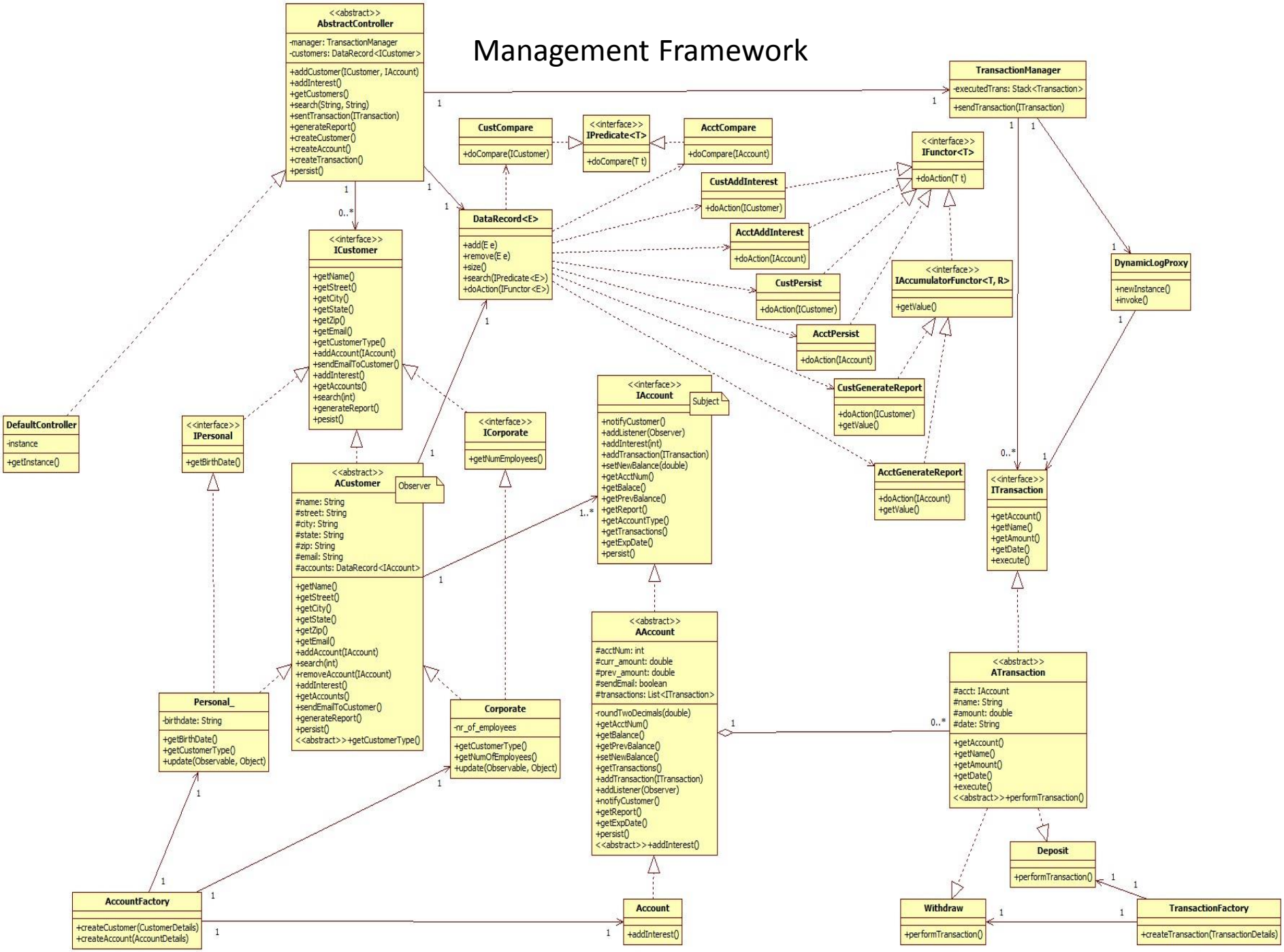
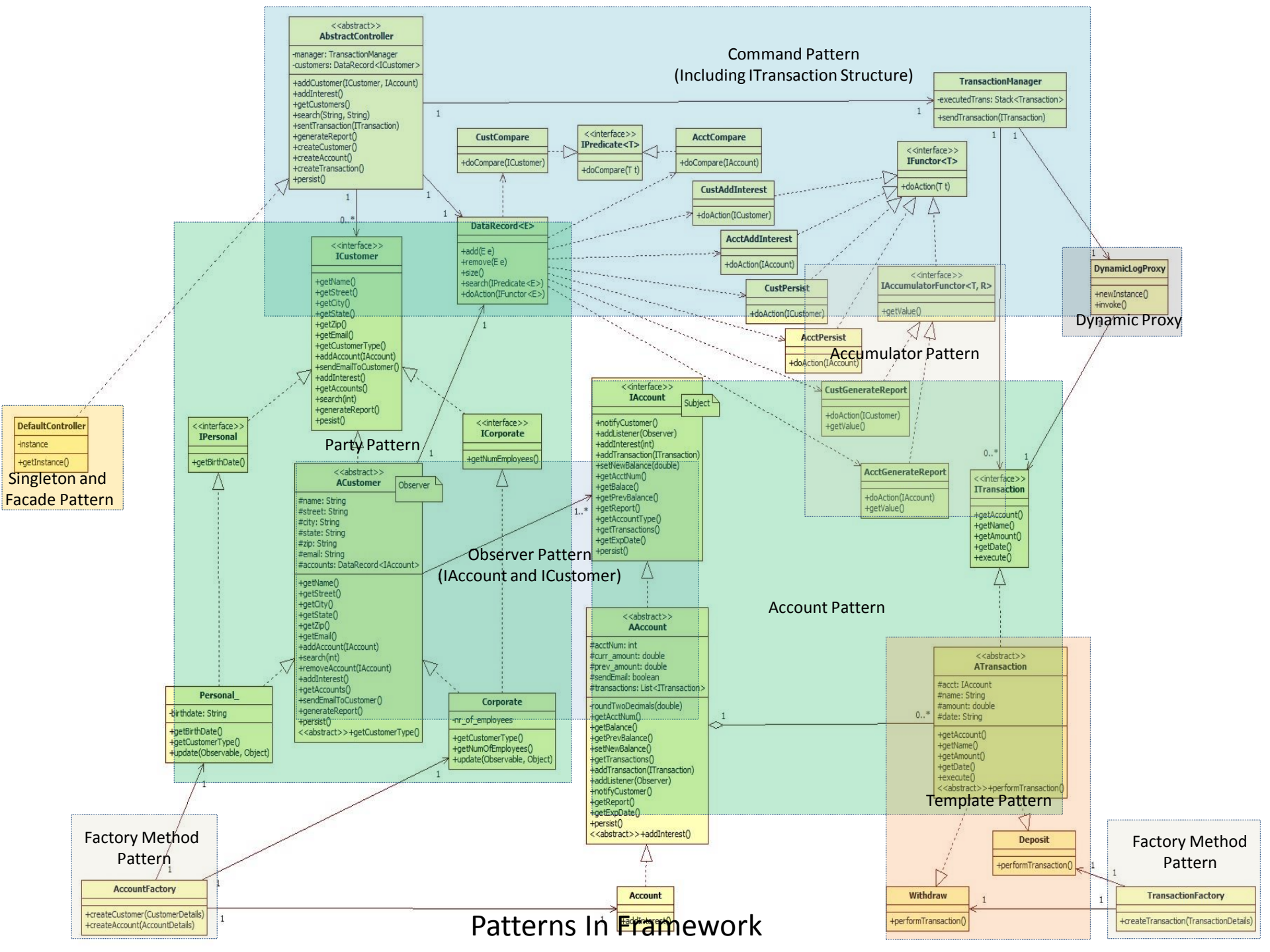
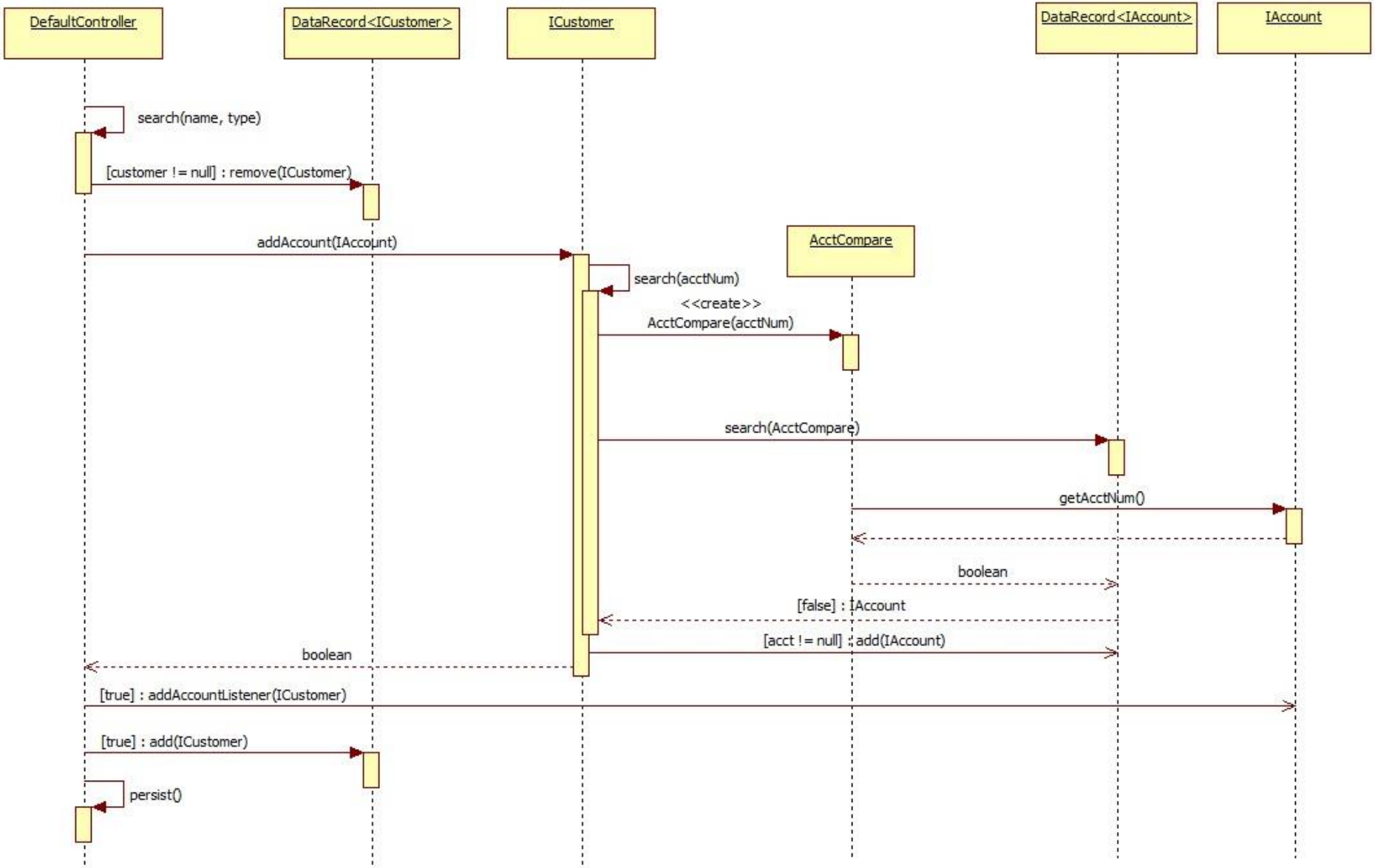
Management Framework

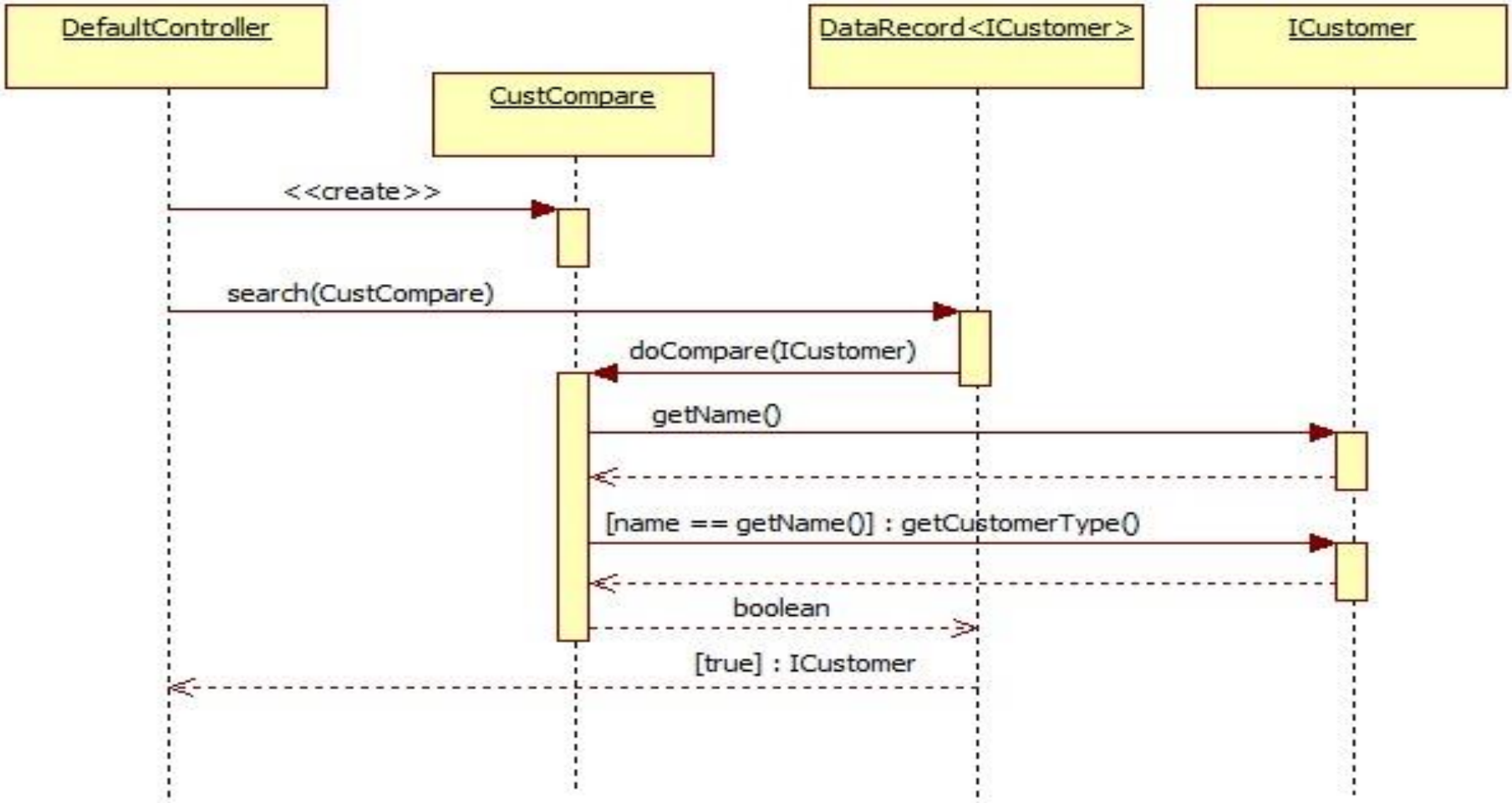



Command Pattern
(Including ITransaction Structure)
Party Pattern
Accumulator Pattern
Dynamic Proxy
Singleton and
Facade Pattern
Observer Pattern
(IAccount and ICustomer)
Account Pattern
Template Pattern
Factory Method
Pattern
Factory Method
Pattern
Patterns In Framework
AbstractController
-manager: TransactionManager
-customers: DataRecord<ICustomer>
+addCustomer(ICustomer, IAccount)
+addInterest()
+getCustomers()
+search(String, String)
+sentTransaction(ITransaction)
+generateReport()
+createCustomer()
+createAccount()
+createTransaction()
+persist()
TransactionManager
-executedTrans: Stack<Transaction>
+sendTransaction(ITransaction)
CustCompare
+doCompare(ICustomer)
IPredicate<T>
+doCompare(T t)
AcctCompare
+doCompare(IAccount)
IFunctor<T>
+doAction(T t)
CustAddInterest
+doAction(ICustomer)
AcctAddInterest
+doAction(IAccount)
DataRecord<E>
+add(E e)
+remove(E e)
+size()
+search(IPredicate<E>)
+doAction(IFunctor<E>)
ICustomer
+getName()
+getStreet()
+getCity()
+getState()
+getZip()
+getEmail()
+getCustomerType()
+addAccount(IAccount)
+sendEmailToCustomer()
+addInterest()
+getAccounts()
+search(int)
+generateReport()
+pesist()
CustPersist
+doAction(ICustomer)
IAccumulatorFunctor<T, R>
+getValue()
DynamicLogProxy
+newInstance()
+invoke()
AcctPersist
+doAction(IAccount)
CustGenerateReport
+doAction(ICustomer)
+getValue()
AcctGenerateReport
+doAction(IAccount)
+getValue()
ITransaction
+getAccount()
+getName()
+getAmount()
+getDate()
+execute()
DefaultController
-instance
+getInstance()
IPersonal
+getBirthDate()
ICorporate
+getNumEmployees()
IAccount
Subject
+notifyCustomer()
+addListener(Observer)
+addInterest(int)
+addTransaction(ITransaction)
+setNewBalance(double)
+getAcctNum()
+getBalace()
+getPrevBalance()
+getReport()
+getAccountType()
+getTransactions()
+getExpDate()
+persist()
ACustomer
Observer
#name: String
#street: String
#city: String
#state: String
#zip: String
#email: String
#accounts: DataRecord<IAccount>
+getName()
+getStreet()
+getCity()
+getState()
+getZip()
+getEmail()
+addAccount(IAccount)
+search(int)
+removeAccount(IAccount)
+addInterest()
+getAccounts()
+sendEmailToCustomer()
+generateReport()
+persist()
<<abstract>>+getCustomerType()
AAccount
#acctNum: int
#curr_amount: double
#prev_amount: double
#sendEmail: boolean
#transactions: List<ITransaction>
-roundTwoDecimals(double)
+getAcctNum()
+getBalance()
+getPrevBalance()
+setNewBalance()
+getTransactions()
+addTransaction(ITransaction)
+addListener(Observer)
+notifyCustomer()
+getReport()
+getExpDate()
+persist()
<<abstract>>+addInterest()
ATransaction
#acct: IAccount
#name: String
#amount: double
#date: String
+getAccount()
+getName()
+getAmount()
+getDate()
+execute()
<<abstract>>+performTransaction()
Personal_
-birthdate: String
+getBirthDate()
+getCustomerType()
+update(Observable, Object)
Corporate
-nr_of_employees
+getCustomerType()
+getNumOfEmployees()
+update(Observable, Object)
Deposit
+performTransaction()
Withdraw
+performTransaction()
AccountFactory
+createCustomer(CustomerDetails)
+createAccount(AccountDetails)
Account
TransactionFactory
+createTransaction(TransactionDetails)

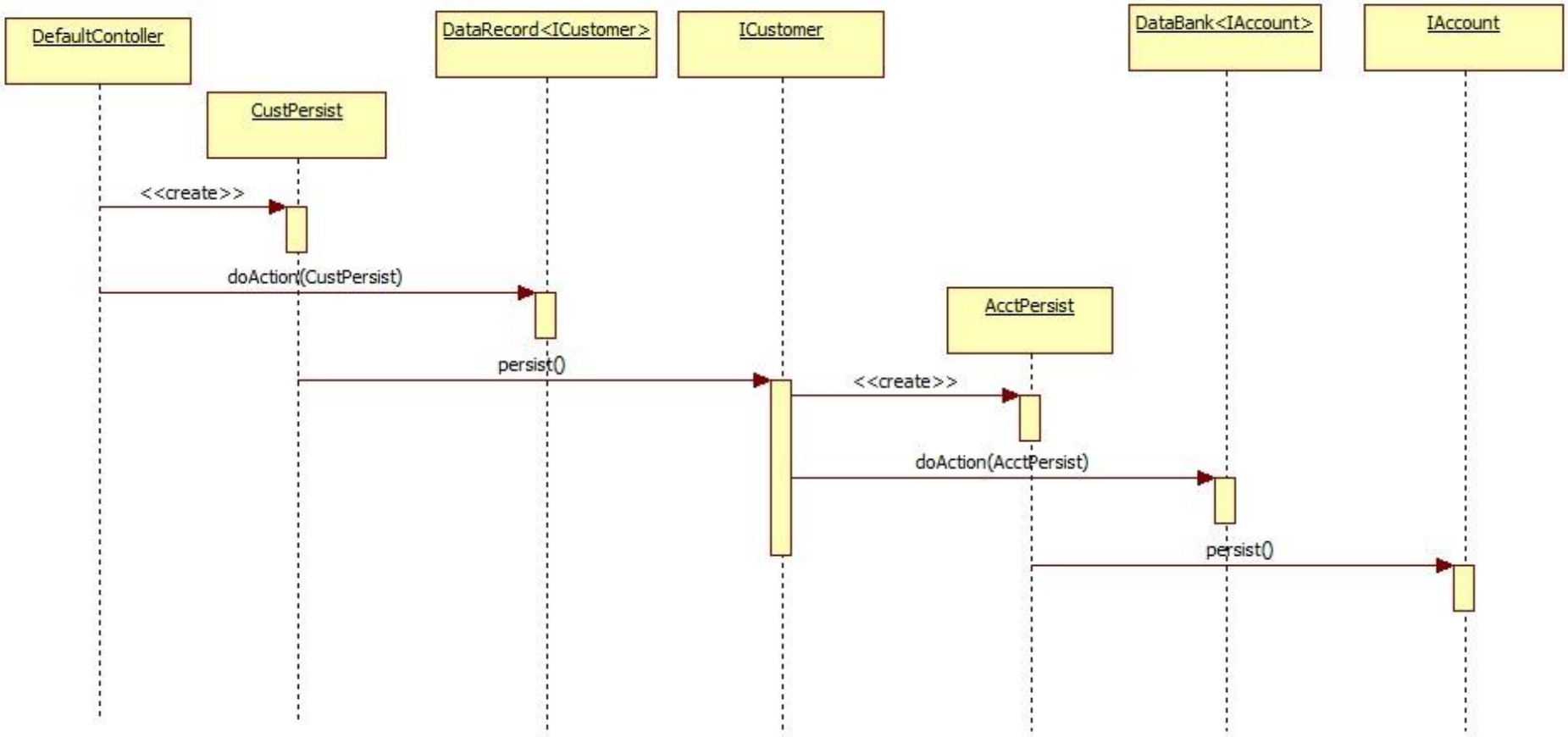
Adding Customer Event



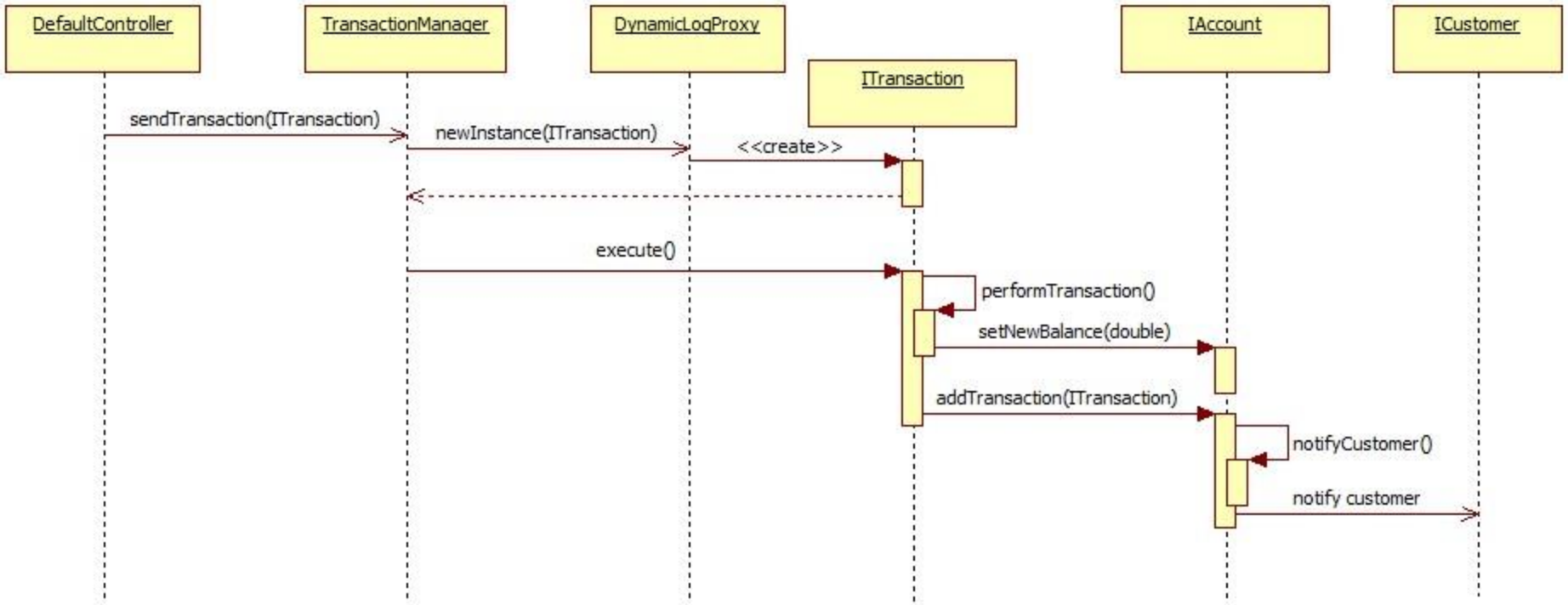
Search Customer Event



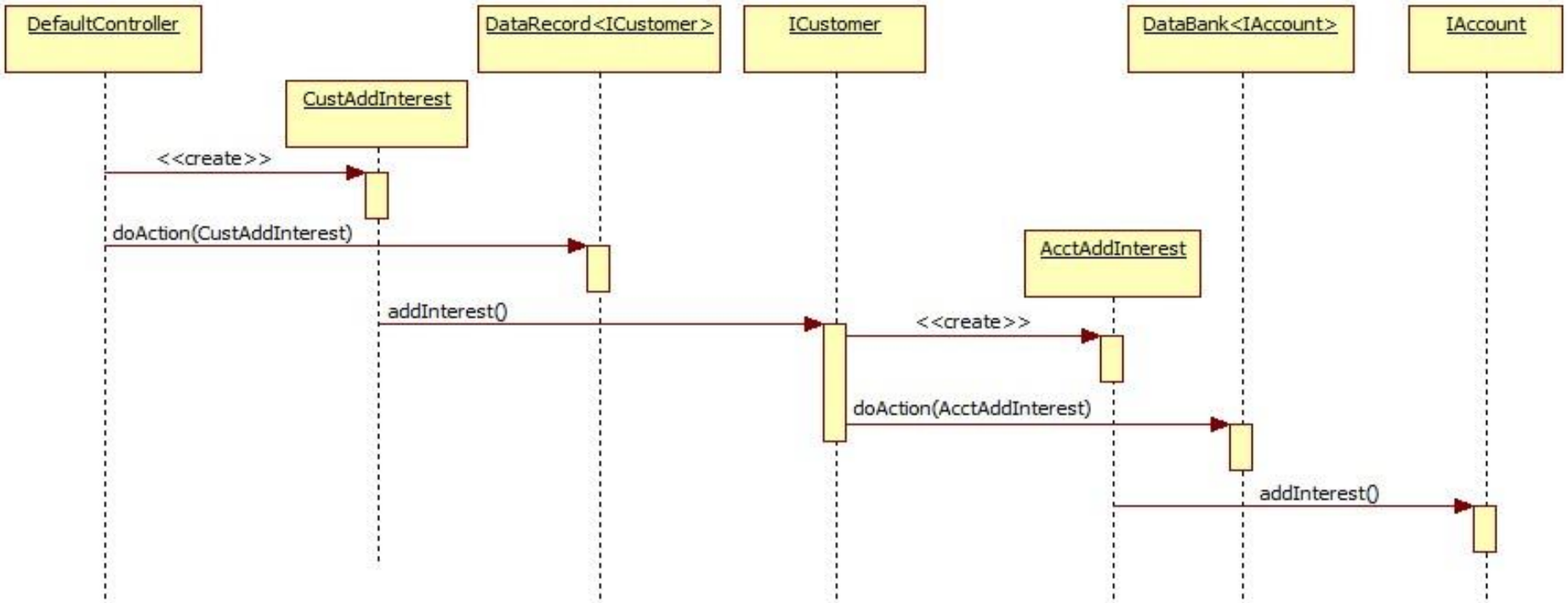
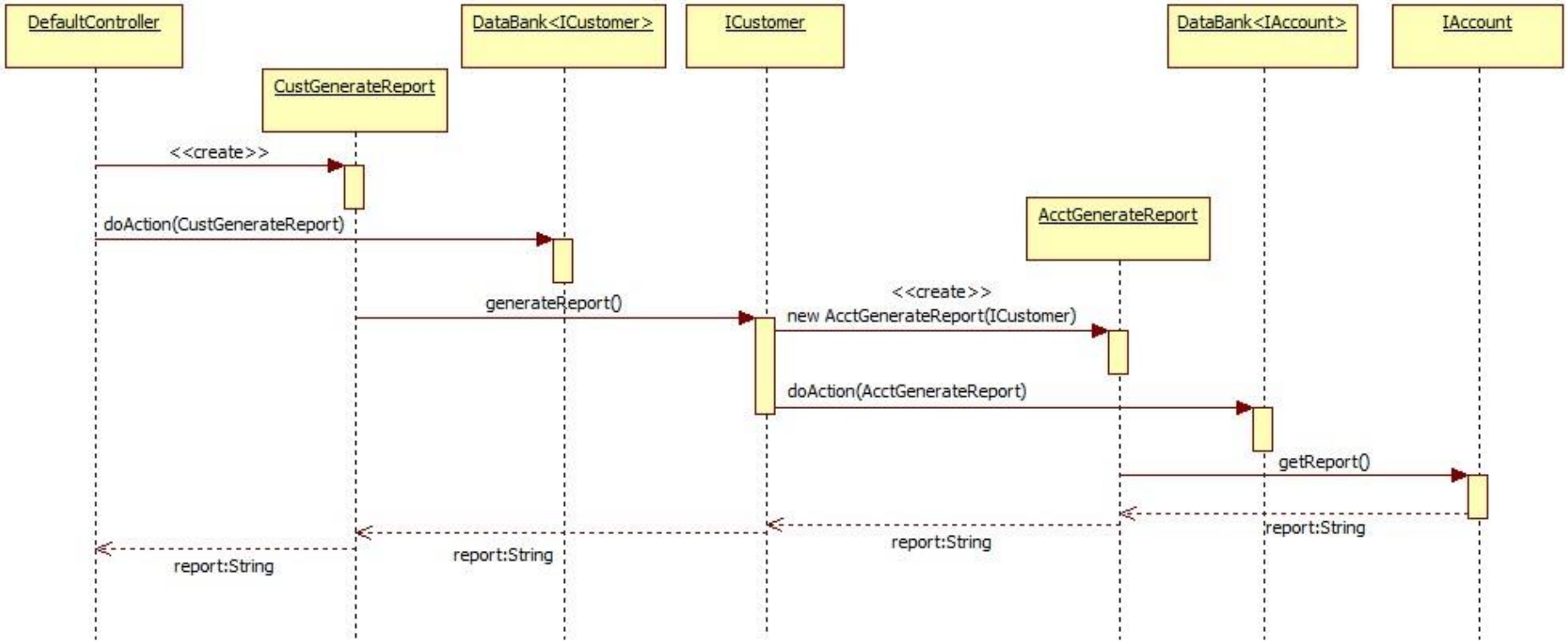
Persistence Event



Sending Transaction Event



Adding Interest Event



Generating Report Event