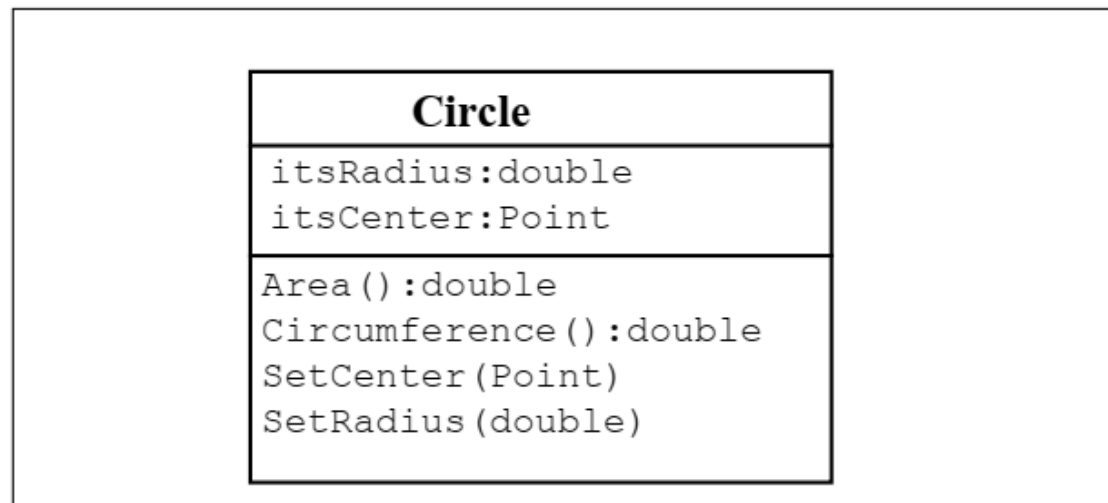
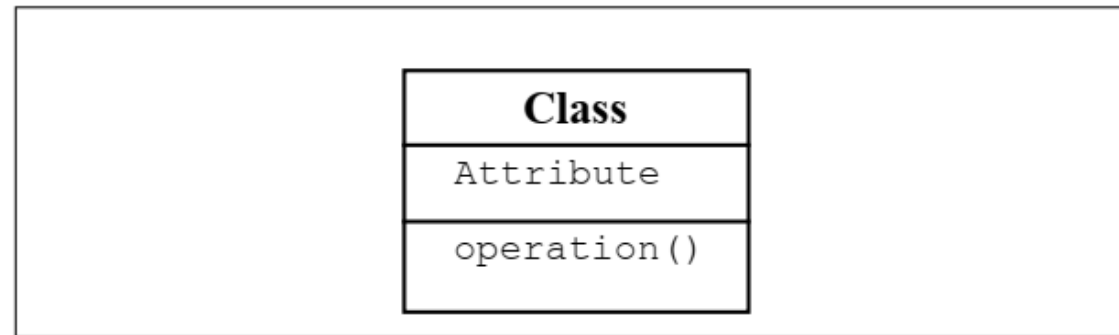


23MX21 – Class Diagrams



Circle Class

visibility

- + public
- # protected
- private
- ~ package (default)
- / derived

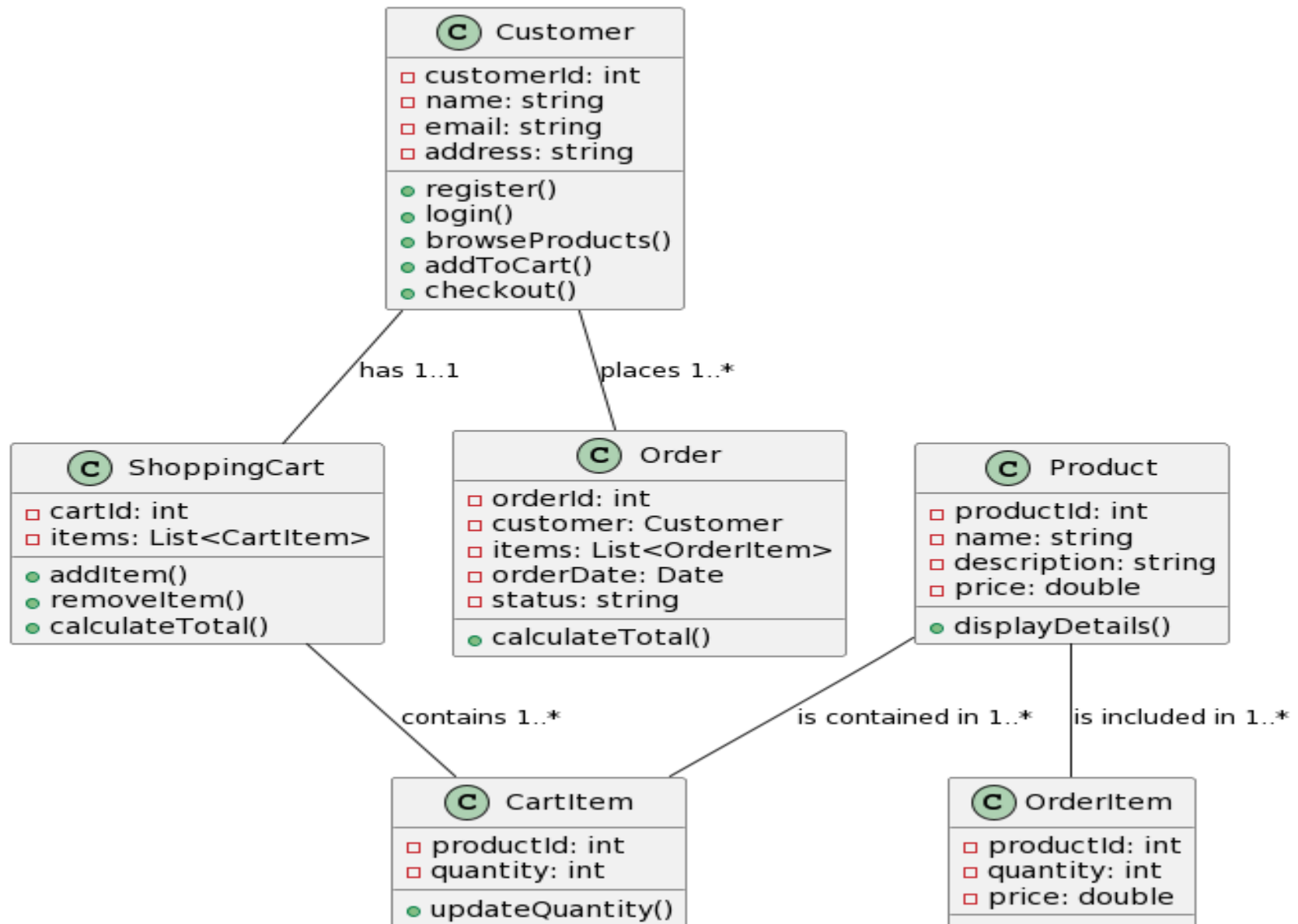
Rectangle
- width: int - height: int / area: double
+ Rectangle(w: int, h: int) + distance(r: Rectangle): double

Rectangle Class

Student
<ul style="list-style-type: none"> - name: String - id: int - <u>totalStudents: int</u>
getID(): int ~ getEmail(): String

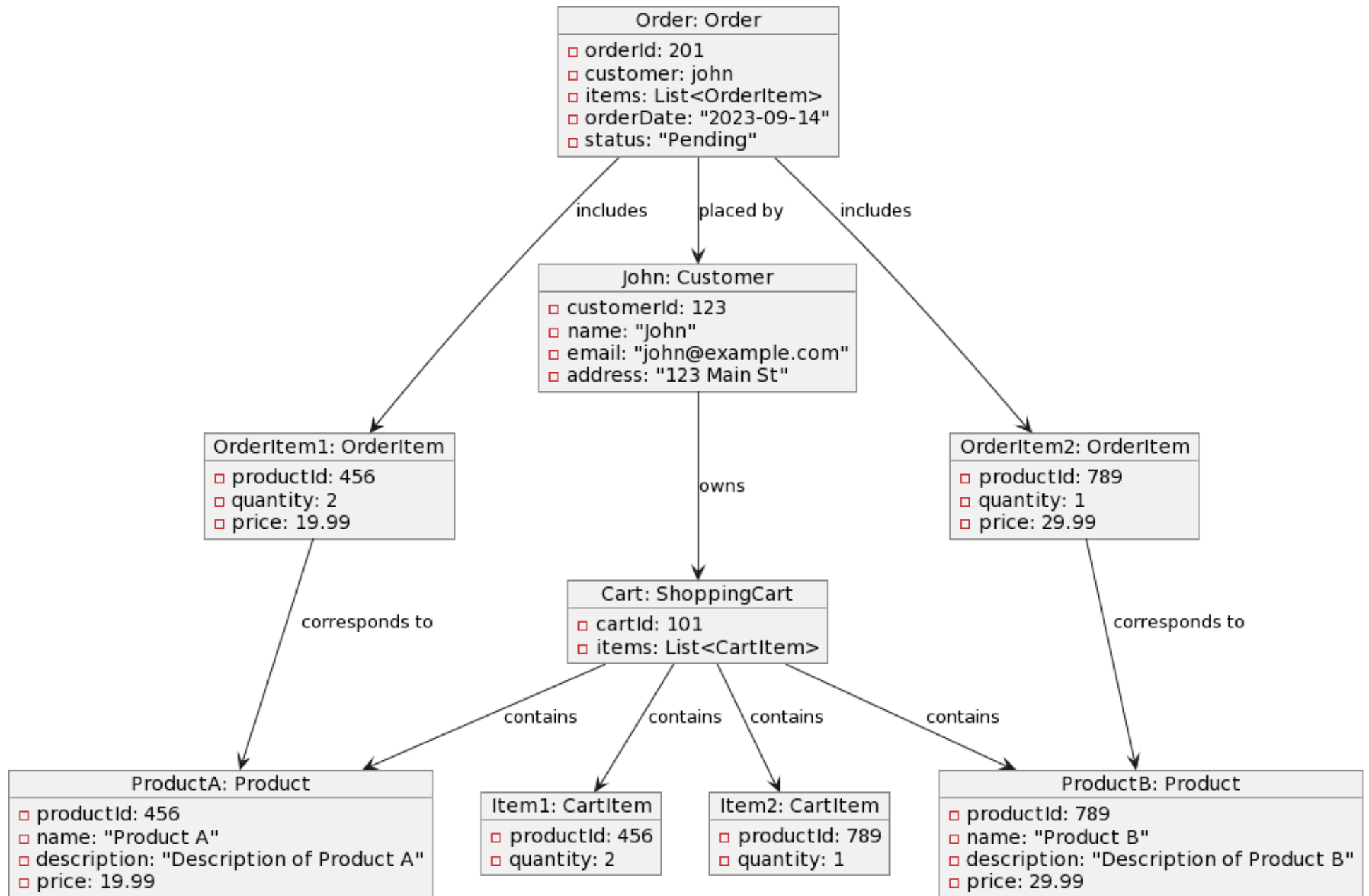
Student Class

Access Modifier	within class	within package	outside package by subclass only	outside package
Private	Y	N	N	N
Default	Y	Y	N	N
Protected	Y	Y	Y	N
Public	Y	Y	Y	Y

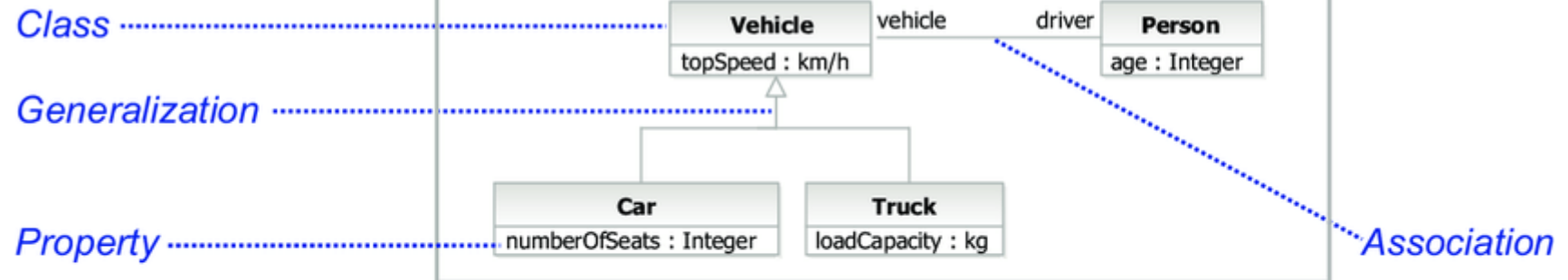


In this simplified diagram:

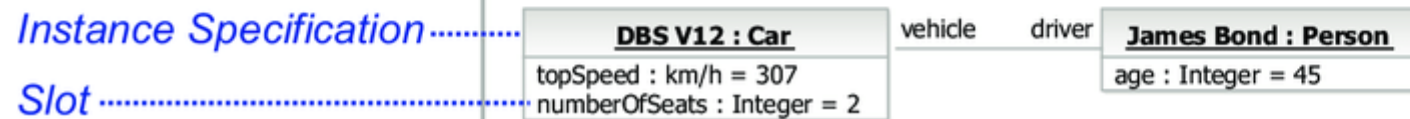
- Customer represents a registered user of the online shopping system.
- Product represents the items available for purchase.
- ShoppingCart represents the shopping cart where customers can add and remove items.
- CartItem represents individual items added to the shopping cart.
- Order represents a customer's order, which includes multiple items.
- OrderItem represents individual items within an order.

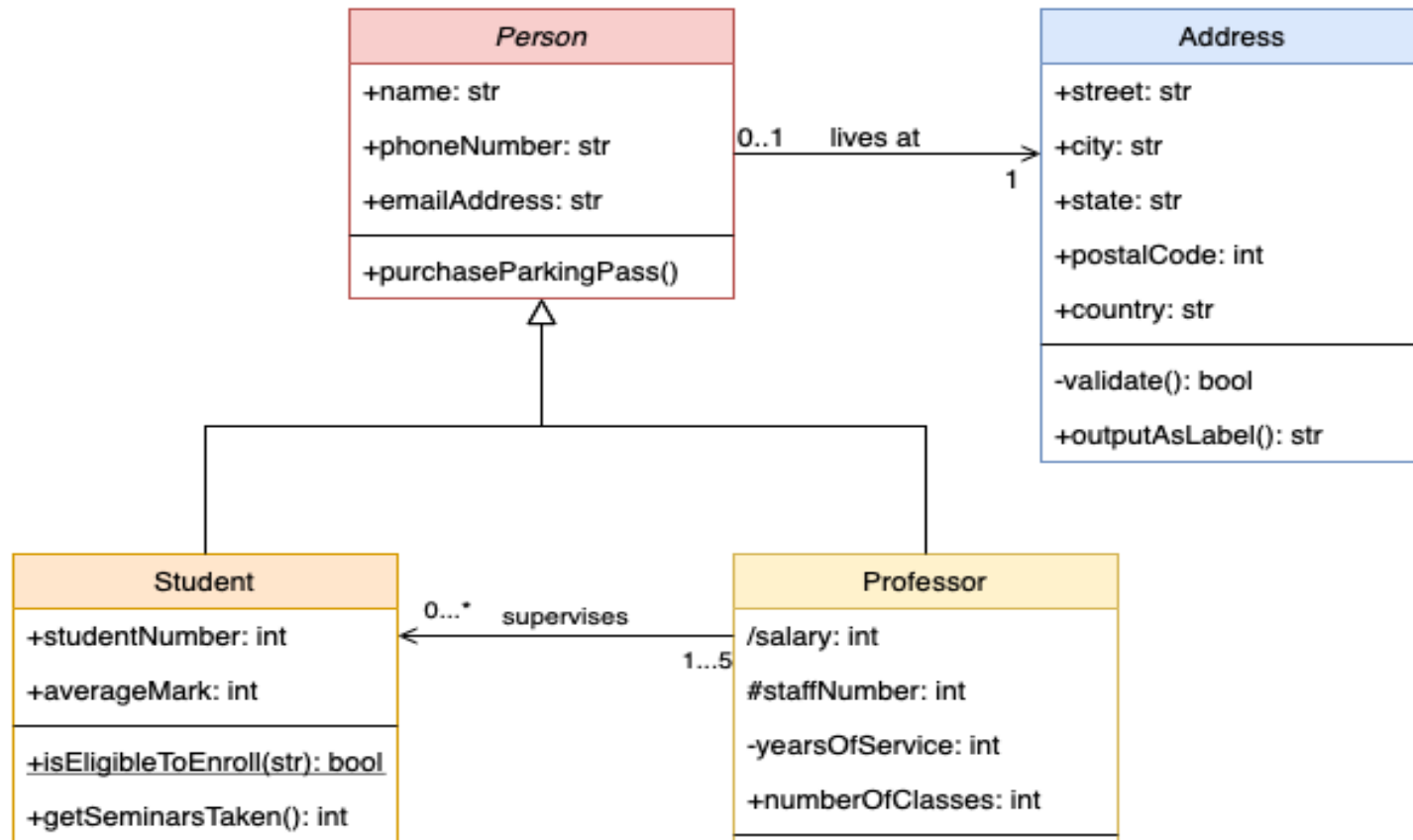


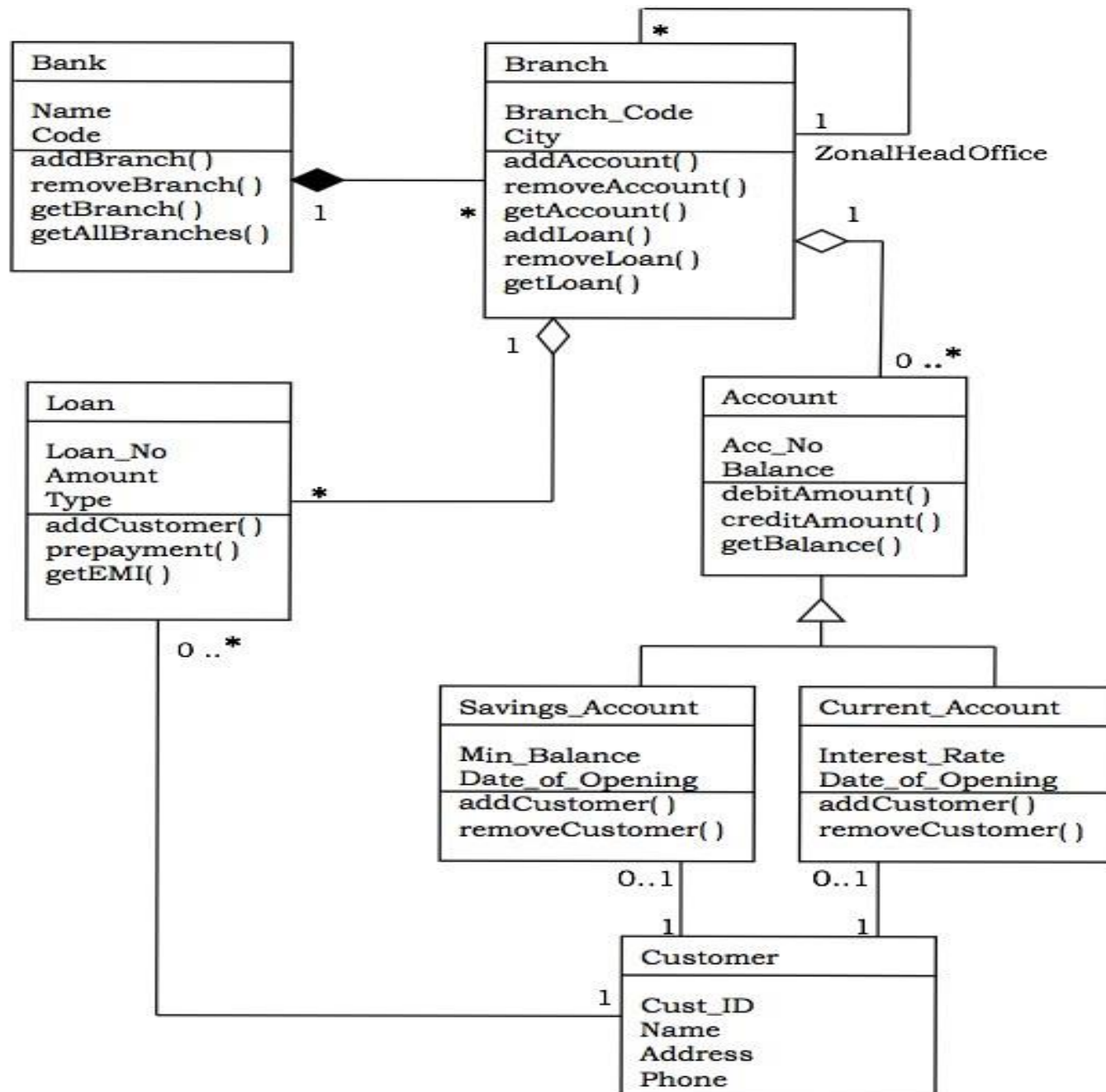
Class Diagram

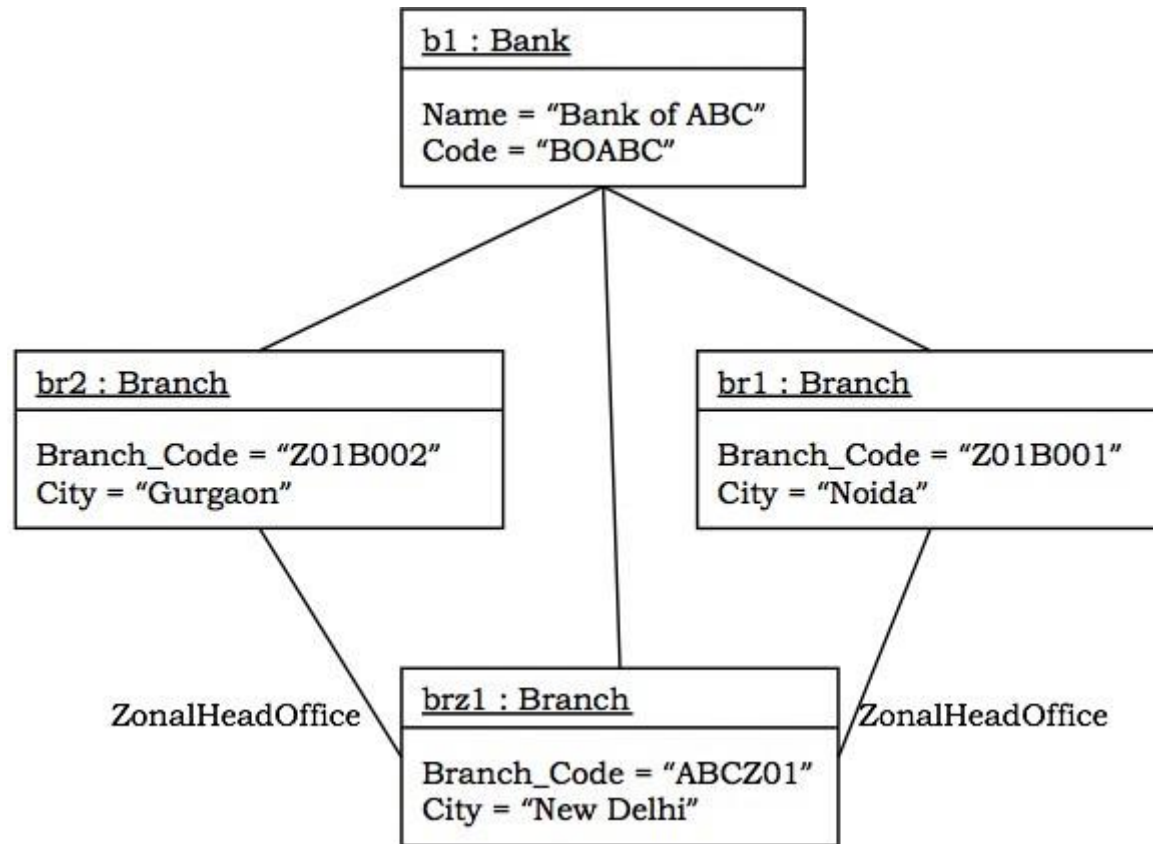


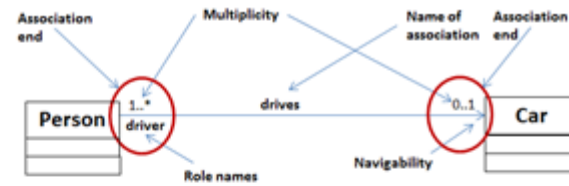
Object Diagram



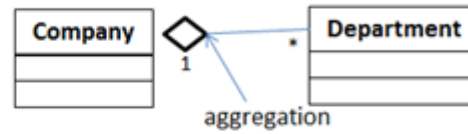




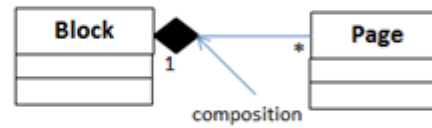




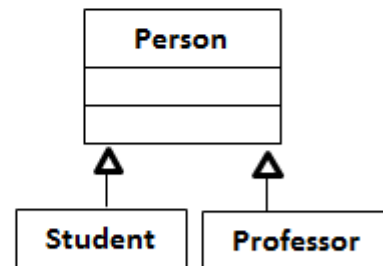
} Association



} Aggregation



} Composition



} Generalization

