

Lala store

Got it 👍

You want **simple, clean, beginner-friendly architecture** — **no code, only file structure + pages + database schema**, for a **clothing e-commerce site** using:

- **Backend:** C++ (Crow)
- **Frontend:** React
- **Database:** PostgreSQL (local server)
- **Features:** Home, Men, Women, Cart (+ recommended pages)

Let's keep this **clear and practical**, like something you'd actually build.

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## 1 Overall Simple Architecture

```
[ React Frontend ]
    |
    | REST API (JSON / HTTP)
    v
[ Crow C++ Backend ]
    |
    | SQL
    v
[ PostgreSQL (Local Server) ]
```

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## 2 Backend Structure (C++ + Crow)

 backend/

```
backend/
├── CMakeLists.txt
├── main.cpp
├── config/
│   └── db_config.json
├── db/
│   ├── connection.h
│   └── connection.cpp
├── routes/
│   ├── home_routes.cpp
│   ├── product_routes.cpp
│   ├── cart_routes.cpp
│   └── order_routes.cpp
├── models/
│   ├── User.h
│   ├── Product.h
│   ├── Category.h
│   ├── Cart.h
│   └── Order.h
└── utils/
    └── response_helper.h
```

### ◆ Purpose

- routes/ → API endpoints
  - models/ → data structures
  - db/ → PostgreSQL connection
  - config/ → local DB credentials
- 

## 3 Frontend Structure (React)

### frontend/

```
frontend/
├── public/
│   └── index.html
├── src/
│   ├── api/
│   │   └── api.js
│   ├── components/
│   │   ├── Navbar.jsx
│   │   ├── Footer.jsx
│   │   ├── ProductCard.jsx
│   │   └── CartItem.jsx
│   ├── pages/
│   │   ├── Home.jsx
│   │   ├── Men.jsx
│   │   ├── Women.jsx
│   │   ├── Cart.jsx
│   │   ├── ProductDetails.jsx
│   │   └── Checkout.jsx
│   ├── context/
│   │   └── CartContext.jsx
│   ├── App.jsx
│   └── main.jsx
```

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## 4 Website Pages (Simple & Recommended)

Page	Purpose
<b>Home</b>	Featured products, categories
<b>Men</b>	Men clothing items
<b>Women</b>	Women clothing items
<b>Product Details</b>	Size, color, add to cart
<b>Cart</b>	Selected products
<b>Checkout</b>	Place order

💡 Optional later:

- Login / Register
  - Admin dashboard
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## How Everything Connects (Simple Flow)

React Page (Men / Women / Cart)



API request (Axios)



Crow Route (C++)



PostgreSQL Query



JSON Response



React UI Update

