Abstraction with YouTube Videos

Video

_tittle : string _author : string _length : int

_comments : List<Comment>

Video(title: string, author: string, length: int)

AddComment : void GetNumComments : int

GetComments : List<Comment>

Comment

_name : string

_text : string

Comment(name : string, text : string)

GetComment : String

Encapsulation with Online Ordering

Product

_name : string _ld : string

_price : double _quantity : int

Product(name : string, id : string, price : double, quantity : int

GetName : string
GetProductId : string
GetTotalCost : int

Address

_streetAddress : string

_city : string

_stateOrProvince : string

_country : string

Address(street: string, city: string, stateProv: string, country: string)

IsAddressUSA: bool

DisplayStreetAddress: string-with newline

Customer

_name : string

_address : Address

Customer(name: string, address: Address)

GetName : string

GetAddress: string

IsCustomerUSA: bool

Order

_products : List<Product>

_customer : Customer

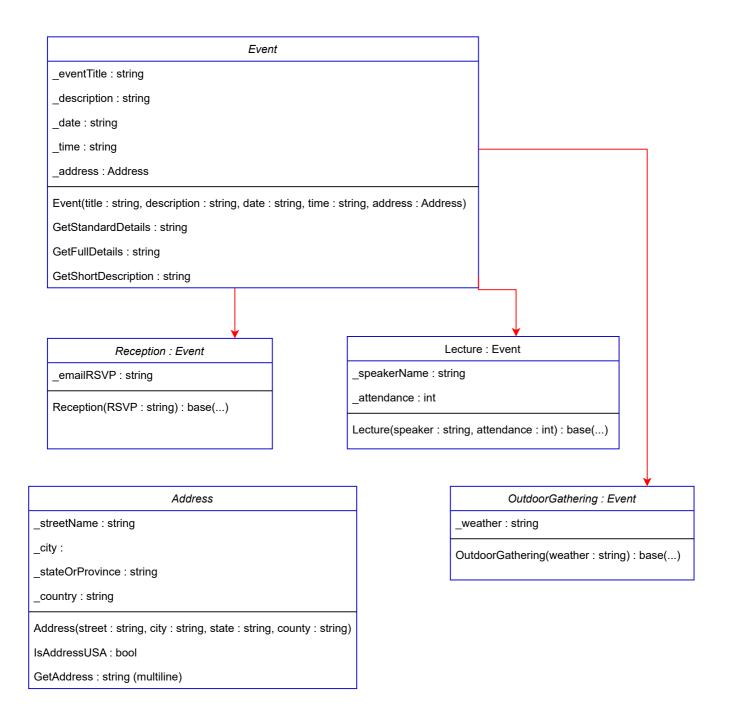
Order()

CalcTotalPrice : int GetTotalPrice : int

DisplayPackingLabel: string

DisplayShippingLabel: string

Inheritance with Event Planning



Polymorphism with Exercise Tracking

Activity _date : string minutes : double Activity(date : string, minute : int) Getters and Setters() GetDistance : abstract double GetSpeed: abstract double GetPace : abstract double GetSummary: string Cycling: Activity Swimming: Activity _speed : double _laps : int Cycling(date: string, minutes: int, speed: double) Swimming(date : string, minutes : int, laps : int) GetDistance : override double GetDistance : override double GetSpeed: override double GetSpeed : override double GetPace : override double GetPace : override double Running: Activity distance : double Running(date : string, minutes : int, distance : double) GetDistance : override double GetDistance : override double

GetSpeed : override double
GetPace : override double