✨ PERN Stack E-Commerce Tutorial ✨

Highlights:

- ✨ Tech stack: PERN + TailwindCSS + DaisyUI
- 🚀 Rate Limiting & Bot Detection
- 🔥 Global state management with Zustand
- 🤖 AI Customer Support Chatbot using Groq LLM
- 🐞 Error handling on both server and client
- ☆ Deployment for FREE!
- ⏳ And much more!

🚀 Getting Started

Setup `.env` file

Create a `.env` file in the `/backend` folder:

```
# Server
PORT=3000

# PostgreSQL
PGUSER=your_pg_user
PGPASSWORD=your_pg_password
PGHOST=localhost
PGDATABASE=your_database_name
PGPORT=5432

# Arcjet (optional)
ARCJET_KEY=your_arcjet_key
ARCJET_ENV=development

# Groq AI LLM API for chatbot
GROQ_API_KEY=your_groq_api_key
```

📄 Installation & Running

Run the Backend API

```
cd backend
npm install
npm run dev
```

Server will run at: http://localhost:3000

Run the Frontend

```
cd frontend
npm install
npm run dev
```

Frontend will run at: http://localhost:5173

Notes

- ✅ Ensure **PostgreSQL** is running locally or use a remote DB URL.
- 🔑 The **Groq API key** is required for the AI chatbot. Without it, the chatbot will fallback to a default error message.
- 🌱 Use `npm run seed` (if implemented) to populate initial product data.
- 🚀 For **production deployment**, update `.env` with your production DB and API keys.

Tech Stack

Technology	Purpose
PostgreSQL	Database
Express.js	Backend Framework
React	Frontend Framework
Node.js	Runtime Environment
TailwindCSS	Styling
DaisyUI	UI Components
Zustand	State Management
Groq LLM	AI Chatbot
Arcjet	Rate Limiting & Bot Detection

License

This project is open source and available under the MIT License.

Contributing

Contributions, issues, and feature requests are welcome!

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