ABSTRACT

Abstract⎯With the fast growing of cloud computing infrastructure, learning from cloud services has become more and more convenient for people worldwide. In order to integrate the cloud computing technology and different e-learning platforms including variant mobile apps, Windows and web-based applications, we develop our Chinese learning system “analytic Chinese helper” with a service-oriented architecture (SOA). Based on the new architecture we designed and developed a cloud service for the e-learning of Chinese language on the Internet as a convenient resource for foreign students, especially in the reading of Chinese texts.

There are two Chinese phonetic systems: Pinyin and Zhuyin. Pinyin is the official Romanization of Chinese characters, and Zhuyin incorporates additional Bopomofo symbols which transcribe precise sounds of Chinese characters. The proposed analytic Chinese helper provides real-time annotations with Pinyin or Zhuyin symbols, and thereby the annotated articles can be used as e-learning objects in learning Chinese.

Keywords: Index Terms⎯Chinese-learning, cloud service, e-learning, Pinyin, Zhuyin.

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