TEAM NAME : INFINITY
TEAM LEAD : SPANDANA B

SMART BLIND MAN SHOE :

THIS IS A PROJECT WHERE WE TEND TO SOLVE A MAJOR PROBLEM OF A BLIND PERSON BY HELPING HIM/HER FOR WALKING IN THE STREETS WITHOUT ANY DIFFICULTIES AND FEAR.

HERE WE HAVE INTEGRATED AN ARDUINO UNO, ULTRASONIC SENSOR, BUZZER , SWITCH , BATTERY, GSM MODULE AND HAPTICS FEEDBACK . THE SHOE HAS MANY FEATURES LIKE GIVING A BUZZER SOUND IF THERE IS ANY OBJECT OR UNEVEN SURFACE BY THE DETECTION OF ULTRASONIC SENSOR AND GIVES DIRECTION BY VIBRATIONS OR AUDIO CALLER WHEN INTEGRATED WITH THE GSM MODULE.

WE USE THE ARDUINO IDE FOR DUMPING ALL THE INSTRUCTIONS IN FORM OF CODE FOR THE WORKING OF THE SHOE .
THE CODE IS MOSTLY OF C/C++ PROGRAMMING LANGUAGE AND THE GSM MODULE WHEN CONNECTED WITH A CELLULAR DATA OR WIFI IT GIVES DIRECTION THROUGH GOOGLE MAPS (OR ANY OTHER DIRECTION APP).

FOR MONITORING WE CAN USE BLYNK OR ANY IOT BASED TRACKING AND FOR THE WEBSITE WE WILL USE HTML, CSS AND JAVASCRIPT .