Cyber Space Sustainability Project

App for Visually Impaired

Mission Statement

To develop a modern system of delivering directional information to the visually impaired using QR (Quick Reader) Codes and Cell phone applications.

Synopsis

Based on an invention of Prof. Eric Flynn at Gateway CC (New Haven, CT) the team was tasked with creating an alternate form of Braille reading using a cell phone software application.

Normally sight impaired people use their fingers to read Braille code. Alongside the normal Braille code a plastic panel would contain QR code. QR code (abbreviated from Quick Response Code) is the trademark for a type of two-dimensional barcode first designed for the automotive industry in Japan. The QR code created by the team contained a unique webpage link.

To simulate what the software application (app) would do the team first created a novel webpage application. When the QR code is scanned by the phone's QR reader the code produced takes you to a web page that contains a voice message of the physical location of the phone. The team created the web page that rendered correctly on the cell phone that captured the QR code.

A cell phone software application is currently being written that will contain everything with one click of a app icon.

Sean Belleau	University of New Haven
Florian Orleanu	Middlesex CC
Terrence Sylvester	Tunxis CC
Gabriel Geist	Middlesex CC