A QoS Adaptation Agent for Smart Festival Management System

Soongohn Kim¹, and Eungnam Ko²

¹ Division of Computer and Game Science, Joongbu University, 101 Daehakro, Chubu-Meon, GumsanGun, Chungnam, 312-702, Korea sgkim@joongbu.ac.kr
² Division of Information & Communication, Baekseok University, 115, Anseo-Dong, Dongnam-Gu, Cheonan, Chungnam, 330-704, Korea Corresponding Author: ssken@daum.net

Abstract. This paper presents the design and implementation of a QoS adaptation agent for collaborative multimedia distance system for smart festival management. A Model for Reliable QoS Constraints for smart festival management running on Pervasive Computing consists of several specification components. The system for a web based multimedia distance system includes several features such as audio, video, whiteboard, etc, running on situation-aware middleware for smart festival management which is able to share HTML format.

1 Introduction

The smart festival management system is a management system that, for the various festivals that are operated by the local self-governing entities and agencies, enables a direct operation of all the process phases from the advance preparation phase to operation phase and the post management and the administrative tasks, etc. of the planning operational headquarters and agencies [1, 2]. Advanced information network and multimedia technology are accomplished by combination of educational media through computer, video conference system CSCW(Computer Supported Cooperated Works), environment and interaction between participants of different location with on-screen pictures of each other which are possible to use voice, text and graphic [3]. A general web-based distance system uses video data and audio data to provide synchronize between teacher and student. In a ubiquitous computing environment, computing anytime, anywhere, any devices, the concept of situation-aware middleware has played very important roles in matching user needs with available computing resources in transparent manner in dynamic environments [4]. It is difficult to avoid a problem of the seam in the ubiquitous computing environment for seamless services.
2 Related Works: Festival Operation Phase and Data Control for Automatic Visitor Processing System

During the festival operation, systems for the design and construction of festival site facilities and festival risk management are important requirements as well. For smooth feedback during the festival operation phase, the interoperability between the management that applied QRCode (Quick Response Code) and automatic visitor processing system is essential [2]. The concept drawing for automatic visitor processing system is shown in Figure 1.

![Fig.1. An Example of QR Code and Automatic Visitor Processing System [2]](image)

3 Our Approach

Our proposed model aims at supporting adaptive reliable QoS requirements for seamless services by reserving, allocating, and reallocating necessary Resources given dynamically changing situations. A high-level conceptual architecture for seamless services to support adaptive reliable QoS requirements is shown in Figure 2.

![Fig.2. Our Proposed Model Architecture for Smart Festival Management System](image)

This paper proposes an URL synchronization function used in WebNote with remote collaborative education system based on CBM(Computer Based Multimedia) for...
smart festival management system. It retrieves the common characteristics of these tools and designs an integrated model including all these methods for supporting concurrent collaborative workspace for smart festival management system. This paper describes an integrated model which supports object drawing, application sharing, and web synchronization methods of sharing information through a common view between concurrently collaborating users for smart festival management system. This proposed model consists of multiple view layout and each layout control, a unified user interface, and defines the attributes of a shared object for smart festival management system.

4 Simulation Results and Conclusions

A proposed main structure for smart festival management system is distributed architecture but for error control and application program sharing, centralized architecture is used. The problem of rapid increase in communication load due to growth in number of participants was solved by letting only one transmission even with presence of many users, using simultaneous broadcasting. A general web-based distance system for smart festival management system uses video data and audio data to provide synchronize between server and client. In a ubiquitous computing environment, the concept of situation-aware middleware has played very important roles in matching user needs with available computing resources in transparent manner in dynamic environments. It is difficult to avoid a problem of the seam in the smart festival management system for seamless services. The system based on a web based multimedia distance system for smart festival management system includes several features such as audio, video, whiteboard, etc, running on situation-aware middleware for internet environment which is able to share HTML format for smart festival management system.

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References