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| **Class 1** | **Class 2** | **Type of Relationship** | **Explain Multiplicity or Inheritance** |
| Web User | Customer | Inheritance | The class web user inherits all the attributes that have been defined in the customer class |
| In Store User | Customer | Inheritance | In Store User inherits all the Customer attributes |
| Web User | Shopping Cart | Association | The association relationship implies that a shopping cart must have a web user and a web user can have 0 or many shopping carts |
| Shopping cart | Account | Composition | The shopping cart class must be associated with an account and in case of a deletion operation the shopping cart instance is also deleted |
| LineItem | Shopping Cart | Aggregation | Line Item class can exist in the shopping Cart class and also it can exist on its own |
| LineItem | Order | Association | The order class can contain at least one LineItem instance |
| Order | Account | Composition | The Order class must contain account class info and incase of account deletion the Order Class also gets deleted |
| Account | Customer | Composition | The Account class must contain Customer class info and incase of Customer class deletion the Account Class also gets deleted |
| Account | Payment | Association | Payment class should contain on account and an account might have zero or more payments |
| Payment | Order | Association | Payment should contain at least one order class |
| LineItem | Product | Association | Product class might have many line items but the LineItem class should contain at least on product |