

Notes - Design Product Listings

Step 1: Define The Scope

Functional Requirements

- Product Card / Row \Rightarrow Name, Price, Image, Description, Reviews, Rating, Seller Name, Qty?
- Filters \Rightarrow What do we filter on, Single / Multiple Filters at a time
- Sorting \Rightarrow Sort by which column?
- Pagination \Rightarrow Number of products per page

Non-Functional Requirements

- Low Latency: 200 ms
- Availability vs Consistency: Highly Available, Eventually consistent (Price should be consistent)
- Scalability: 10 rps, 1000 rps, ,1 user, 10 M users
- DAU \Rightarrow Daily active users
- MAU \Rightarrow Monthly active users
- Type of device: Web / Android / iOS

Step 2: High-Level Design

Design Product Listings

Who are our Customers
What Products?
How many users?

