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use Case diagram (Choose system log edit Product Products Administrator Publish Catalog Search for Products. select products) Catalog User edit quantity Supply credit Card inf. Shopping Cart

Concrete Concrete

9. Use lose 2

Catalog 22 include 77 Product. add Product. edit/publish Shopping Cart quantitis credity

Concret

concrete

State diagram import Catalog / Choose Product. under edit Finish editing / Publish. Visible. Product Groumed. buy more / make invisible. neake avaliable. Invisible. End State should be gram "invisible" as well Mohand Said

Public Class Product Private State state; Private PL Price Level; Public State getState () } PHYME State Under Edit inducation Franche states wish to white. Public PL getPriceLevel () } Fulle vald starting I I end class.

concrete pricets

Public abstract Class State 5

Public static final int FDIT = 0;

Public static final int PUBLISH = 1;

Public static final int OUT_OF_STOK = 2;

Public Static final int SUPPLIED = 3;

Private Static Under Edit under Edit; Private static Visible visible; Private Static Unvisible unvisible;

Public Void start () }

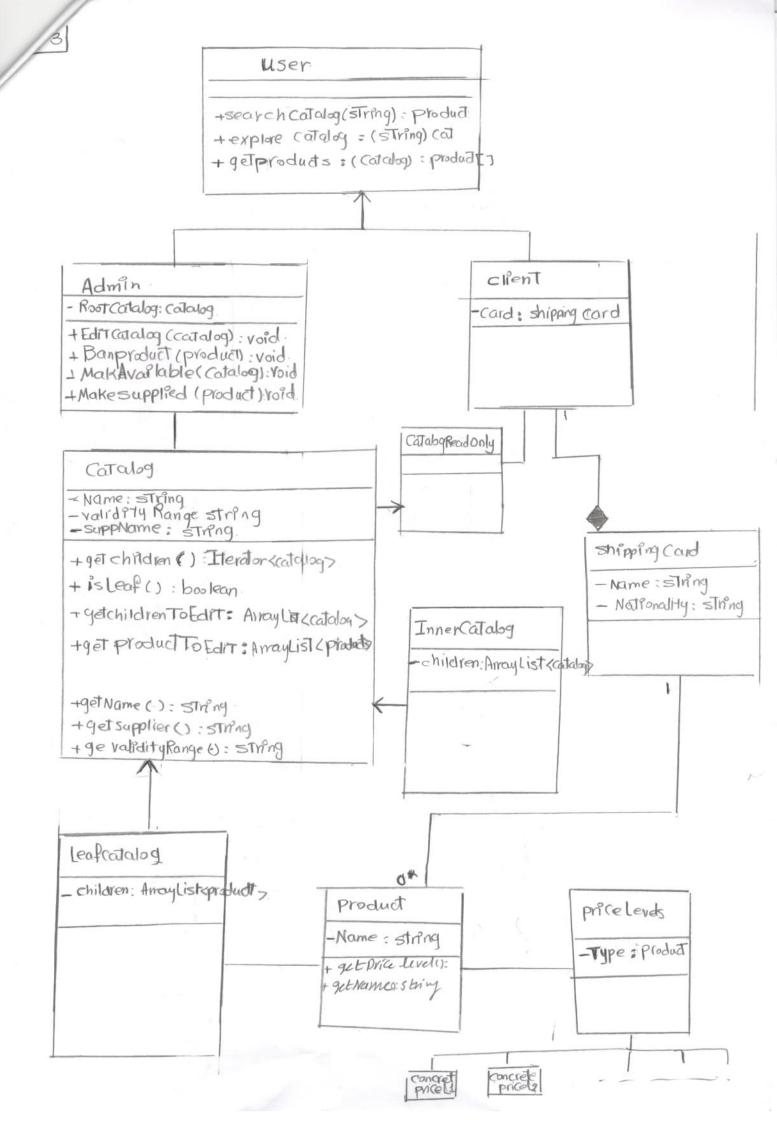
Public State Process Event (interent) }

Prodecte State next state (int event) }

3 Hend elass.

concrete concrete pricels

Public Class Under Edit extend State ? Public State next State (int event) } HEdiT Corolog (cogration) water Hend Class Visible & Unvisible Class. nte Same concrete



```
¿ Interface user
   public Product ScarchCatalog (Stri-frame);
   public product [] get products ("Catalog catalog");
   public cuta loge II explore Cataly (String name);
 public Class Admin extends user ?
Public adalog Root Catalog;
You Edit Catalog (Catalog) {
roid Ban Product (Product product) {
Public
Public 1
 Void Make Available ( Product product)
 public
  roid Make supplied (product product) {
 public product search (abole (sting, Name) {
             Interfale method,
```

public 1 product[] Load (producti) is play senan sr)

Sr. Add():

ic class dient [Shipping Card Card; go public Personal Inc. interface methods implements Catalog Rodowly Dublic Abstract class catalog pretacted string Manne; preketed string validity Rage; prokeled Stry Supplier Name; Public abstract getchildren ();
Public boulean is leaf (); publicalist revalor < product > getpreducts research); public Therater < Catologs> getchildren to Read; public

public 1 product[] Load (producti) splay senan sr)

Sr- Add():

Sublic Interface CatalogRead Only () } & public strif get Name (); Public Eterator & Catalog > get Catalogs 40 Read)

Public Eterator < products get products 16 Read;

Public boolean is leafes; public rola set Net () public class leaf Certalogu extends contalog of throw exception with trying to access Children catalogus, other-wise returns the iterator to ver a the Arraylist to mode pur admin public set Doit Price Clark no) 7--7 Public class Tune Catalog expends cutalog & throw " " " " " products, " 12 1, h 4 4

public 1 product[7 Load (productivisplay senan sr)

dass shipping card ? private String Warne; private String Nationaling; private string shipping No; public string get Name E) [--]; public " get Nat () {-- }. public " getshippigNo() {-- }; public word set Name (string Nm) 9-- ?; public roid set Nat (string Nat15-7satshippiy No cshing No15-- 3: public roid public Inter Face Pricelevel 9 Public schoolithrice Cint no) ?--? public getPrice (int numbrits [-- 7.

plus freducts () a. Unia

Alun products (7

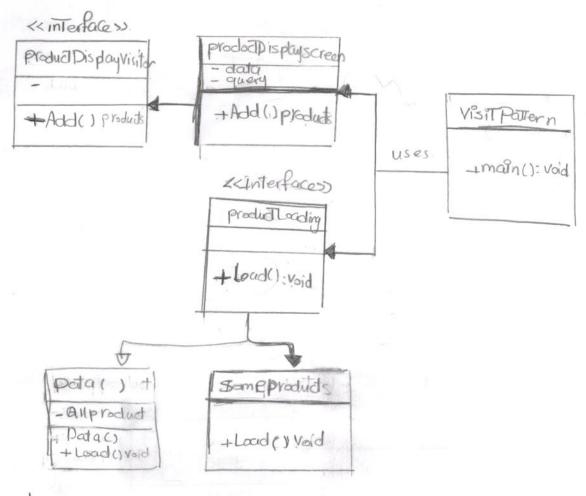
provide all partials.

His Date 17

public 1 product[7 Load (producti) isplay senan sr)

Sr. Add():

A Visitor design pattern



product Display screen()?

private data

private query

public Products [] Add()?

return products[7.

potal)?

private all poduts[?:

public Data()?

public 1 product[] Load (producti) is play seron sr)

Sr- Add():

class Some products:) ?

public load (product Pisplaysonais)
3
Sr. Add():

3

- singleton.
- singletonInstanCe.

</ constructors)
- singleton()
+getInstace()

Single Ton

