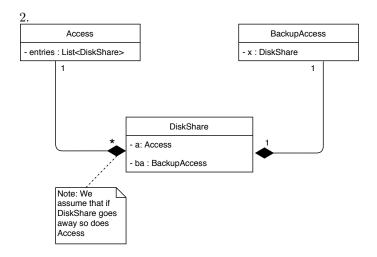
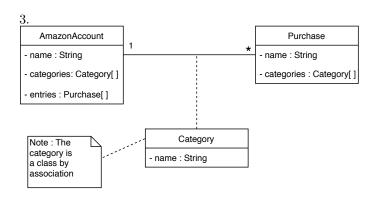
ESOF-HW1

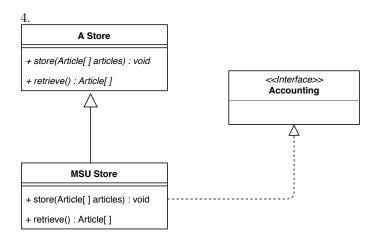
Joe Akers Brad McCoy September 12, 2019

1 Part A









2 Part B

```
public class Company{
//attributes
  public String[1] name;
  public Address[1] headquarters;
  public List<Employee> employee;
  public List<Customer> customer;
  public VehicleRentalService service;
  public List<MotorBike> mortorbike;
  public List<Car> car;
  public List<Truck> truck;
}
```

```
// Attributes
  public String name;
  public String email;
  public Address address;
public class Employee extends Person{
public class Customer extends Person{
//Atributes
  public BankAccount bankAccount;
public class Subcontractor extends Employee{
// Attributes
  public Customer subcontractorCustomer;
//constructor
  public Subcontractor(...)
            super(...);
            this.subcontractorCustomer = new Customer(...);
            // this will allow access to the methods and attributes of a
            // Customer without having to having multiple inheritance.
}
public class Address{
// Attributes
  public String street;
  public String postalCode;
  public String city;
public class BankAccount{
// Attributes
  public UnlimitedNatural number;
  public String depositor;
  public String bank;
public abstract class Service{
// Attributes
  public Customer customer;
```

```
public class VehicleRentalService extends Service{
// Attributes
  public Vehicle vehicle;
//methods
  public void offerCar(){
  public void offerMotorbike(){
  public void offerTruck(){
public abstract class Vehicle implements IRentable{
// Attributes
  public UnlimitedNatural power;
  public String manufacturer;
  public String regNo;
public class Truck extends Vehicle{
// Attributes
  public UnlimitedNatural weight;
public class Car extends Vehicle{
// Attributes
  public CarKind kind;
  public UnlimitedNatural noSeats;
public class Motorbike extends Vehicle{
// Attributes
  public MbKind kind;
  public UnlimitedNatural cylinderCap;
public interface IRentable{
// Methods
  public rent();
```