

pizza-pantry/

```
|— app/                # App Router pages & layouts
|   |— layout.tsx      # Root layout
|   |— page.tsx        # Landing / redirect to login
|   |— dashboard/      # Protected routes
|   |   |— layout.tsx
|   |   |— page.tsx    # Inventory list page
|   |   |— items/
|   |       |— new/page.tsx # Add Item form
|   |       |— [id]/edit/page.tsx
|   |       |— [id]/audit/page.tsx
|   |       └─ [id]/adjust/page.tsx
|   └─ api/            # Server route handlers
|       |— items/
|           |— route.ts # POST (create), GET (list/search)
|           └─ [id]/route.ts # GET, PATCH, DELETE
|       └─ adjust/route.ts # POST stock adjustments
|   └─ auth/           # Clerk auth pages (or custom)
|
|— components/         # Reusable UI
|   |— forms/          # Zod + react-hook-form forms
|   |— ui/             # Buttons, modals, tables, inputs
|   └─ inventory/      # ItemCard, ItemTable, etc.
|
|— lib/
|   |— db.ts           # MongoDB connection helper
|   |— models/Item.ts  # Mongoose schema/model
|   |— validations/    # Zod schemas
|   └─ auth.ts         # Clerk middleware helpers
```

```
|  
|— styles/          # Global styles (Tailwind)  
|— utils/           # Utility functions  
|— public/          # Images/icons  
|— .env.example     # Example env file  
|— package.json  
|— tsconfig.json  
|— README.md
```

---

```
// lib/models/Item.ts  
  
import { Schema, model, models } from "mongoose";  
  
const ItemSchema = new Schema({  
  name: { type: String, required: true },  
  category: { type: String, required: true },  
  unit: { type: String, required: true }, // e.g., "kg", "box"  
  quantity: { type: Number, required: true, default: 0 },  
  reorderThreshold: { type: Number, default: 5 },  
  costPrice: { type: Number, required: true },  
  createdBy: { type: String, required: true }, // Clerk userId  
}, { timestamps: true });  
  
export default models.Item || model("Item", ItemSchema);
```

---

=====

Pizza Pantry

Sign in

Email

Password

Sign in

Don't have an account? sign up

Dashboard

SearchAll categories

Name	Category	Unit	Quantity	Chrest
Tomatoes	Vegetables	kg	50	\$2.00

Add Item

Name

Category

Unit

Quantity

Reorder Threshold

Cost Price

CancelSave

Adjust Quantity

☐ Add stock

☐ Remove stock

Delta

Reason (optional)

CancelAdjust

Audit Log

Date	Action	Delta	User
2025-08-15	Add	+10	user123
2025-05-21	Remove	-5	user123

Edit Item

Name

Category

Unit

Quantity

CancelUpdate

## app/layout.tsx

```
import './globals.css';
```

```
import { ClerkProvider } from '@clerk/nextjs';
```

```
export default function RootLayout({ children }: { children: React.ReactNode }) {
```

```
  return (
```

```
    <ClerkProvider>
```

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

```
        <body className="bg-gray-50 min-h-screen">{children}</body>
```

```
      </html>
```

```
    </ClerkProvider>
```

```
  );
```

```
}
```

### **app/page.tsx (redirect to dashboard or login)**

---

```
import { redirect } from "next/navigation";
```

```
import { auth } from "@clerk/nextjs";
```

```
export default function HomePage() {
```

```
  const { userId } = auth();
```

```
  if (!userId) redirect("/sign-in");
```

```
  else redirect("/dashboard");
```

```
}
```

### **app/dashboard/page.tsx (Inventory List)**

---

```
import InventoryTable from "@/components/inventory/InventoryTable";
```

```
import InventoryFilters from "@/components/inventory/InventoryFilters";
```

```
export default function DashboardPage() {
```

```
  return (
```

```
    <main className="p-6 space-y-4">
```

```
      <h1 className="text-2xl font-bold">Inventory</h1>
```

```
      <InventoryFilters />
```

```
      <InventoryTable items={[]} /> { /* placeholder */ }
```

```
    </main>
```

```
  );
```

```
}
```

---

### **app/dashboard/items/new/page.tsx (Add Item)**

---

```
import ItemForm from "@/components/inventory/ItemForm";

export default function AddItemPage() {
  return (
    <main className="p-6">
      <h1 className="text-xl font-bold">Add Item</h1>
      <ItemForm mode="create" />
    </main>
  );
}
```

### **app/dashboard/items/[id]/edit/page.tsx (Edit Item)**

---

```
import ItemForm from "@/components/inventory/ItemForm";

export default function EditItemPage() {
  return (
    <main className="p-6">
      <h1 className="text-xl font-bold">Edit Item</h1>
      <ItemForm mode="edit" />
    </main>
  );
}
```

---

---

**app/dashboard/items/[id]/audit/page.tsx (Audit Log)**

---

```
import AuditLogList from "@components/inventory/AuditLogList";
```

```
export default function AuditLogPage() {  
  return (  
    <main className="p-6">  
      <h1 className="text-xl font-bold">Audit Log</h1>  
      <AuditLogList logs={} />  
    </main>  
  );  
}
```

---

**components/inventory/InventoryTable.tsx**

---

```
"use client";
```

```
type Item = {  
  _id: string;  
  name: string;  
  category: string;  
  unit: string;  
  quantity: number;  
  reorderThreshold: number;  
  costPrice: number;
```

```
};
```

```
export default function InventoryTable({ items }: { items: Item[] }) {  
  return (  
    <table className="w-full border">  
      <thead className="bg-gray-100">  
        <tr>  
          <th>Name</th>  
          <th>Category</th>  
          <th>Unit</th>  
          <th>Quantity</th>  
          <th>Threshold</th>  
          <th>Cost</th>  
          <th>Actions</th>  
        </tr>  
      </thead>  
      <tbody>  
        {items.length === 0 ? (  
          <tr>  
            <td colspan={7} className="text-center p-4">No items found.</td>  
          </tr>  
        ) : (  
          items.map((item) => (  
            <tr key={item._id}>  
              <td>{item.name}</td>  
              <td>{item.category}</td>  
              <td>{item.unit}</td>  
              <td>{item.quantity}</td>  
              <td>{item.reorderThreshold}</td>
```

```

        <td>{item.costPrice}</td>

        <td>

            <button>Edit</button>

            <button>Adjust</button>

            <button>Audit</button>

            <button>Delete</button>

        </td>

    </tr>

    ))

    }}

</tbody>
</table>

);
}

```

components/inventory/InventoryFilters.tsx

---

```

"use client";

export default function InventoryFilters() {
    return (
        <div className="flex gap-2 mb-4">
            <input
                type="text"
                placeholder="Search..."
                className="border px-3 py-2 rounded w-1/3"
            />
            <select className="border px-3 py-2 rounded">
                <option value="">All categories</option>
                <option value="vegetables">Vegetables</option>
                <option value="meat">Meat</option>
            </select>
        </div>
    );
}

```



```
        <option value="dairy">Dairy</option>
      </select>
    </div>
  );
}
```

components/inventory/ItemForm.tsx

---

```
"use client";
```

```
type ItemFormProps = {
  mode: "create" | "edit";
};
```

```
export default function ItemForm({ mode }: ItemFormProps) {
  return (
    <form className="space-y-4 max-w-md">
      <input type="text" placeholder="Name" className="w-full border p-2" />
      <input type="text" placeholder="Category" className="w-full border p-2" />
      <input type="text" placeholder="Unit (e.g. kg, box)" className="w-full border p-2" />
      <input type="number" placeholder="Quantity" className="w-full border p-2" />
      <input type="number" placeholder="Reorder Threshold" className="w-full border p-2" />
      <input type="number" placeholder="Cost Price" className="w-full border p-2" />

      <div className="flex gap-2">
        <button type="button" className="px-4 py-2 border rounded">Cancel</button>
        <button type="submit" className="px-4 py-2 bg-blue-600 text-white rounded">
          {mode === "create" ? "Save" : "Update"}
        </button>
      </div>
    </form>
  );
}
```

```
    </form>
  );
}
```

components/inventory/AuditLogList.tsx

---

```
"use client";
```

```
type Log = {
  _id: string;
  action: "add" | "remove";
  delta: number;
  userId: string;
  createdAt: string;
};
```

```
export default function AuditLogList({ logs }: { logs: Log[] }) {
  return (
    <table className="w-full border">
      <thead className="bg-gray-100">
        <tr>
          <th>Date</th>
          <th>Action</th>
          <th>Delta</th>
          <th>User</th>
        </tr>
      </thead>
      <tbody>
```

```
{logs.length === 0 ? (  
  <tr>  
    <td colspan={4} className="text-center p-4">No logs available.</td>  
  </tr>  
) : (  
  logs.map((log) => (  
    <tr key={log._id}>  
      <td>{new Date(log.createdAt).toLocaleString()}</td>  
      <td>{log.action}</td>  
      <td>{log.delta}</td>  
      <td>{log.userId}</td>  
    </tr>  
  ))  
  )}  
</tbody>  
</table>  
);  
}
```

=====