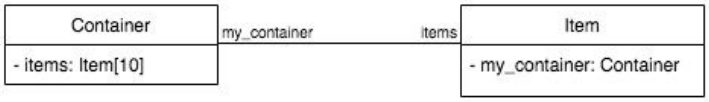
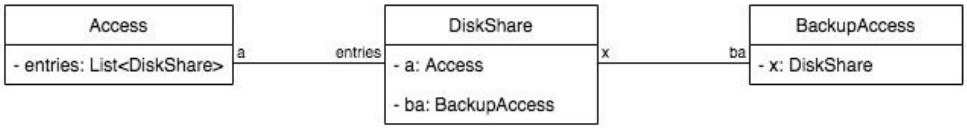
Homework #1
Michael Utt and Forest Edwards
ESOF 322

Part A

1



2



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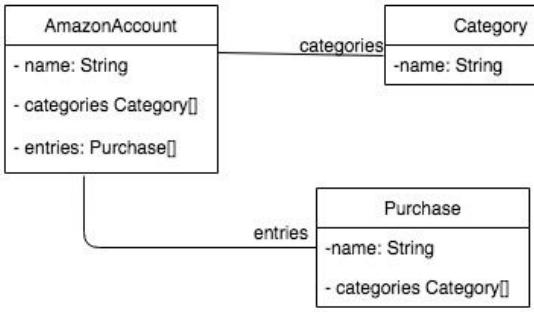

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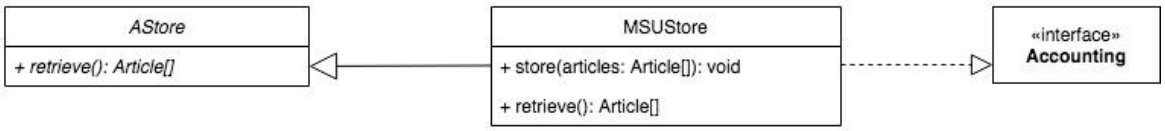

Part B

```
public class Company {
        public string name;
        public Address headquarters;
        public Truck[] truck;
        public Car[] car;
        public Motorbike[] motorbike;
        public VehicleRentalService[] service;
        public Customer[] customer;
        public Employee[] employee;
```

```
}
public interface IRentable {
        …
}
public abstract class Vehicle implements IRentable {
        ...
}
public class Truck extends Vehicle {
        public UnlimitedNatural weight;
        public UnlimitedNatural power;
        public String manufacturer;
        public String regNo;
}
public class Car extends Vehicle {
        public CarKind kind;
        public UnlimitedNatural noSeats;
        public UnlimitedNatural power;
        public String manufacturer;
        public String regNo;
}
public class Motorcycle extends Vehicle {
        public MbKind kind;
        public UnlimitedNatural cylinderCap;
        public UnlimitedNatural power;
        public String manufacturer;
        public String regNo;
}
Public abstract class Service {
        public Customer customer;
}
public class VehicleRentalService extends Service {
        public Vehicle vehicle;
        public void offerCar() { … }
        public void offerMotorbike() { … }
        public void offerTruct() { … }
}
Public abstract class Person {
        Public String name;
        Public String email;
```

```
        Public String address;
}
Public class Address {
        Public String street;
        Public String postalCode;
        Public String city;
}
Public class Employee extends Person {
        ...
}
Public class Customer extends Person {
        Public BankAccount bankAccount;
}
Public class Subcontractor extends Employee, Customer {
        ...
}
Public Class BankAccount {
        Public UnlimitedNatural number;
        Public String depositor;
        Public String bank;
}
```