

EXP-4.2:

E-commerce Catalog with Nested Document Structure in MongoDB:

```
{
  "_id": ObjectId("..."),
  "sku": "TSHIRT-001",
  "title": "Organic Cotton T-Shirt",
  "description": "100% organic cotton tee. Soft, breathable.",
  "brand": "GreenThreads",
  "categories": ["clothing", "mens", "t-shirts"],

  "attributes": [
    { "name": "material", "value": "organic cotton" },
    { "name": "fit", "value": "regular" }
  ],

  "variants": [
    {
      "variantId": "v1",
      "sku": "TSHIRT-001-RED-S",
      "price": 1999,
      "currency": "INR",
      "color": "red",
      "size": "S",
      "stock": 10,
      "images": ["img1.jpg", "img2.jpg"]
    },
    {
      "variantId": "v2",
      "sku": "TSHIRT-001-BLK-M",
      "price": 1999,
      "currency": "INR",
      "color": "black",
      "size": "M",
      "stock": 0,
      "images": ["img3.jpg"]
    }
  ],
}
```

```
"tags": ["eco-friendly", "summer"],
```

```
"rating": {  
  "avg": 4.3,  
  "count": 25  
},
```

```
"reviews": [  
  {  
    "userId": "user123",  
    "rating": 5,  
    "title": "Great fit",  
    "body": "Loved the fabric!",  
    "createdAt": "2025-09-20T12:00:00Z"  
  }  
],
```

```
"createdAt": "2025-09-01T08:00:00Z",  
"updatedAt": "2025-09-21T09:00:00Z"  
}
```

OUTPUTS:

