\*

Bill

GroceryItem

BillItem

Customer

Employee

Affiliate

Low Level Design for Discount Store

There is a Customer class with two specialized subclasses Employee and Discount. Customer keeps track of customer details including the start date of relationship. All these classes mention their discount percentages, For the base Customer, discount is applicable only for old customers.

BillItem captures name, description, quantity and rate. A GroceryItem is a special BillItem. A Bill refers to a Customer and has a number of BillItem in a List. It has the logic to compute bill total with discount.