

Group 03 – Database Proposal

TeamMembers:

1. Dixaben Patel
2. Edward Chung
3. Yang Dai

Collections:

- 1) **USER:** The user collection will store data for all type of users (Owner, sellers, warehouse managers). User collection basically will help user to register and sign-in process.

```
{
  _id: '8d6997a2-d0x2-6f8c-s28d-8a12b45b1225',
  firstName: 'Dixa',
  lastName: 'Patel',
  email: 'dxptl@gmail.com',
  username: 'dx@ptl12',
  'hashed password': '4420d1918bbcf7686defdf9560bb5087d20076de5f77b7cb4c3b40bf46ec428b',
  userRole: 'Owner',
  address: 'Hoboken, NJ'
}
```

Name	Type	Description
_id	ObjectId	A unique autogenerated identifier to represent user.
firstName	String	First Name of User
lastName	String	Last Name of user
Email	String	Primary Email of User
username	String	Unique Username
Hashed password	String	User Password for Sign-in
userRole	String	Job Titles of User
address	String	Address of User

- 2) **INVENTORY:** The Inventory collection will store data for the products. This data can be added, deleted, and updated as per need by authorized user.

```
{
  _id: '8d6997a2-d0x2-6f8c-s28d-8a12b45b1226',
  productName: 'Outdoor Teak Wood Tile',
  productCategory: 'Tiles',
  manufacturer: 'DDRPL',
  productImage: {
    data: "fs.readFileSync(path.join(__dirname + '/uploads/' + req.file.filename))",
    contentType: 'image/png'
  },
  stock: 50,
  unitCost: 20,
  dimension: '12.4 x 12.4 x 7.28 inches',
  purchaseOrders: [
    '8d6997a2-d0x2-6f8c-s28d-8a12b45b1331',
    '8d6997a2-d0x2-6f8c-s28d-8a12b45b1332'
  ],
  nextPurchase: '09/30/2021',
  createdBy: 'dx@pt112',
  createdAt: '08/01/2021'
}
```

Name	Type	Description
_id	ObjectId	A unique autogenerated identifier for product.
productName	String	Name of Product
productCategory	String	Type of Product
manufacturer	String	Manufacturer of Product
productImage	{ bdata: Buffer, contentType: String }	Image of Product
stock	Number	Total qty of a Product
unitCost	Number	Cost per qty
dimension	String	Size of Product (l * W * H)
purchaseOrders	Array	Store previous purchase Id
nextPurchase	Date	Date of Next Purchase
createdBy	String	UserName of Creator or If Updator
createdAt	Date	The Date of creation or If updation

- 3) **ORDER:** The Order collection will store data of the orders. This data can be added, deleted, and updated as per need by authorized user.

```
{
  _id: '8d6997a2-d0x2-6f8c-s28d-8a12b45b1441',
  product_id: '8d6997a2-d0x2-6f8c-s28d-8a12b45b1226',
  seller_id: '8d6997a2-d0x2-6f8c-s28d-8a12b45b1335',
  totalQty: 60,
  order_cost: 1200,
  address: 'Belmar, NJ',
  delivery_date: 0.0001583374567046017,
  shipping_cost: 10,
  total_of_Order: 1210,
  order_status: 'Shipped'
}
```

Name	Type	Description
_id	ObjectId	A unique autogenerated identifier for order.
Product_id	String	productid from Inventory
Seller_id	String	Seller id from User
totalQty	Number	Total qty of a Product
order_cost	Number	Cost of order (before shipping)
address	String	Delivery Address
delivery_date	Date	Date of Delivery
shipping_cost	Number	Cost for Shipping & Handeling
Total of Order	Number	Order_cost + shipping_cost
order_status	String	Status of Order