Abstract

Traveling is integral task in our day today life. Visually challenged people face various challenges to travel alone. Our project, Convoy is Android application developed for navigation to assist visually challenged for traveling and security. The main scope is to provide interactive interface for visually challenged people and to help them while traveling in familiar and unfamiliar environments independently and safely using Global Positioning System (GPS). The user will enter destination by vocal commands and app will give voice directions for navigation. When the user suspects danger or insecure situation, he can send SMS (Short Message Service) to the registered contact with its current location immediately. Thus, the use of the application will surely ease some of the difficulties faced by visually challenged user and can help them in achieving an independent livelihood.

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**Index Terms**

Computer Science Artificial Intelligence

**Keywords**

Convoy, Global Positioning System (GPS), SMS