(product.region.name) ||
          filters.regions.includes(product.region.country)
      );
    }

    // Apply price filter
    if (filters.priceRange) {
      filtered = filtered.filter(
        (product) =>
          product.price >= filters.priceRange[0] &&
```

```
        product.price <= filters.priceRange[1]
    );
}

// Apply rating filter
if (filters.rating > 0) {
    filtered = filtered.filter(
        (product) =>
            product.averageRating && product.averageRating >= filters.rating
    );
}

// Apply featured filter
if (filters.featured) {
    filtered = filtered.filter((product) => product.featured);
}

// Apply sorting
if (filters.sortBy) {
    filtered.sort((a, b) => {
        let aValue: any, bValue: any;

        switch (filters.sortBy) {
            case "name":
                aValue = a.name.toLowerCase();
                bValue = b.name.toLowerCase();
                break;
            case "price":
                aValue = a.price;
                bValue = b.price;
                break;
            case "rating":
                aValue = a.averageRating || 0;
                bValue = b.averageRating || 0;
                break;
            case "date":
                // Assuming products have a date field
                aValue = new Date(a.createdAt || 0);
                bValue = new Date(b.createdAt || 0);
                break;
            default:
                return 0;
        }

        if (filters.sortOrder === "desc") {
            return aValue < bValue ? 1 : -1;
        }
        return aValue > bValue ? 1 : -1;
    });
}

setFilteredProducts(filtered);
}, [products, filters]);

const handleFiltersChange = (newFilters: any) => {
    setFilters(newFilters);
};

const toggleFilter = () => {
    setIsFilterOpen(!isFilterOpen);
};

return (
    <div className="relative">
        {/* Header */}
        <div className="flex items-center justify-between mb-6">
```



```
        </p>
      </div>
    ) : (
      <>
        {viewMode === "grid" ? (
          <ProductsGrid products={filteredProducts} />
        ) : (
          <ProductsList products={filteredProducts} />
        )}
      </>
    )}
  </div>

  {/* Filter Sidebar */}
  <FilterSidebar
    isOpen={isFilterOpen}
    onClose={() => setIsFilterOpen(false)}
    onFiltersChange={handleFiltersChange}
  />

  {/* Overlay */}
  {isFilterOpen && (
    <div
      className="fixed inset-0 bg-black/50 z-40"
      onClick={() => setIsFilterOpen(false)}
    />
  )}
</div>
);
}
```

Products Container Features Explained:

- **State Management:** Manages products, filters, and view modes
- **Filter Application:** Applies multiple filter criteria to products
- **View Modes:** Toggle between grid and list views
- **Filter Sidebar:** Integrates with filter sidebar component
- **Search Integration:** Real-time search across product attributes
- **Sorting:** Multiple sort options with direction control
- **Responsive Design:** Mobile-friendly filter controls

Products List

components/products/ProductsList.tsx

**Purpose:** List view layout for displaying wine products **Location:**

/components/products/ProductsList.tsx

```
import Link from "next/link";
import Image from "next/image";
import { Card, CardContent } from "@components/ui/card";
import { Badge } from "@components/ui/badge";
import { Button } from "@components/ui/button";
import { formatCurrency } from "@lib/mock-data";
import { cn, wineVariants } from "@lib/design-system";
import { Star, MapPin, Heart, ShoppingCart } from "lucide-react";
import FavoriteToggleButton from "../FavoriteToggleButton";

interface Product {
  id: string;
  name: string;
  price: number;
  type: string;
```

```
    featured: boolean;
    images: { url: string }[];
    region: { name: string; country: string };
    averageRating?: number;
    description?: string;
  }

interface ProductsListProps {
  products: Product[];
}

export default function ProductsList({ products }: ProductsListProps) {
  return (
    <div className="space-y-4">
      {products.map((product) => (
        <ProductListItem key={product.id} product={product} />
      ))}
    </div>
  );
}

function ProductListItem({ product }: { product: Product }) {
  const {
    name,
    images,
    featured,
    price,
    type,
    region,
    averageRating,
    description,
  } = product;

  if (!images?.length || !images[0]?.url) return null;

  const imageUrl = images[0].url;
  const formattedPrice = formatCurrency(price);

  return (
    <Card className="group hover:shadow-lg transition-all duration-300">
      <CardContent className="p-6">
        <div className="flex gap-6">
          {/* Image */}
          <div className="relative w-32 h-32 flex-shrink-0">
            <Image
              src={imageUrl || "/placeholder.svg"}
              alt={name}
              fill
              className="object-cover rounded-lg transition-transform duration-300 group-hover:scale-105"
              sizes="128px"
            />

            {featured && (
              <Badge
                className={cn(
                  "absolute top-2 left-2",
                  wineVariants.button.primary,
                  "text-xs font-medium"
                )}
              >
                Featured
              </Badge>
            )}
          </div>
        </div>
      </CardContent>
    </Card>
  );
}
```

```
        { /* Content */
        <div className="flex-1 min-w-0">
            <div className="flex items-start justify-between gap-4">
                <div className="flex-1 min-w-0">
                    <h3 className="text-xl font-semibold text-foreground group-
hover:text-primary transition-colors line-clamp-2">
                        {name}
                    </h3>

                    {description && (
                        <p className="text-muted-foreground mt-2 line-clamp-2">
                            {description}
                        </p>
                    )}

                    <div className="flex items-center gap-4 mt-3 text-sm text-
muted-foreground">
                        <span className="capitalize font-medium">{type}</span>
                        {averageRating && (
                            <div className="flex items-center gap-1">
                                <Star className="h-4 w-4 fill-yellow-400 text-yellow-400"
/>

                                <span className="font-medium">
                                    {averageRating.toFixed(1)}
                                </span>
                            </div>
                        )}
                        {region && (
                            <div className="flex items-center gap-1">
                                <MapPin className="h-3 w-3" />
                                <span>
                                    {region.name}, {region.country}
                                </span>
                            </div>
                        )}
                    </div>
                </div>
            </div>

            <div className="flex flex-col items-end gap-3">
                <div className="text-right">
                    <div className="text-2xl font-bold text-foreground">
                        {formattedPrice}
                    </div>
                </div>

                <div className="flex items-center gap-2">
                    <FavoriteToggleButton productId={product.id} />
                    <Button size="sm" className="flex items-center gap-2">
                        <ShoppingCart className="h-4 w-4" />
                        Add to Cart
                    </Button>
                </div>
            </div>
        </div>
    </div>
</CardContent>
</Card>
);
}
```

- Products List Features Explained:
- **List Layout:** Horizontal layout with image and content
  - **Product Details:** Comprehensive product information display

- **Action Buttons:** Quick add to favorites and cart
- **Hover Effects:** Smooth transitions and visual feedback
- **Responsive Design:** Adapts to different screen sizes
- **Image Optimization:** Proper image sizing and loading

## Favorite Toggle Button

components/products/FavoriteToggleButton.tsx

**Purpose:** Button for adding/removing products from favorites **Location:** </components/products/FavoriteToggleButton.tsx>

```
"use client";

import { useState } from "react";
import { Button } from "@components/ui/button";
import { Heart } from "lucide-react";
import { cn } from "@lib/utils";
import { useFavorites } from "@utils/actions";

interface FavoriteToggleButtonProps {
  productId: string;
  className?: string;
}

export default function FavoriteToggleButton({
  productId,
  className,
}: FavoriteToggleButtonProps) {
  const [isAnimating, setIsAnimating] = useState(false);
  const { isFavorite, toggleFavorite } = useFavorites(productId);

  const handleToggle = async () => {
    if (isAnimating) return;

    setIsAnimating(true);
    await toggleFavorite();

    setTimeout(() => {
      setIsAnimating(false);
    }, 300);
  };

  return (
    <Button
      variant="ghost"
      size="icon"
      onClick={handleToggle}
      className={cn(
        "h-8 w-8 rounded-full transition-all duration-300",
        isFavorite
          ? "bg-red-500 text-white hover:bg-red-600"
          : "bg-white/90 text-gray-600 hover:bg-white hover:text-red-500",
        isAnimating && "scale-110",
        className
      )}
      aria-label={isFavorite ? "Remove from favorites" : "Add to favorites"}
    >
      <Heart
        className={cn(
          "h-4 w-4 transition-all duration-300",
          isFavorite && "fill-current"
        )}
      />
    </Button>
  );
}
```

```
        </Button>
      );
    }
  }
```

Favorite Toggle Button Features Explained:

- **State Management:** Tracks favorite status and animation state
- **Visual Feedback:** Different styles for favorited/unfavorited states
- **Animation:** Smooth scale animation on click
- **Accessibility:** Proper ARIA labels for screen readers
- **Integration:** Uses favorites context for state management
- **Responsive Design:** Adapts to different button sizes

Products Grid With Auth

components/products/ProductsGridWithAuth.tsx

**Purpose:** Products grid with authentication-aware features **Location:**

</components/products/ProductsGridWithAuth.tsx>

```
"use client";

import { useAuth } from "@clerk/nextjs";
import { Card, CardContent } from "@components/ui/card";
import { Badge } from "@components/ui/badge";
import { Button } from "@components/ui/button";
import { formatCurrency } from "@lib/mock-data";
import { cn, wineVariants } from "@lib/design-system";
import { Star, MapPin, Heart, ShoppingCart, Lock } from "lucide-react";
import Link from "next/link";
import Image from "next/image";
import FavoriteToggleButton from "../FavoriteToggleButton";

interface Product {
  id: string;
  name: string;
  price: number;
  type: string;
  featured: boolean;
  images: { url: string }[];
  region: { name: string; country: string };
  averageRating?: number;
  requiresAuth?: boolean;
}

interface ProductsGridWithAuthProps {
  products: Product[];
}

export default function ProductsGridWithAuth({
  products,
}: ProductsGridWithAuthProps) {
  const { isSignedIn } = useAuth();

  return (
    <div className="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-3 xl:grid-
cols-4 gap-6">
      {products.map((product) => (
        <ProductCardWithAuth
          key={product.id}
          product={product}
          isSignedIn={isSignedIn}
        />
      ))}
    </div>
  );
}
```



```
    )}}
  </div>
);
}

function ProductCardWithAuth({
  product,
  isSignedIn,
}: {
  product: Product;
  isSignedIn: boolean;
}) {
  const {
    name,
    images,
    featured,
    price,
    type,
    region,
    averageRating,
    requiresAuth,
  } = product;

  if (!images?.length || !images[0]?.url) return null;

  const imageUrl = images[0].url;
  const formattedPrice = formatCurrency(price);
  const canInteract = isSignedIn || !requiresAuth;

  return (
    <article className="group relative">
      <Link href={`#${`}`} className="block h-full">
        <Card
          className={cn(
            "h-full overflow-hidden transition-all duration-300",
            "hover:shadow-xl hover:-translate-y-1",
            "border-wine-100 hover:border-wine-200",
            !canInteract && "opacity-75"
          )}
        >
          {/* Image Container */}
          <div className="relative aspect-[3/4] overflow-hidden">
            <Image
              src={imageUrl || "/placeholder.svg"}
              alt={name}
              fill
              className="object-cover transition-transform duration-300 group-
hover:scale-105"
              sizes="(max-width: 640px) 100vw, (max-width: 1024px) 50vw, (max-
width: 1280px) 33vw, 25vw"
            />

            {/* Featured Badge */}
            {featured && (
              <Badge
                className={cn(
                  "absolute top-3 left-3 z-10",
                  wineVariants.button.primary,
                  "text-xs font-medium"
                )}
              >
                Featured
              </Badge>
            )}

            {/* Auth Required Badge */}
```

```

    {requiresAuth && !isSignedIn && (
      <Badge
        variant="secondary"
        className="absolute top-3 right-3 z-10 bg-yellow-500 text-
white"
      >
        <Lock className="h-3 w-3 mr-1" />
        Sign In
      </Badge>
    )}

    {/* Favorite Button */}
    {canInteract && (
      <div className="absolute top-3 right-3 z-10 opacity-0 group-
hover:opacity-100 transition-opacity duration-200">
        <FavoriteToggleButton productId={product.id} />
      </div>
    )}

    {/* Price Overlay */}
    <div className="absolute bottom-0 left-0 right-0 bg-gradient-to-t
from-black/60 to-transparent p-4">
      <div className="text-white font-bold text-lg">
        {formattedPrice}
      </div>
    </div>
  </div>

  {/* Content */}
  <CardContent className="p-4 space-y-3">
    <div className="space-y-2">
      <h3 className="font-semibold text-lg leading-tight line-clamp-2
group-hover:text-wine-600 transition-colors">
        {name}
      </h3>

      <div className="flex items-center justify-between text-sm text-
muted-foreground">
        <span className="capitalize font-medium">{type}</span>
        {averageRating && (
          <div className="flex items-center gap-1">
            <Star className="h-4 w-4 fill-yellow-400 text-yellow-400"
/>

            <span className="font-medium">
              {averageRating.toFixed(1)}
            </span>
          </div>
        )}
      </div>

      {region && (
        <div className="flex items-center gap-1 text-xs text-muted-
foreground">
          <MapPin className="h-3 w-3" />
          <span>
            {region.name}, {region.country}
          </span>
        </div>
      )}
    </div>

    {/* Action Buttons */}
    <div className="flex gap-2">
      {canInteract ? (
        <>
          <Button size="sm" className="flex-1 flex items-center gap-2">

```

```
        <ShoppingCart className="h-4 w-4" />
        Add to Cart
      </Button>
      <FavoriteToggleButton productId={product.id} />
    </>
  ) : (
    <Link href="/sign-in" className="w-full">
      <Button
        size="sm"
        variant="outline"
        className="w-full flex items-center gap-2"
      >
        <Lock className="h-4 w-4" />
        Sign In to Purchase
      </Button>
    </Link>
  )}
</div>
</CardContent>
</Card>
</Link>
</article>
);
}
```

Products Grid With Auth Features Explained:

- **Authentication Awareness:** Different behavior for signed-in/out users
- **Protected Features:** Some products require authentication
- **Visual Indicators:** Clear signs for authentication requirements
- **Conditional Actions:** Different buttons based on auth status
- **Accessibility:** Proper labeling for authentication states
- **User Experience:** Smooth transitions between auth states

These product components provide a comprehensive product management system for the Wine Store application. They handle:

- **Product Display:** Multiple view modes (grid, list)
- **Filtering & Search:** Advanced filtering capabilities
- **User Interaction:** Favorites, cart, and authentication
- **Performance:** Optimized rendering and state management
- **Accessibility:** Screen reader support and keyboard navigation
- **Responsiveness:** Mobile-first design approach