g+1  4     | More    Next Blog»                              Create Blog   Sign In

*Inspiring thought*
*Inspirational Work*

thought-works.blogspot.in

| Home |

Friday, December 27, 2013

# OO design for a coffee shop



Let us do the design for a coffee shop today. Let me start with the description of how the coffee shop we want to design works first. There are three different actors in our scenario and i have listed the different actions they do also below

* Customer
  - Pays the cash to the cashier and places his order, get a token number back
  - Waits for the intimation that order for his token is ready
  - Upon intimation/notification he collects the coffee and enjoys his drink
  ( Assumption:  Customer waits till the coffee is done, he wont timeout and cancel the order. Customer always likes the drink served. Exceptions like he not liking his coffee, he getting wrong coffee are not considered to keep the design simple.)

* Cashier
  - Takes an order and payment from the customer
  - Upon payment, creates an order and places it into the order queue
  - Intimates the customer that he has to wait for his token and gives him his token
  ( Assumption: Token returned to the customer is the order id. Order queue is unlimited. With a simple modification, we can design for a limited queue size)

* Barista
 - Gets the next order from the queue
 - Prepares the coffee
 - Places the coffee in the completed order queue
 - Places a notification that order for token is ready

## Blog Archive

▼ 2013 (4)
  ▼ December (4)
   Object oriented design for a library to store book...
   Object oriented design for a Restaurant
   OO design for a coffee shop
   Distributed Transactions and 2 Phase commit protoc...
► 2012 (8)

## Featured Posts
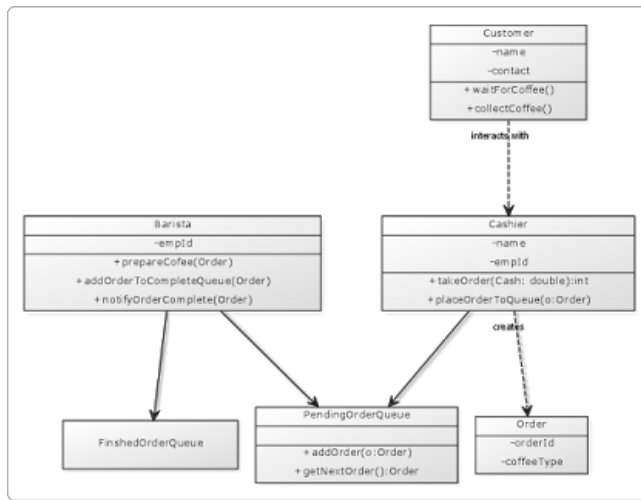
## Social Icons

## Ads 468x60px

## Popular Posts

Object Oriented design for Elevator in a multi-storied apartment
Object Oriented design for Elevator in a multi-storied apartment Below is the design for an elevator in a multi-storied building. A typ...

Object Oriented design for a cloud based file storage system like SkyDrive
Object Oriented design for a cloud based file storage system like SkyDrive The typical characteristics/requirements of a cloud storage s...

Coffee Shop Class diagram

Above is the class diagram for the above description of the Coffee shop. Notice that the order processing is done in an asynchronous way. Customer places the order and goes to some table and reads newspaper/checks his mails etc. Once the order is done, he is intimated about the order ready via an announcement (or even smart way is sending a sms, as you have taken his contact number). From an implementation perspective these asynchronous communication can be handled using JMS

Please take a look **Restaurant Design** once you are done here. The restaurant is slightly different from the coffee shop in which it has a waiter to handle all your needs. Please leave your comments.

Posted by Santosh Srinivas at 9:16 PM

g+1  +4  Recommend this on Google

## No comments:

## Post a Comment

Enter your comment...

**Comment as:**   Google Accour ▼

Publish      Preview

Newer Post                          Home                          Older Post

Subscribe to: Post Comments (Atom)

### Object oriented design for a library to borrow and renew books
Object oriented design for a library to borrow and renew books A typical library has a set of books which the users can borrow for a cert...

### Object oriented design for an online auction site
Object oriented design for an online auction site Typical set of operations on the online auction site from the user perspective are U...

### Object oriented design for a digital watch:
Object oriented design for a digital watch: A simplistic digital displays Hours of the day, minutes of the hour and the seconds of the mi...

### Object oriented design for a library to store books, movie dvds
Question: Design a library shelf which can store books or digital media also like CD/DVD. The design should be accommodate features so that...

### Object oriented design for a Restaurant
Let us do the OO-design for a Restaurant today. Let me first describe how the restaurant we want to model works. These are the different...

### OO design for a coffee shop
Let us do the design for a coffee shop today. Let me start with the description of how the coffee shop we want to design works first. T...

### Distributed Transactions and 2 Phase commit protocol
Distributed Transactions and 2 Phase commit protocol To start with let us a have a very very simple definition for a distributed system. ...

### Woohooo...Got my google drive with 5 Gig free storage
I just now saw a mail from google-team regarding availability of google drive for my google account. With over 5 GB of space it should s...

**Followers**

Join this site
with Google Friend Connect

**Members (2)**

Already a member? Sign in

**About Me**

**Santosh
Srinivas**

g+  **Follow**   65

View my
complete
profile

**Sample Text**

Awesome Inc. template. Powered by Blogger.