* PROBLEM STATEMENT



* SOLUTION
  + ASSUMPTION
    - I am assuming Customer may reach to shopping counter with multiple items either of same or different category.
    - Cashier on the Shopping counter will scan each item and get the scanned bar code into our system
    - On start up all the items and all categories are loaded into shop.
  + TECHNOLOGY USED

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| 1 | Spring Boot |
| 2. | Maven |
| 3. | J-unit |
| 4. | Rest WS |
| 5. | Core Java |
| 6. | IntelliJ IDEA |
| 7. | Post Man |

* SETUP
  + Clone code from git and run with IntelliJ IDEA.

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| GIT URL | https://github.com/piyushvj/ShopingCounter |

* + Under Resources folder of project there are two json file named barcodeitems.json & category.json for configuring items and category respectively.
  + Please provide path for both the files in application.properties
  + From Post-Man make a POST request with below data

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| REQUEST URL | http://localhost:9090/counter/generateInvoice |
| HTTP METHOD | POST |
| REQUEST PAYLOAD | [  "A001",  "A001",  "B001"  ] |

* + Response data categories items according to category and calculate tax amount as per quantity and category. Also, it contains the total count of items purchased, total of item price, total of items tax, and grand total which a customer has to pay.

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| RESPONSE PAYLOAD |
| {  "invoiceRowList": [  {  "serialNumber": 1,  "itemName": "Jeans",  "itemPrice": 3000,  "taxAmount": 600,  "itemQuantity": 2  },  {  "serialNumber": 2,  "itemName": "Guitars",  "itemPrice": 20000,  "taxAmount": 0,  "itemQuantity": 1  },  {  "serialNumber": 3,  "itemName": "Trumpet",  "itemPrice": 10000,  "taxAmount": 0,  "itemQuantity": 1  },  {  "serialNumber": 4,  "itemName": "Cauliflower",  "itemPrice": 40,  "taxAmount": 16,  "itemQuantity": 2  }  ],  "totalItem": 6,  "totalPrice": 36080,  "totalTax": 616,  "totalBillAmount": 36696  } |