

### Goal:

Build a simple **product catalog** web application that allows users to browse, filter, and search for products.

Your task is to build a product catalog that allows users to:

- Filter by category, manufacturer and price range
- Search by name, manufacturer or description (full-text search)
- Filter category specific attributes, e.g. batteries by capacity range, solar panels by power output and connectors by type

You don't have to implement any other functionalities like login or products editor.

## Technical Requirements

- **Backend:**
  - Use Laravel
  - You may use any database and similar tools for storing products
- **Data:**
  - Use only the sample data from provided CSV files
- **Frontend:**
  - Any approach is acceptable, including generating it with AI or using no-code tools
  - UI design will **not** be evaluated — focus on the quality of backend
- **Deployment:**
  - Deploy the working application so that we can test it
  - Provide us both:
    - Link to the **repository**
    - Link to the **live deployed app**
- **AI tools:**
  - You may use AI tools to generate the code, but please include documentation

## Description

**Three CSV files** are provided, representing product data for the photovoltaic industry:

- Solar panels
- Batteries
- Connectors

Each CSV file includes following columns:

- name, manufacturer, price, description

Plus, they include category-specific columns:

- **Batteries:** capacity
- **Solar panels:** power\_output
- **Connectors:** connector\_type

## Evaluation Criteria

We will evaluate based on:

- Code structure and quality
- Correct and efficient filtering/search logic
- DB design and design patterns

## Good luck!

If you have any questions, don't hesitate to contact us!