Accessible Mobile Apps: Digital lifestyle for Visually Impaired People in Internet Era

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About 15% of the world's population lives with some form of disability.

Estimated **253 million** people live with vision impairment: 36 million are blind and 217 million have moderate to severe vision impairment.
Bangladesh Statistics

- The number of people with disability is more than 15-20 million.
- **3 million** are visually impaired/blind.
- Constitution says that Bangladesh should make sure persons with disabilities have equal rights like everyone else.
- A major shift in paradigm from a welfare based approach to a right based approach.
- Budget allocation and Braille books printing initiative taken by Govt in 2015 for listed visually students in primary and higher secondary.
Challenges

- Disability is difficult to measure.
- Many people with disability living in silence.
- Less number of disabled students in students, university and offices.
- The state is unable to bring them under education system due to the lack of accessibility in transport system and academic building!
- Disabled people are excluded from productive manpower stream of economic cycle due to inaccessibility!
Exploring the Role of Information and Communication Technology in Providing Access for the Visually Impaired People.
Mobile apps can help people with Disabilities navigate cities.

Assistive Technology (AT) market for people with disabilities.

Integrated accessibility on smartphone or tablet.

Accessible conference.

Text to Speech or Speech to Text (ex. Captioning).
Bangladesh on mobile app for visually impaired

- Talkback
- Inclusive University – A2I of Bangladesh Govt is welcoming innovative idea
- Accessible poetry app
- Daisy Talking Book
Intervention
Are accessibility features in touch based mobile devices good enough to obtain a good user experience?

Does user interface and the usability tests of mobile apps design focus on disabled users?

What do brands and developers need to do on mobile accessibility?

Is there sufficient research on the mobile app needs for visually impaired people?

Is voice over or speech to text enough to access the apps for visually impaired?
Digital accessibility to bring a change in access to the world for the visually impaired people.