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# 15 PROJECT

## BRAILLE READER AND NAVIGATOR



There are around 253 million visually impaired people around the world. They need the Braille form of writing to read. The content produced in Braille is quite limited compared to the regular content. Its availability is also scarce. With increase in the creation and consumption of digital information, visually challenged people have very limited means to access this digital information in Braille. As a result, they have limited access to information from their surroundings, without depending on someone else.

The Braille Reader and Navigator system developed by us, tackles these problems. It generates real-time Braille impressions that can be read by the user. Digital and physical information can be accessed in Braille. The system's navigator functionality helps the users in obtaining information from their surroundings. The system can also help new Braille users to learn Braille. The system is designed and developed to enable the visually impaired to have a friendly interface, with the help of voice instructions and a physical button setup

Features:

- Allows the user to access digital and physical information, to enable the visually impaired to be less dependent on others.
- Helps them obtain information about their surroundings and makes them well-informed about things happening around them.