# ��〉 PERN Stack E-Commerce Tutorial ��♪



#### Highlights:

- Karata Tech stack: PERN + TailwindCSS + DaisyUI
- Ø Rate Limiting & Bot Detection
- S Global state management with Zustand
- 🗑 Al Customer Support Chatbot using Groq LLM
- ☆ Deployment for FREE!
- X 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

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#### 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.
- Same 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.



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	Al Chatbot
Arcjet	Rate Limiting & Bot Detection



### License

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



Contributions, issues, and feature requests are welcome!

Made with  $\bigcirc$  by RishabhhMittall

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