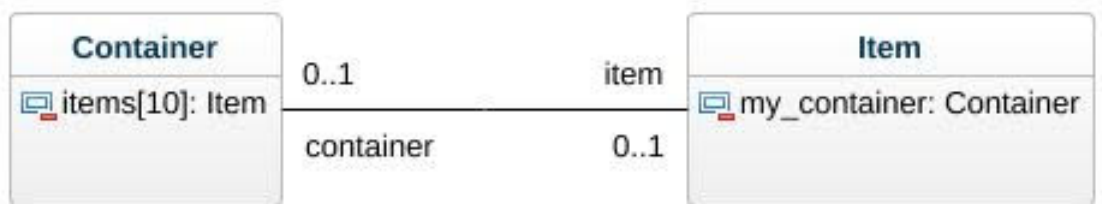


ESOF 322 HW1

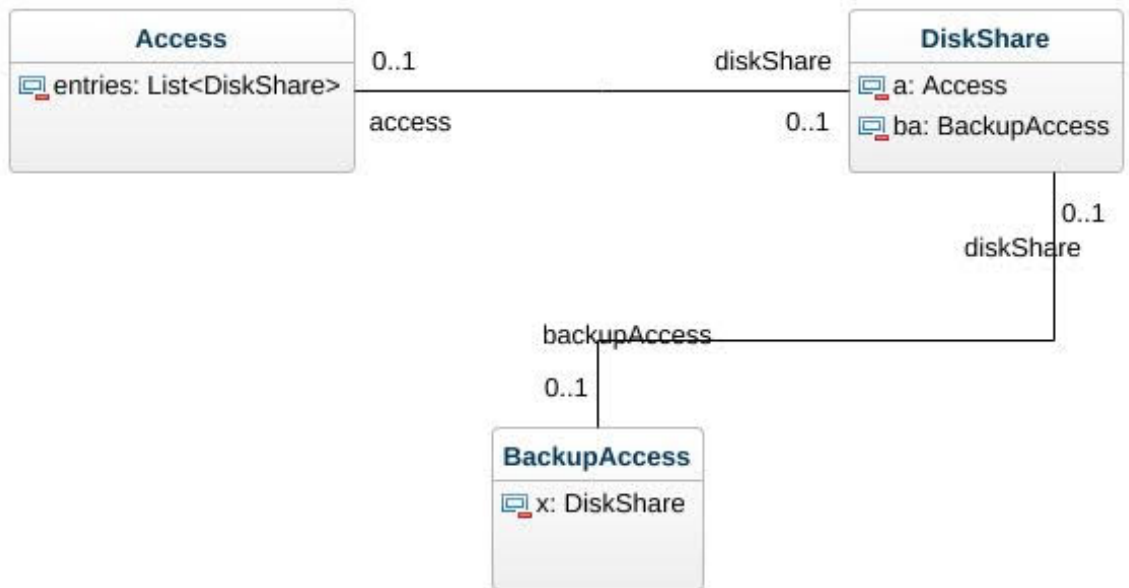
Anna Jinneman
William Roberts

September 12, 2019

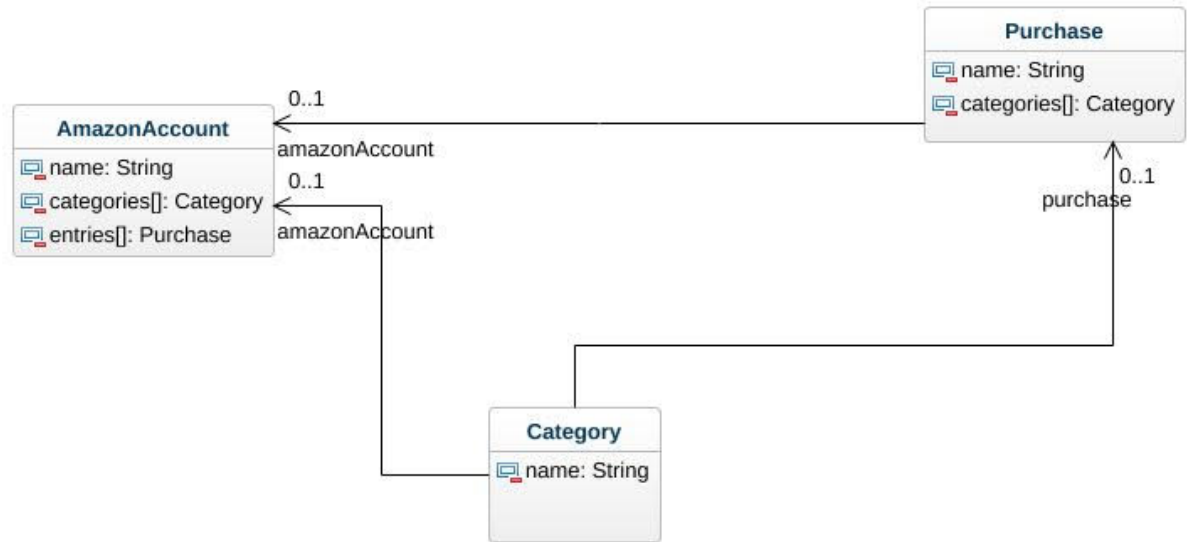
Problem 1



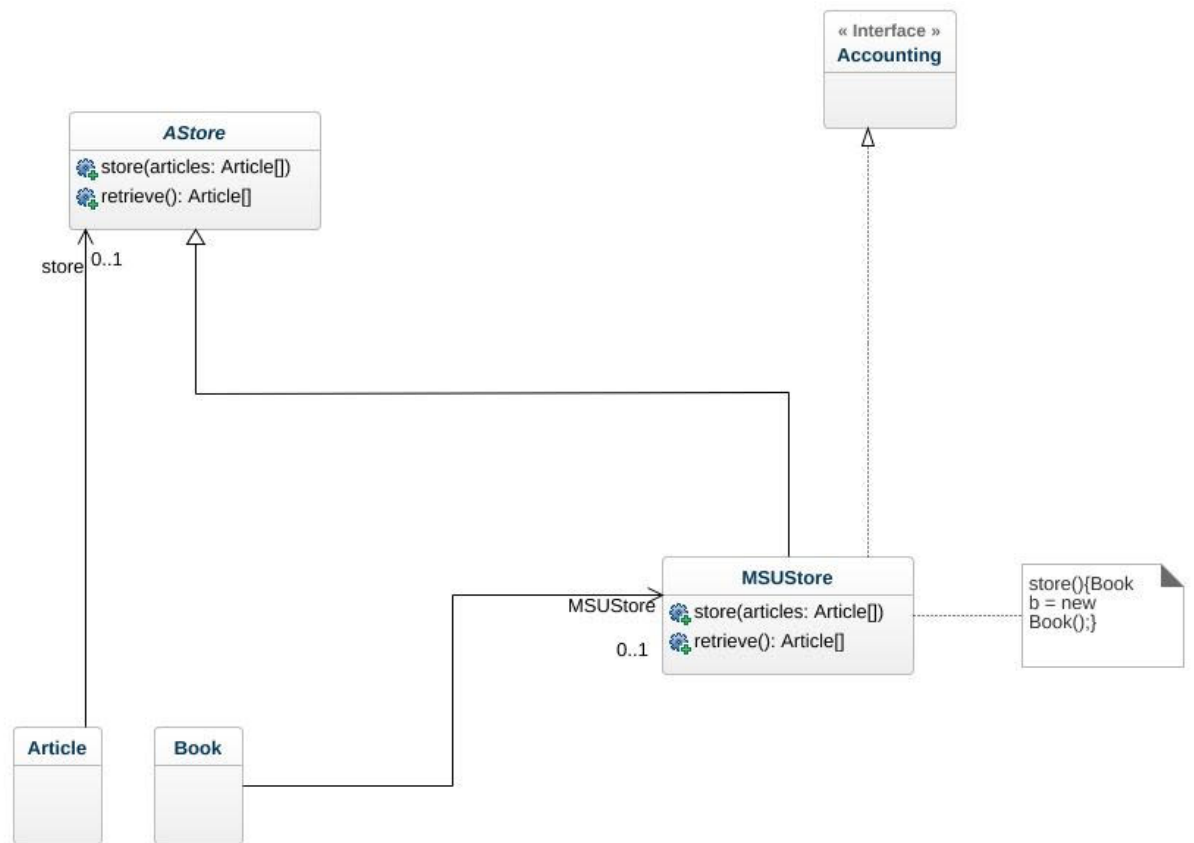
Problem 2



Problem 3



Problem 4



Problem 5

(Picture 1 of 2)

```
public class Company(){
    private Customer customer;
    private Service service;
    private Truck truck;
    private Car car;
    private Motorbike motorbike;
    public String name;
    public Address headquarters;
}

public class Employee extends Person(){
}

public class Person(){
    private Address address;
    public String name;
    public String email;
}

public class Customer extends Person(){
    private BankAccount bankAccount;
}

public class Subcontractor extends Employee and Customer(){
}

public class BankAccount(){
    private final Customer customer;
    public UnlimitedNatural number;
    public String depositor;
    public String bank;
}

public class Address(){
    public String street;
    public String postalCode;
    public String city;
}

public class Service(){
    public Customer customer;
}
```

Problem 5

(Picture 2 of 2)

```
public class VehicleRentalService extends Service() {
    private final Company company;
    public Vehicle vehicle;
    public void offerCar() {
    }
    public void offerMotorbike() {
    }
    public void offerTruck() {
    }
}

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 Motorbike extends Vehicle() {
    public MbKind kind;
    public UnlimitedNatural cylinderCap;
    public UnlimitedNatural power;
    public String manufacturer;
    public String regNo;
}

public class Vehicle implements Rentable {
}

public interface Rentable {
    public void rent() {...}
}
```