

## Algorithm to Make sure a safe distance is being kept:

- Install Bluetooth Beacon detectors around the place and make sure the whole area is covered.
- Hand over badges with Bluetooth beacon attached to them.
- Write a phone app that scan the Bluetooth beacons locations periodically.
- Whenever the app detects that another Bluetooth beacon is closer than 1m for more than 20 sec it'll send a notification to the visitor "Please keep safe distance".
- If the visitor didn't follow the instruction and the other Bluetooth beacon remained in the danger range for more than 1 min the app fires an alarm that automatically stops when the safe distance kept.
- Make sure that all the visitors download the app.

# Flowchart:

