**Delivery**

* Create a Java Program to address the below problem statement.
* The program should execute and be ready for production.
* We value production quality code over quantity – it is better to show us a smaller amount of great code over a larger amount of half working code.
* The code must be all of your own work and you’ll demo this to us during the interview.
* You may use any service, tool, library or framework at your disposal.
* Imagine your code is deployed to production via an automated pipeline – what do you have in place to ensure quality, performance and security?

**Problem Statement**

* Build a cashier program. Your Cashier program should:

1. Scan products along with their price and calculate a running total
2. Support cancelling an item
3. Support itemized total

Items to start – Runtime this list can grow

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Unit Price** | **Discount (%)** | **Quantity** | **Total** |
| Coffee 1KG | 20$ | 0 | 1 | 20$ |
| Tea 1KG | 15$ | 0 | 1 | 15$ |
| Oil 1L | 10$ | 0 | 2 | 20$ |
| Apples 1KG | 5$ | 0 | 4 | 20$ |
| Oranges 1KG | 3$ | 0 | 5 | 15$ |
| **Total** | | | | **90$** |

Source Code Repository

<https://github.com/SanyKumarSingh/DEMO/tree/main/ShoppingMart>

**ENTITY RELATIONSHIP DIAGRAM**

**1:N**

|  |
| --- |
| **PRODUCT** |
| PRODUCT\_CODE **(P.K)** |
| PRODUCT\_NAME |
| PRICE |
| PERSENT\_DISCOUNT |

|  |
| --- |
| **BILL** |
| BILL\_ID **(P.K)** |
| BILL\_AMOUNT |
| BILLING\_DATE |
| CASHIER\_NAME |
| *CUSTOMER\_ID* |

|  |
| --- |
| **CUSTOMER** |
| CUSTOMER\_ID **(P.K)** |
| FIRST\_NAME |
| LAST\_NAME |
| EMAIL\_ID |
| MOBILE\_NUMBER |
| REWARD\_POINTS |

**1:N**

|  |
| --- |
| **ITEM** |
| ID **(P.K)** |
| ITEM\_NAME |
| QUANTITY |
| PRODUCT\_CODE **(F.K)** |
| BILL\_ID **(F.K)** |