SPECIFICATIONS

PURPOSE	To trace the person's path by interfacing Smartphone's Bluetooth and controller board using his/her coordinates.
INPUT	Coordinates given by smart phone (X, Y and Z)
PROCESSING UNIT	➢ Bluetooth module ➢ Arduino (controller board)
OUTPUT	➢ coordinates converted to latitudes and longitudes ➢ google map
FUNCTION	➢ Person having smartphone is being traced using controller board to give a real time google map containing the location of the user. ➢ Smart phone provides the X, Y and Z coordinates to the controller board using Bluetooth module through transmitting and receiving operations. ➢ Controller board converts these coordinates to the Longitudinal and Latitudinal coordinates which results in the formation of real time google map on our host computer through which we can locate the person with in the range of our Bluetooth module. ➢ Since we are connecting Bluetooth of user's smartphone with the Bluetooth module connected to controller board (Arduino), it is basically a Master- Slave communication where Arduino is working as Master and the Bluetooth module as a Slave.
PERFORMANCE	Overall outcomes of proposed model are: ➢ Physical location of the user in form of his/her coordinates ➢ Latitudinal and longitudinal coordinates by controller board ➢ Real time google map
MANUFACTURING COST	➢ Arduino UNO (700-800 INR) ➢ Bluetooth Module (350 INR) ➢ Smart phone with Internet Connectivity (0 INR) ➢ TOTAL (1150 INR)

POWER	➢ To Arduino by Computer (5V) ➢ To Bluetooth module by Arduino (3.3V)
PHYSICAL SIZE AND WEIGHT	➢ Handy and portable (smartphone with the user) ➢ Pocket size Arduino (with Bluetooth module connected to it) ➢ Self-contained, handy and affordable to user