**accounting:**

1-in entity \*->card relationship entityType Must be person/organization

2-bank defines fee for each card

3-account balance needs to be updated by database trigger each time new record inserted

4-invoice payee/payer entity need to be of entityType{person/org}

5-in entity/Card relation entity must be of entityType {person/org}

**Invoice and Services >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>**

1-all the services attached to invboice need to be in the same currency as invoice

2-all services added to the invoice need to the follow invoice\_payeeID =service\_giverID

***create Services***

entities including in service need to be of entityType{}

***create invoice***

invoiceAction

invoiceActionTransaction

***create service[s] and assign to invoice***

***payInvoice***

invoicePayment

invoiceAction

invoiceActionTransaction

**CARDS and BANKING >>>>>>>>>>>>>>>>>>>>>>>>>>>>>**

***create card***

***create bank***

***assign card to the bank***

***create fee and assign to card***

**Test Scenarios >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>**

**(1)**

create invoice

pay for invoice by CARDS[master/visa/debit] AND INTERNAL

**reset scenario**

reset lookup tables and set default entities to work with

**lookup types:**

glType

catType

cardtype

ccCardType

paymentType

extPaymentType

invoiceStat

currencyType

entityType

contectType

officeType

userType

sysUserType

**setup and create Default for testing**

**structure**

1-class implementation for each entity needs its

(1)inheritance Distinctor,

(2)properties [like DB table definition] and reference [ID or object reference] to other related objects

Note1: references can be fetched using Methods instead of saving for a long time

Note2:these references can be in form of list<EF objects> or data table using SP

(3)constructor(optional) for each inheritance level.

2-lower db connections can be EF or SP and each time need to reload the object

3-non-related sets of data can be fetched from static Methods

4-obviously there is a need for mapping between server-side class definition and data fetched from database using SP or EF

5-any Method call may change stat of object including new values for properties

concept : server side encapsulation is a shell