AAC Services Development: From Usability Requirements to the Reusable Components

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Abstract. Intensive development of information and communication technologies can contribute gently to enhance alternative and augmentative communication for individuals who experience difficulty communicating in an understandable manner. Availability of intensit infrastructure and affordability of mobile comparted evices provide a sound starting point for planning and building AAC services. In order to make the services more familiar and understandable to user, it is justifiable to build them on top of common service platforms in an adaptive and configurable manner. In this purpose we present a component-based AAC service development model that enables building such services by using mundatory AAC components on the proposed of the proposed of the proposed of the proposed of the top of the component framework, and descring visual or one-visual components to all the proposed of the proposed of the proposed of the based on matching the data and netadata of unability requirements specified with the mentatata of washible components from the component pool. Registering use components into the reusable component pool extens the pool and helps building the component based AAC services development platform.

Keywords: alternative and augmentative communication, component-based development, usability requirements, component pool, AAC services.

1 Introduction

The means of communication in today's interconnected world are more diverse than evercontinuous growth, availability and affortability of information and communication technologies (ICTs) are considered enacial for bringing more people into information age [1], simultaneously emabling new ways of information exchange and contemp repoduction, offering new and transformative applications and services [2], Raising popularity and affortability of mobile computers, like tablest and smartphores, along with the common mobile phones and notebook PCs, provides an access capability for various growing and emerging user groups to different ICT services. Nevertheless, in order for these services to be fully accepted and utilized by the users, along with the proper functionality they have to offer, their priory need is to be usable and trustworthy.

In order to make the services more familiar and understandable to users, it is justifiable to build them in an adaptive and configurable manner, therefore relying on software reuse.

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