Foundation Program Design

Abstraction

Class Design

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| Class | Video |

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| Attributes | \_title:string |

| | \_author:string |

| | \_length:int |

| | \_comments: List |

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

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| Methods | AddComment():void |

| | GetNumberofComments():string |

| | DisplayVideoDetails(): void |

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| Class | Comment |

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| Attributes | \_commentor:string |

| | \_text:string |

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| Constructors | Comment(commentor:string,text:string) |

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| Methods | DisplayComment(): void |

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Encapsulation

Class Design

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| Class | Product |

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| Attributes | \_name:string |

| | \_productID:string |

| | \_price:float |

| | \_quantity: int |

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| Constructors | Produc(name:string, |

| | producID:string,price:decimal, |

| | quantity:int |

| | ) |

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| Methods | GetTotalCost():void |

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| Class | Address |

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| Attributes | \_street:string |

| | \_city:string |

| | \_province:string |

| | \_country:string |

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| Constructors | Address(street:string, |

| | city:string,province:string, |

| | country:string |

| | ) |

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| Methods | IsUSA():bool |

| | GetFullAddress():string |

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| Class | Customer |

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| Attributes | \_name:string |

| | \_address:Address |

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| Constructors | Customer(name:string,address:Address) |

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| Methods | LiveInUSA(): bool |

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| Class | Order |

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| Attributes | \_products:List<Product> |

| | \_customer:Customer |

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| Constructors | Order(customer:Customer) |

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| Methods | GetTotalCost():float |

| | GetPackingSlip():string |

| | GetShippingLabel():string |

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