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Assignment No. 6

Enterprise Messaging System

* Problem Statement :

Publish - Subscribe System : Implement a topic based Public Subscribe System for Updated Cricket score for IPL Match

* Objectives :

To learn and implement enterprise messaging system

* Theory :

Middle ware

Middle ware is a layer of software between the distributed application and the OS and consists of standard interfaces that help the application use networked resources and services.

EMS (Enterprise Messaging System)

EMS defines system standards for organisations so they can define their enterprise application messaging process with a semantically precise messaging structure. It encourages you to define a loosely coupled application architecture in order to define an industry

accepted message structure; this is to ensure that published messages would be persistently consumed by subscribers. System designed with EMS are termed Message-Oriented Middleware (MOM). An asynchronous communication is used in EMS.

JMS (Java Messaging Service)

Java's implementation of EMS in API format is known as JMS

JMS allows distributed Java applications to communicate with applications developed in any other technology that understands messaging through asynchronous messages. JMS applications contain a provider, clients, messages and administered objects.

The publisher / subscriber paradigm

The publisher / subscribe messaging paradigm is built with the concepts of topics which behaves like an announcement board. Consumers subscribe to receiving messages that belong to a topic & publishers report messages to the topic.

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* Conclusion :

Publisher | subscriber model was successfully implements using JMS.