

## Technical challenge

### Async work

#### Objective

Build a prototype for an item detail page inspired by MercadoLibre

The screenshot shows a detailed product listing for the Samsung Galaxy A55 5G Dual SIM 256 GB azul oscuro 8 GB RAM. The main image of the phone is displayed prominently. The price is listed as US\$ 439 with a 12% OFF discount. There are several purchasing options: 'Comprar ahora' (Buy now) and 'Agregar al carrito' (Add to cart). The page also features a sidebar for the official Samsung store, showing its rating and reviews. Below the main product, there are sections for 'Productos relacionados' (Related products) and 'Características del producto' (Product features). The 'Características del producto' section lists various specifications such as screen size, memory, and camera details. The overall layout is clean and organized, typical of an e-commerce platform.

Also, build its supporting backend API. This exercise will test your ability to design and implement both a frontend view and backend functionality under time constraints.

## Requirements

### 1. Frontend: Items Page

Design & Functionality:

- Create an item detail page that mimics the look and feel of MercadoLibre.

The page should display key information such as:

- Product images
- Title and description
- Price
- Payment methods
- Seller information
- Additional details (e.g., ratings, reviews, or available stock)
- Recommendations isn't required
- Checkout logic is not required

User Experience:

- Ensure the page is responsive and user-friendly.

Stack:

- You can use any frontend technology or framework of your choice.

### 2. Backend: API Development

API Endpoints:

- Implement a RESTful API that supports the frontend by providing the necessary product details
- The primary endpoint should fetch product details

Stack:

- You can use any backend technology or framework of your choice
- Do not use real databases, persist everything in local JSON or CSV files

**Non-functional requirements:**

Proper error handling, documented, at least 80% code coverage

### Tool Usage

Allowed Tools: You may use and are encouraged to use GenAI tools, agentic IDEs, and other code assistance tools to help generate ideas or code.

Note: The final submitted code should reflect your understanding and modifications. Be prepared to explain the solution.

### 3. Documentation:

Along with your code submission, include a brief (1-2 page) document that:

- Explains your design choices.
- Describes any challenges you faced and how you addressed them.

### 4. Submission

Provide a link to your repository or a zipped project folder.

It must contain a run.md explaining how to run the project

