Abstraction with Youtube Videos

Video

_title : string _author : string _length : int

_comments : List<Comment>

Video(title, author, length) Video(title, author, length,

comments)

AddComment(comment) : void NumberOfComments() : int

DisplayInfo(): void

Comment

_name : string _text : string

Comment(name, text)

DisplayComment(): void

Encapsulation with Online Ordering

The word home = usa

Address

_street:string _city:string _state:string _country:string _home:string

_homeStates : List<string>

Address(street, city, state, country)
SetHome(countryName : string) : void
SetHomeStates(states : List<string>) : void

InHome(): bool GetAddress(): string

Customer

_name : string _address : Address

Customer(name, address)
LeaveInHome(): bool
DisplayCustomerInfo(): void

Product

_name : string _productld : int _price : double _quantity : int

Product(name, productld, price)

SetQuantity(quantity: int) : void CalculateCost() : double DisplayProductInfo() : void

Order

_customer : Customer _products : List<Product> _homeShippingCost : double _nonHomeShippingCost : double

Order(customer, product)
Order(customer, products)

 $SetHomeShippingCost(price:double): void\\ SetNonHomeShippingCost(price:double): void\\$

AddProduct(product : Product) : void CalculateTotalCost() : double DisplayPackingLabel() : void DisplayShippingLabel() : void

Inheritance with Event Planning

Event _type:string _title : string description: string **Address** _date : string _street:string _time: string _city:string address: Address state: string Event(title, description, date, time, _country: string address) Address(street, city, state, country) DisplayStandardDetails(): void DisplayAddress(): string DisplayShortDescription(): void LectureEvent ReceptionEvent **OutdoorEvent** _speaker : string email: string weatherForecast: string _capacity:int ReceptionEvent(title, description, date, OutdoorEvent(title, description, date, time, address, email) time, address, weatherForecast) LectureEvent(title, description, date, time, address, speaker, capcity) DisplayFullDetails(): void DisplayFullDetails(): void DisplayFullDetails(): void

Polymorphism with Excercise Tracking

