



SOCIAL DISTANCING ROBOT

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Social Distancing Robot:

- 1- A maximum of 50 chips (the maximum capacity preferred) will be in the entrance of the hall so the amount of people entering at once will be known and limited.
- 2- The chip contains the Bluetooth beacon chip to track visitors as presented in figure(1).
- 3- The chip can be placed in the device in figure (2) and it will be attached to each visitor (the same concept as the anti-theft chip in clothes) by the security before entering.
- 4- The robot will be placed in the corner and will contain gears to move when a signal is sent from the chip.
- 5- If 5 people were near to each other with a one-meter distance the chip (Bluetooth beacon) will send a signal to the robot.
- 6- The robot will move towards the signal.
- 7- The robot will show a message in its screen with 3 of the most popular languages in the UAE (English, Arabic, Urdu) to alert the visitor, and will also read the message through its speakers.
- 8- the robot won't return to its first position until the signal is off when the visitors are separated and following social distancing rules (a distance more than 1 meter between each visitor).
- 9- The visitor will not be able to remove the chip until they reach the exit door, the security will remove it with a special device shown in figure (3) when they exist and attach it to the next visitor.



Figure(1): BLE Wearable Beacon can be used.



Figure(2): Interior of anti-theft chip which can be attached to cloths.



Figure(3): Device to remove the chip.