Notes - Design Product Listings

Step 1: Define the Scope

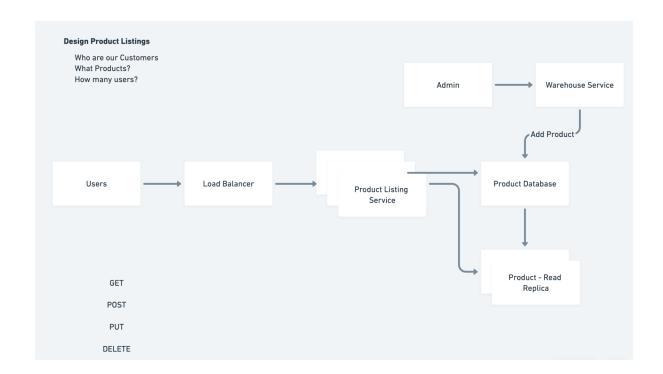
Functional Requirements

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

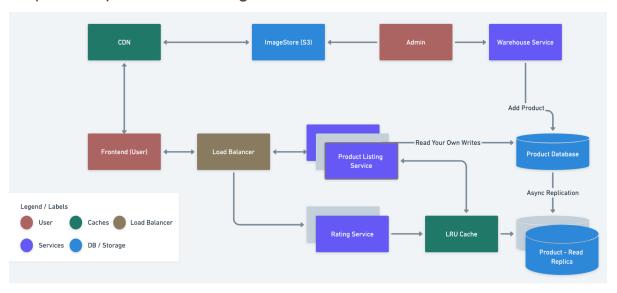
Non-Functional Requirements

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

Step 2: High-Level Design



Step 3: Deep-Dive Into Design:



Products Table	Category Table	ProductImag
1. productld	1. Categoryld	ProductId
2. name	2. CategoryName	lmageld
3. description		ImageType
4. price		
5. brand		
6. categoryld		

S3 URL for storing images:

s3://abhiShop/products/cs3://abhiShop/products/cj