- a. Flexible way to wire objects together.
- b. Flexibility. Easy to change the wiring of objects

c.

```
public class AccountService {
  private IAccountDAO accountDAO;

public void setAccountDAO(IAccountDAO accountDAO) {
    this.accountDAO = accountDAO;
}

public void deposit(long accountNumber, double amount) {
    Account account=accountDAO.loadAccount(accountNumber);
    account.deposit(amount);
    accountDAO.saveAccount(account);
}
```

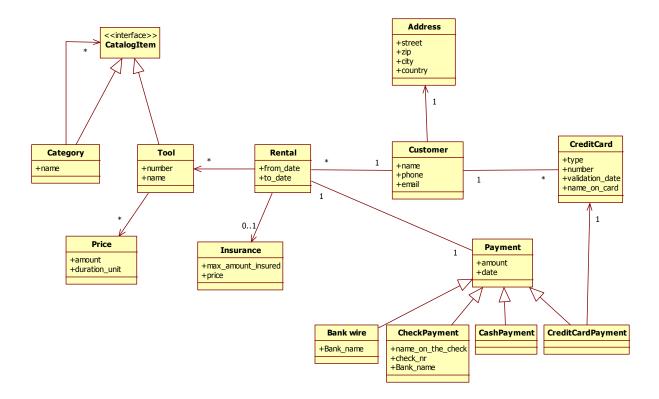
accountDAO is injected by the Spring framework

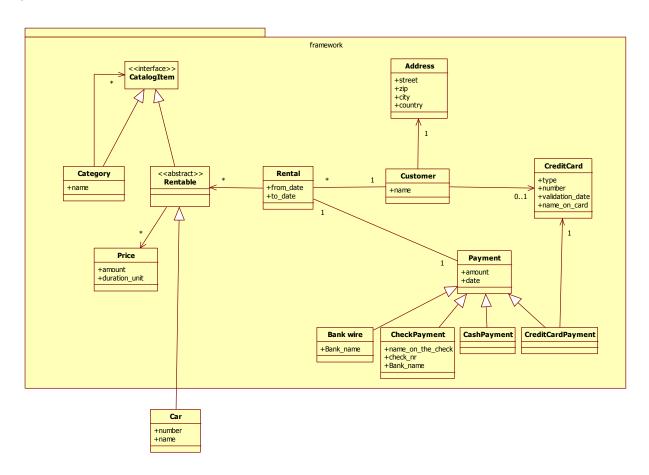
- a. Write crosscutting concerns at one place and use them at different places in your application at runtime
- b. SOC: Separate functionality at design time, but weave them together at runtime

DRY: Don't repeat yourself.

c.

```
public class AccountService implements IAccountService (
  Collection<Account> accountList = new ArrayList();
                                                                            The business method
  public void addAccount(String accountNumber, Customer customer) (
   Account account = new Account(accountNumber, customer);
   accountList.add(account);
   System.out.println("in execution of method addAccount");
                                The advice class
@Aspect
                                                                       The before advice method
public class TraceAdvice {
  @Before("execution(* accountpackage.AccountService.*(..))")
 public void tracebeforemethod(JoinPoint joinpoint) {
     System.out.println("before execution of method "+joinpoint.getSignature().getName());
  @After("execution(* accountpackage.AccountService.*(..))")
 public void traceaftermethod(JoinPoint joinpoint) {
     System.out.println("after execution of method "+joinpoint.getSignature().getName());
                                                                        The after advice method
```





Question 5

