Abstract

As we know there is an increasing demand from the software industry to develop software model which can communicate and exchange information concurrently in multiprogramming environment. This is very difficult to find and eliminate concurrency problem like deadlock in a large and complex system. There is a need of model to identify and recognize concurrency problem such as deadlocks in the early stage in system and design model to get rid of these kinds of problems. In this paper author proposed a UML model for detecting the concurrency in early stage of design system. The author has also proposed a sequence diagram, activity diagram and use case diagram for the above model.

References

- Ansari, G.A., “A Domain Oriented Modeling of Indian Education System through UML” the Icfai Journal of Systems Management (IJSM) (ICFAI Press India), Vol. VIII; No.3; August,
2010.
- Pender, T.2003 UML Bible, Wiley.

**Index Terms**

Computer Science 
Software Engineering

**Keywords**

UML class model  Deadlock detection  Software  Concurrency