

Abstraction with YouTube Videos

Video
<div><div>_title : string</div><div>_author : string</div><div>_length : int</div><div>_comments : List&lt;Comment&gt;</div></div>
<div>Video(title : string, author : string, length : int)</div> <div>AddComment : void</div> <div>GetNumComments : int</div> <div>GetComments : List&lt;Comment&gt;</div>

Comment
<div><div>_name : string</div><div>_text : string</div></div>
<div>Comment(name : string, text : string)</div> <div>GetComment : String</div>

Encapsulation with Online Ordering

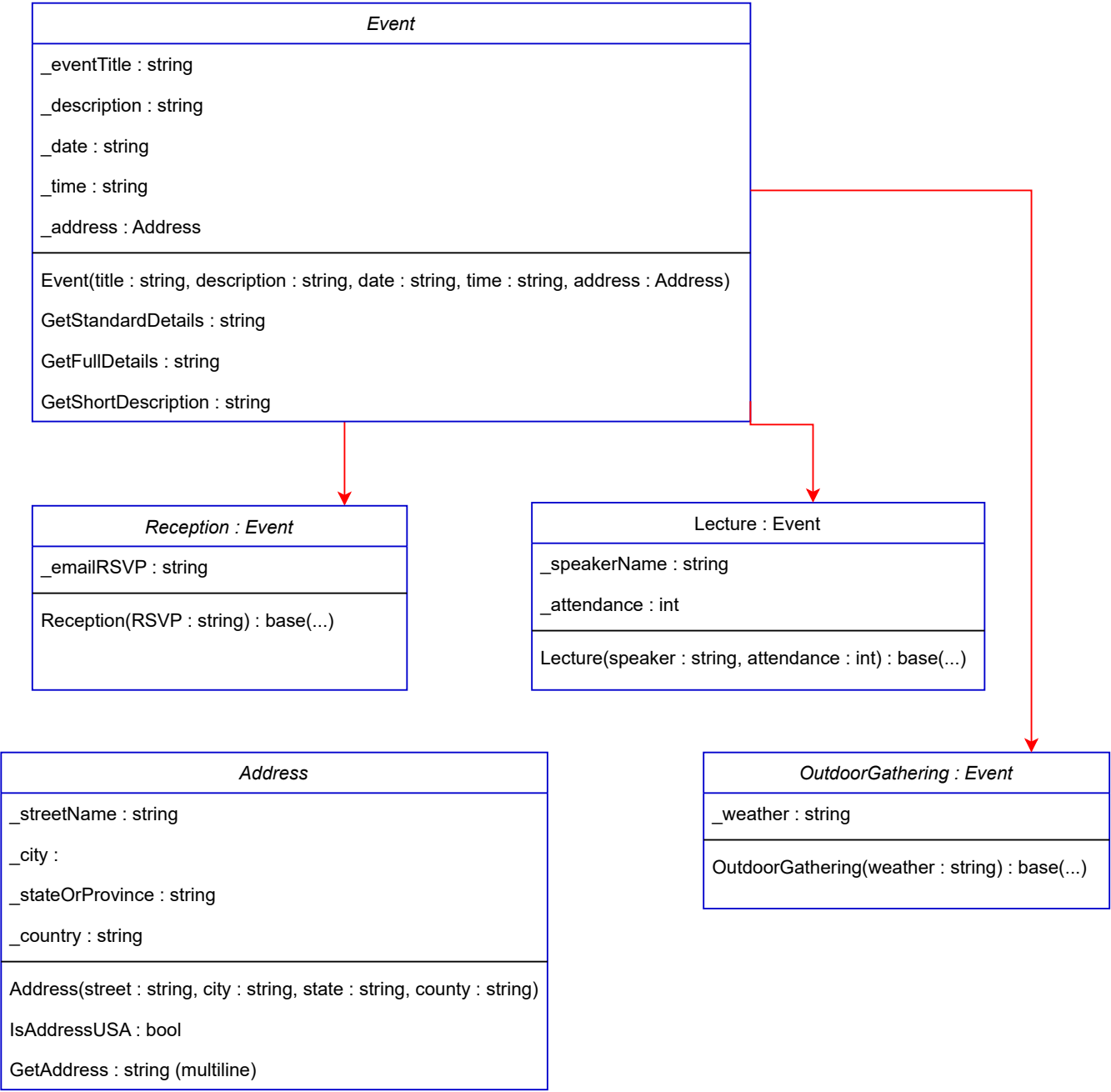
Product
<div><div>_name : string</div><div>_id : string</div><div>_price : double</div><div>_quantity : int</div></div>
<div>Product(name : string, id : string, price : double, quantity : int)</div> <div>GetName : string</div> <div>GetProductId : string</div> <div>GetTotalCost : int</div>

Address
<div><div>_streetAddress : string</div><div>_city : string</div><div>_stateOrProvince : string</div><div>_country : string</div></div>
<div>Address(street : string, city : string, stateProv : string, country : string)</div> <div>IsAddressUSA : bool</div> <div>DisplayStreetAddress : string-with newline</div>

Customer
<div><div>_name : string</div><div>_address : Address</div></div>
<div>Customer(name : string, address : Address)</div> <div>GetName : string</div> <div>GetAddress : string</div> <div>IsCustomerUSA : bool</div>

Order
<div><div>_products : List&lt;Product&gt;</div><div>_customer : Customer</div></div>
<div>Order()</div> <div>CalcTotalPrice : int</div> <div>GetTotalPrice : int</div> <div>DisplayPackingLabel : string</div> <div>DisplayShippingLabel : string</div>

Inheritance with Event Planning



## Polymorphism with Exercise Tracking

