

PriceLens - Intelligent Price Comparison Platform

Welcome to the PriceLens project! This application helps users compare product prices across major e-commerce platforms like Amazon, Flipkart, Croma, and Reliance Digital in real-time.



Prerequisites

Before running this project, ensure you have **Node.js** installed on your machine.

- [Download Node.js](#)



Quick Start Guide

Follow these steps to get the full stack (Frontend + Backend) running.

Step 1: Setup the Backend (Server)

This handles the live price scraping from Google Shopping.

1. Open a terminal.
2. Navigate to the backend folder:
`cd backend`

3. Install dependencies:
`npm install`

4. Start the server:
`node server.js`

✅ You should see: "Backend server running on http://localhost:5000" **Keep this terminal window open!**

Step 2: Setup the Frontend (Client)

This runs the React user interface.

1. Open a **new** terminal window.
2. Navigate to the frontend folder:
`cd frontend`

3. Install dependencies:
`npm install`

4. Start the development server:
`npm run dev`

Step 3: View the App

Open your browser and go to the link shown in your frontend terminal (usually `http://localhost:5173`).

Configuration Notes

- **Authentication & Database:** The project is pre-configured with **Firebase** for user login and wishlists.
- **Live Data:** The backend is configured with **SerpApi** to fetch real-time pricing.

Troubleshooting:

- If you see "Demo Mode" or fake data, ensure your backend server (Step 1) is running.
- If you get an error about vite or tailwindcss not found, try deleting the `node_modules` folder in frontend and running `npm install` again.