

Personal Health Assistant with Roaming Notifications for Google Smart TV

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Abstract—In our previous works we proposed a prototype of an m-Health application for Google Smart TV platform. The application reminds the user of her scheduled medicine intake and allows to keep a diary of intakes. When the time of the medicine intake comes, the application issues a notification that appears in the central area of the screen. The applications target audience is elderly people. They spend a lot of time nearby TV and often have to regularly intake their medicines. The user interface of the application is designed for display on TV screen, which has a lot of horizontal space while lacking vertical space, and for control by five-positioned navigation pad, i.e., TV remote.

Our recent progress in the application development covers the situation when the user is not at home at time of the scheduled intake. We propose the following solution: if the user does not interact with notification on TV for significant amount of time, she is considered absent and the application forwards the notification to her mobile device. The information about taking medication is pushed back to the TV application, which registers the fact of medication in the diary. Such an approach helps the user not to forget about her scheduled intakes even when she leaves home for few hours, thereby making treatment more effective.