The provided basic code structure for the shopping cart can be enhanced to achieve the desired goal of scalability and fast response by:

* Load Balancing (NGINX)
* Caching

a. Static File Caching (AKAMAI)

b. Database Caching (MEMCACHE)

* Database Partitioning (MongoDB)

LOAD DISTRIBUTION:

To distribute the load across multiple computing environments, load distribution is an optimal solution. Hence the user is able to benefit from the quick response and avoid waiting for the desired response. NGINX can be used to overcome the problem faced due to high loads.

CACHING:

It will be done to deliver the commonly used files, etc to the user so that time and data bandwidth is not wasted every time the user requests some information.

Static File Caching:

A Content Delivery Network can be established where the files are delivered to the user from locations close to the user.

AKAMAI can be used as a Content Delivery Network

Database Caching:

MEMCAHCE can be used as a distributed memory caching system which can reduce the number of API requests by storing the cached data and objects in the RAM

DATABASE PARTITIONING:

In order to distribute the load on the database system, NoSQL database system such as MongoDB can be used for storage and retrieval of distributed data.