APPLYING COMPONENT SOFTWARE TECHNOLOGY FOR AN OBJECT-ORIENTED COOPERATIVE TOOLKIT

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ABSTRACT

THE OBJECT-ORIENTED PROGRAMMING HAS BECAME THE MAIN STREAM PROGRAMMING CHOICE. THE OBJECT-ORIENTED CONCEPT HAS BEEN APPLIED TO THE DESIGN OF SOFTWARE COMPONENTS. SOFTWARE COMPONENTS ARE NOT ONLY HAVE THE ADVANTAGE OF SOFTWARE RE-USE BUT ALSO CAN IMPROVE THE PRODUCTIVITY OF SOFTWARE DEVELOPMENT AND THE STABILITY OF SOFTWARE. IN ADDITION, THE CONSTRUCTION OF A COMPUTER SUPPORTED COOPERATIVE SYSTEM IS A COMPLEX AND DIFFICULT PROCESS BECAUSE OF THE COORDINATION OF PARTICIPANTS IN CO-OPERATIVE ENVIRONMENTS IS NOT EASY. THIS STUDY, BASED ON THE CO-OPERATIVE MECHANISMS WHICH INCLUDE ACTIVITY MANAGEMENT, SESSION MANAGEMENT, ACTIVITY MONITOR, EVENT RECORD AND USER MANAGEMENT, IS AN ATTEMPT TO DESIGN A COMPONENT-BASED COLLABORATIVE TOOLKIT. THIS TOOLKIT, COMPOSED OF CO-OPERATIVE COMPONENTS IMPLEMENTED USING JAVABEANS ACCORDING TO THE JAVABEANS SPECIFICATION, WILL PROVIDES A RAD (RAPID APPLICATION DEVELOPMENT) ENVIRONMENT FOR BUILDING CO-OPERATIVE APPLICATIONS.

Keywords : COMPONENT SOFTWARE, CSCW, CO-OPERATIVE MECHANISM, CO-OPERATIVE TOOLKIT, JAVABEANS

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