# ASSUMPTIONS

USER SERVICE ASSUMPTIONS:

* Ideally the authentication service would be a separate microservice implemented with a standard Authentication library like OAuth 2, but for the scope of this project, I have used a Base64 encode/decode of the user\_id as a token, which is not session based. The token will be valid forever.
* LogOut of User is not implemented.
* User can access all the products of the inventory, but cannot access other user’s cart or orders.

PRODUCT SERVICE ASSUMPTIONS

* Product can be added or deleted in the inventory by an Admin user ONLY.
* While deleting a product, admin can only entirely remove the product from the inventory. He/she cannot delete a quantity of product.
* Product would be a separate Microservice, as there would be heavy read as well as write on the service. There would be frequent searching as well as updations as orders are placed.

ORDER SERVICE ASSUMPTIONS

* An order can only be cancelled if it is placed.

CART SERVICE ASSUMPTIONS:

* User can access only one’s own cart.
* Once a user checks out, and order is created the product stock is decreased.
* A user and cart are associated, and there would be frequent access between the two, which is why it would be a separate microservice.