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| CRUD Operations |

**Case Study:**

Below mentioned functionality needs to be implemented:

1. CRUD on Product

2. Get product by Category

3. Get Product by Brand

4. Get Product by Seller Code



various attributes of a Product.

1. PogId

2. Supc

3. Brand

4. Description

5. Size

6. Category

7. Sub Category

8. Price

9. Quantity

10. Country

11. Seller Code

12. Creation time

13. Stock

Since More products attributes can be added anytime, we can go for dynamic schema DB – MongoDB for this design

We use sharding in order to scale horizontally

We also use replication set in order to have a backup in case of data loss

We use 3 servers 🡪 1 primary and 2 secondary replication set

We use Index to improve performance and efficiency based on Category, Brand and Seller code

While selection, we use the $or operator to fetch the details based on the user inputs

When the Insert command is fired, the router will decide into which shard the record has to be inserted based on the config table metadata information.

