***Create a web API for Big Bazaar***

**Entities to create–**

1. **Item – ItemID, ItemName, Quantity**
2. **Transaction – TransactionID, TransactionType, ItemID, Quantity, DateOfTrans.**

**TransactionType will have values like – Purchase, Sale….**

1. **Use Basic Authentication for security of Web API.**

**Create Below methods for API.**

1. **Purchase – Pass below data.**
   1. **Item Object**
   2. **Purchase Date**

**If Item Name is not present in DB, it will create a new item in Item table.  
On Every purchase, item Quantity will be increased.**

1. **Sale – Pass below data.**
   1. **Item Object**
   2. **Sale Date**

**On Every Sale, stock will be decreased.**

**Validation - Sale quantity cannot be more than available quantity in Item table (Throw appropriate exception)**

1. **GetStock – List all the items Id, Name and Quantity.**