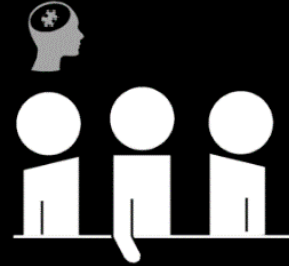


Accessible Mobile Apps: Digital lifestyle for Visually Impaired People in Internet Era

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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.
- Rights and Protection of Persons with Disabilities Act 2013.
- Budget allocation and Braille books printing initiative taken by Govt in 2015 for listed visually students in primary and higher secondary.

Challenges

inaccessibility



- 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.