World Academy of Science, Engineering and Technology International Journal of Computer and Information Engineering Vol:13, No:12, 2019

## User Requirements Analysis for the Development of Assistive Navigation Mobile Apps for Blind and Visually Impaired People

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**Abstract :** In the context of the development process of two assistive navigation mobile apps for blind and visually impaired people (BVI) an extensive qualitative analysis of the requirements of potential users has been conducted. The analysis was based on interviews with BVIs and aimed to elicit not only their needs with respect to autonomous navigation but also their preferences on specific features of the apps under development. The elicited requirements were structured into four main categories, namely, requirements concerning the capabilities, functionality and usability of the apps, as well as compatibility requirements with respect to other apps and services. The main categories were then further divided into nine sub-categories. This classification, along with its content, aims to become a useful tool for the researcher or the developer who is involved in the development of digital services for BVI.

Keywords: accessibility, assistive mobile apps, blind and visually impaired people, user requirements analysis

Conference Title: ICCA 2019: International Conference on Computers and Accessibility

Conference Location: Vienna, Austria Conference Dates: December 26-27, 2019