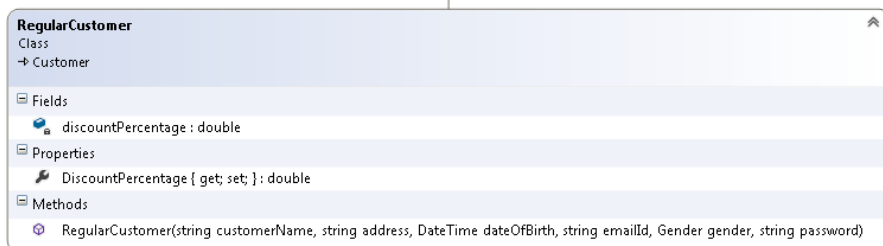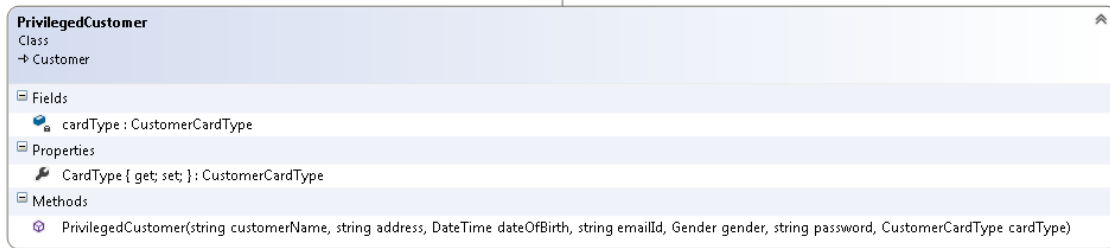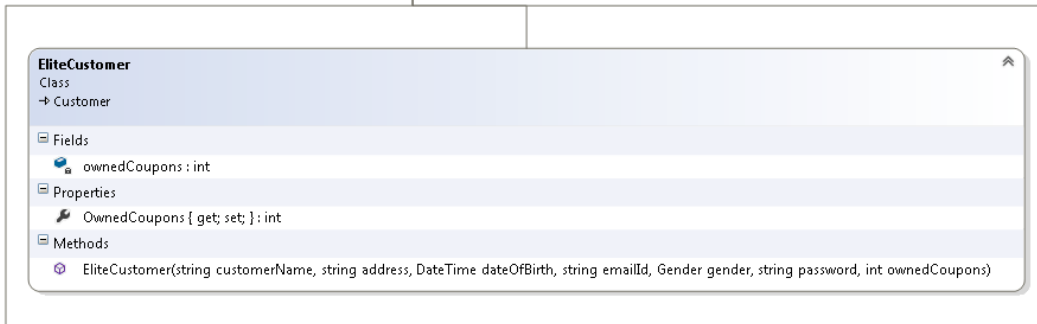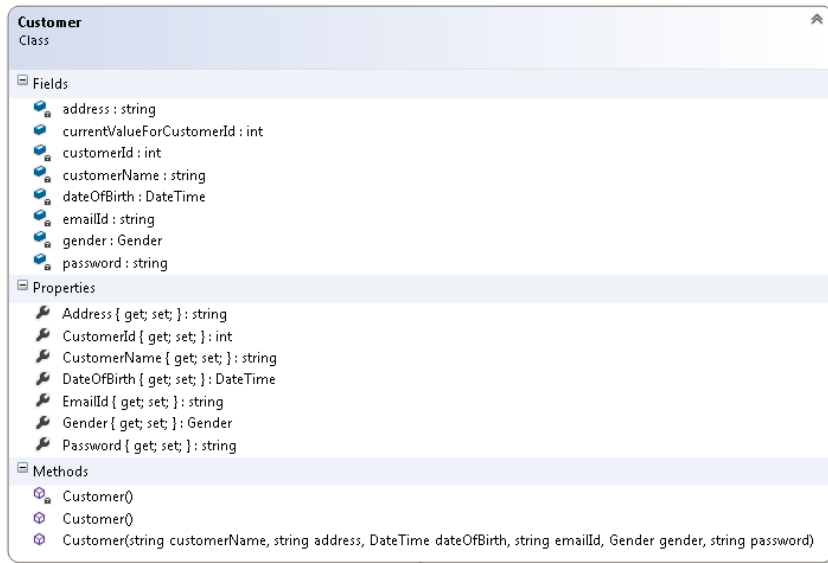MyCart wants to enhance its functionalities by giving discounts and discount coupons according to the type of the customer. Modify the class 'Customer' implement the relationships as shown below:

Confidential

Customer
Class

Fields
- 🔒 address : string
- currentValueForCustomerId : int
- 🔒 customerId : int
- 🔒 customerName : string
- 🔒 dateOfBirth : DateTime
- 🔒 emailId : string
- 🔒 gender : Gender
- 🔒 password : string

Properties
- 🔧 Address { get; set; } : string
- 🔧 CustomerId { get; set; } : int
- 🔧 CustomerName { get; set; } : string
- 🔧 DateOfBirth { get; set; } : DateTime
- 🔧 EmailId { get; set; } : string
- 🔧 Gender { get; set; } : Gender
- 🔧 Password { get; set; } : string

Methods
- 🔒 Customer()
- Customer()
- Customer(string customerName, string address, DateTime dateOfBirth, string emailId, Gender gender, string password)

EliteCustomer
Class
→ Customer

Fields
- 🔒 ownedCoupons : int

Properties
- 🔧 OwnedCoupons { get; set; } : int

Methods
- EliteCustomer(string customerName, string address, DateTime dateOfBirth, string emailId, Gender gender, string password, int ownedCoupons)

PrivilegedCustomer
Class
→ Customer

Fields
- 🔒 cardType : CustomerCardType

Properties
- 🔧 CardType { get; set; } : CustomerCardType

Methods
- PrivilegedCustomer(string customerName, string address, DateTime dateOfBirth, string emailId, Gender gender, string password, CustomerCardType cardType)

RegularCustomer
Class
→ Customer

Fields
- 🔒 discountPercentage : double

Properties
- 🔧 DiscountPercentage { get; set; } : double

Methods
- RegularCustomer(string customerName, string address, DateTime dateOfBirth, string emailId, Gender gender, string password)

CustomerCardType
Enum

- Silver
- Gold
- Platinum

Note: Invoke the base class constructor wherever necessary.

RegularCustomer class

- Parameterized Constructor – RegularCustomer(string, string, DateTime, string, Gender, string)

  o The member variable 'discountPercentage' should be set to 2.

CustomerCardType enum

- It should have the values as 'Silver', 'Gold' and 'Platinum'.

PrivilegedCustomer class

- Parameterized Constructor – PrivilegedCustomer(string, string, DateTime, string, Gender, string, CustomerCardType)

  o The member variable 'cardType' should be initialized with the appropriate value.

'EliteCustomer' class

- Parameterized Constructor – EliteCustomer(string, string, DateTime, string, Gender, string, int)

  o The member variable 'ownedCoupons' should be initialized with the appropriate value.

Properties to be validated

Class	Property	Validation
RegularCustomer	DiscountPercentage	Should be greater than 0
EliteCustomer	OwnedCoupons	Should be greater than 0