Abstract

VoiceXML has emerged as standard for developing IVRS based telephony applications. It provides the requisite robustness and control over dialogue based delivery over telephone line. This paper presents a framework based on VoiceXML specifications for developing web based interactive voice applications. Communications are made using VOIP; therefore, user does not
have the dependency on telephony interface as required by existing VoiceXML specifications. Besides, it is able to handle the complex and voluminous information of web. The framework demonstrates the best practice of application design, development and software engineering.

Reference

- VoiceXML 2.0 http://www.w3.org/TR/voicexml20/ (accessed 26th March, 2011)
- VoiceXML 2.1 http://www.w3.org/TR/voicexml21/ (accessed 26th March, 2011)
- W3C Voice Specification http://www.w3.org/Voice/
- Stanislav Ondáš and Jozef Juhár, “Development and Evaluation of the Spoken Dialogue System Based on the W3C Recommendations”
- Emerson Cabrera Paraiso, Yuri Campbell, Cesar A. Tacla., “WebAnima: A Web-Based Embodied Conversational Assistant to Interface Users with Multi-Agent-Based CSCW Applications”
- Jordi Luque, Daniel Ferrés, Javier Hernando, José B. Mariño and Horacio Rodríguez., “GeoVAQA: A VOICE ACTIVATED GEOGRAPHICAL QUESTION ANSWERING SYSTEM”.
- J. Daly, M. Forgue, Hiraakawa, World Wide Web Consortium Issues VoiceXML 2.0 and Speech Recognition Grammar as W3C Recommendations, available online at:

Index Terms

Computer Science
Web Applications

Key words

VoiceXML
VOIP
Voice User Interface

speech recognition

speech synthesis

SICE