



QBeacon

**Smart Queueing and Social Distance Monitoring System
providing Safe Proximity Marketing Services**

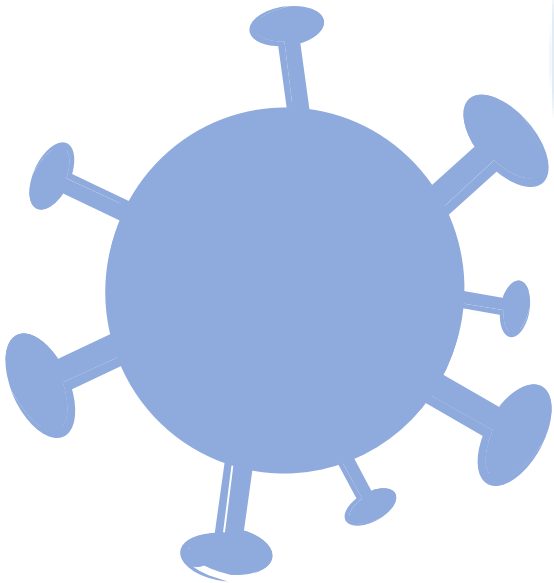
- Life has changed a lot due to **COVID-19 pandemic** and it is essential for people to wear mask, sanitize their hands and maintain social distancing.
- According to a survey by **BBC India** more than **69%** of country's population **don't follow social distancing** norms .
- Referring to an **ICMR** study, one COVID -19 positive person can **infect 406** people in **30 days**, if social distancing measures are not in place .

OBJECTIVES

- To provide a effective Social Distancing Monitoring (SDM) system.
- To provide Proximity marketing services while ensuring Social Distance norms and maintaining a Queue.

PROPOSED SOLUTION

Application that can monitor Social Distancing norms at public places and provide safe proximity marketing services.



QBeacon

- QBeacon is a WiFi - Direct mobile application, which enables communication between peers in a same network.
- It uses Bluetooth to detect nearby devices and establish a social distance monitoring system.
- Based on the connection criteria, a internal queue is formed and the orders are displayed in the app.

APPLICATION FEATURES

AI SOCIAL DISTANCE
ALERter

01

CREATES A SMART
QUEUEING SYSTEM

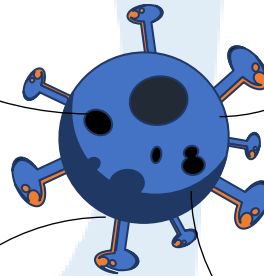
04

CREATES A P2P
NETWORK

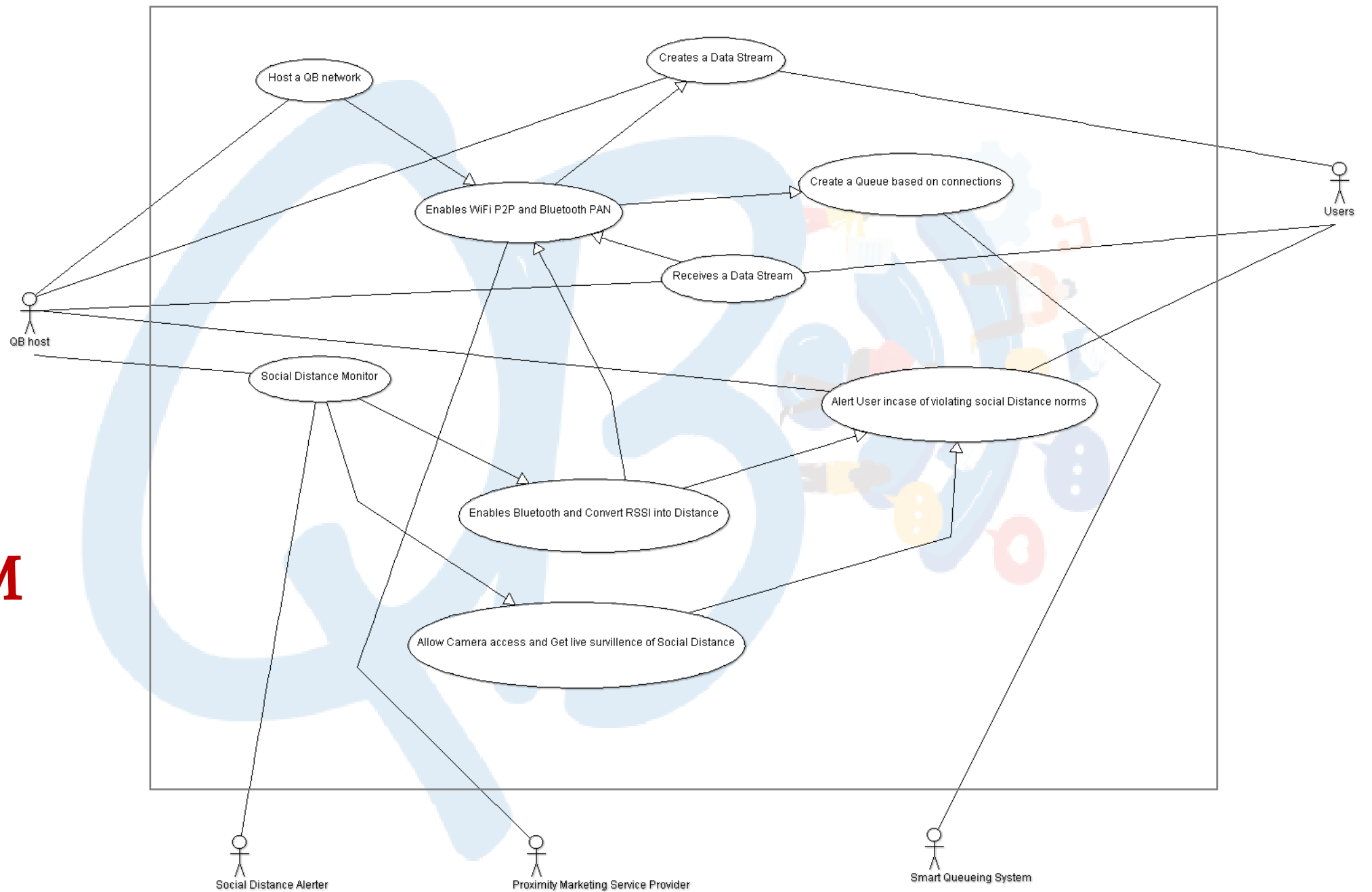
02

PROVIDES SAFE
PROXIMITY
MARKETING SERVICE

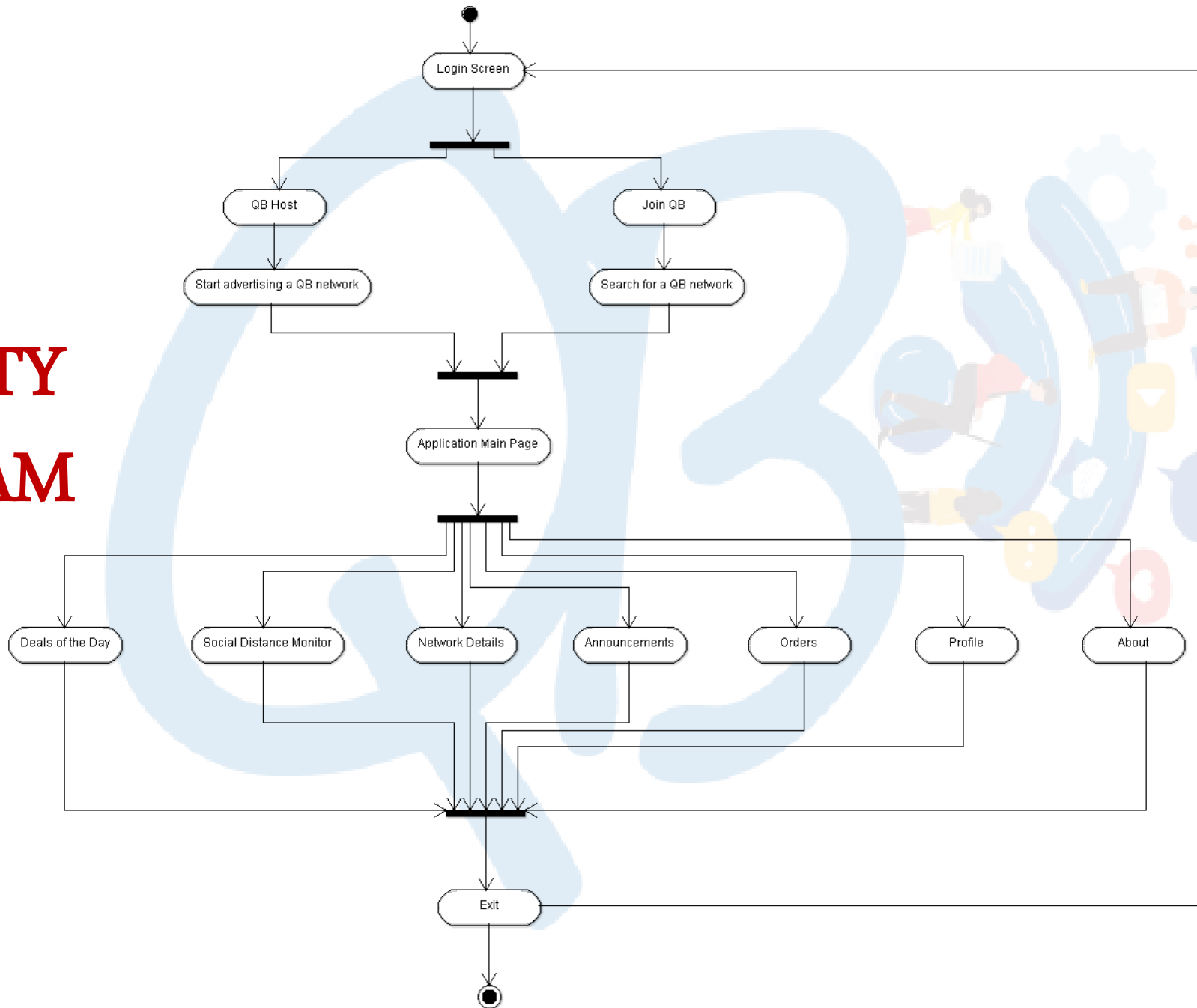
03



USECASE DIAGRAM



ACTIVITY DIAGRAM





Welcome to QBeacon

Smart Queueing System



Username



QB Host



Join QB

Get started

12:51 PM

Thu February 25, 2021



1 SIM1 airtel

2 SIM2 BSNL Mobile

Search

Notification

Block

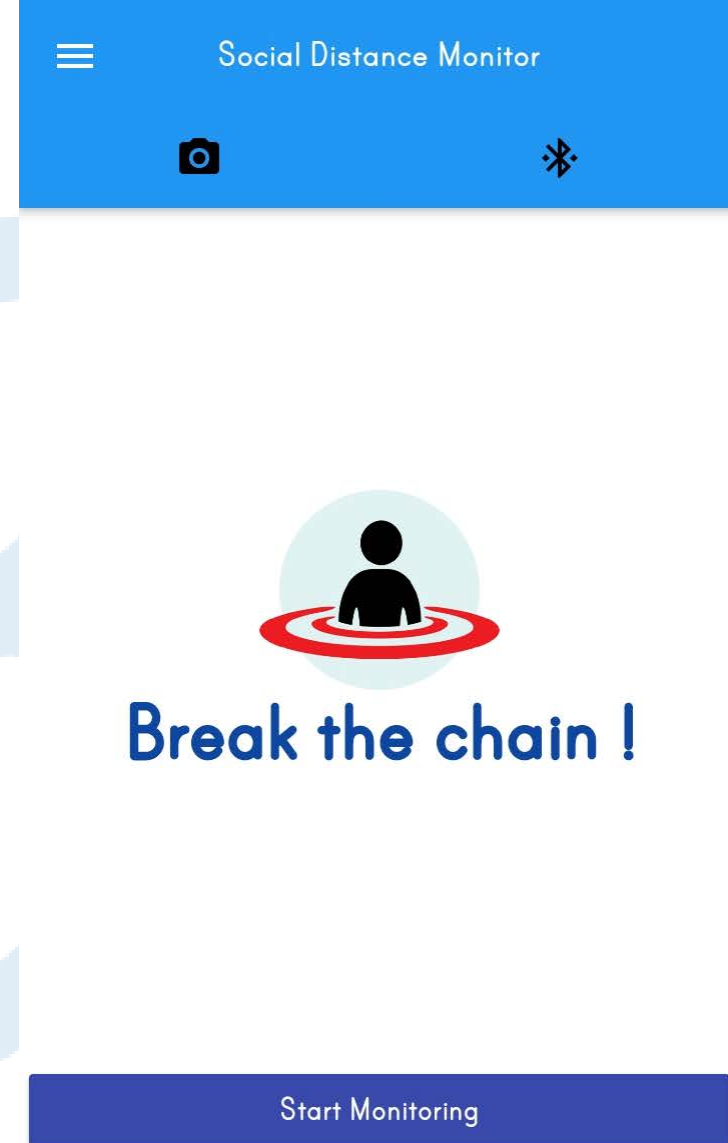
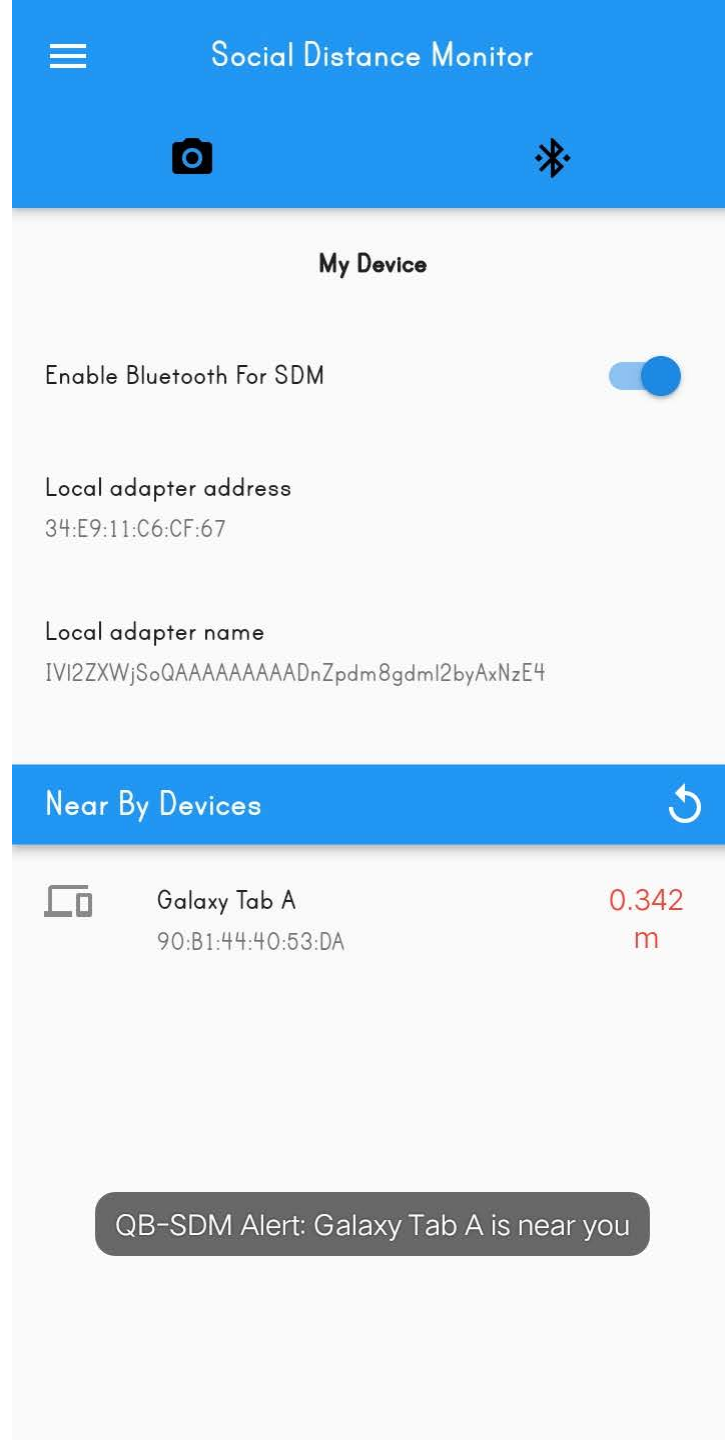
QBeacon • Now

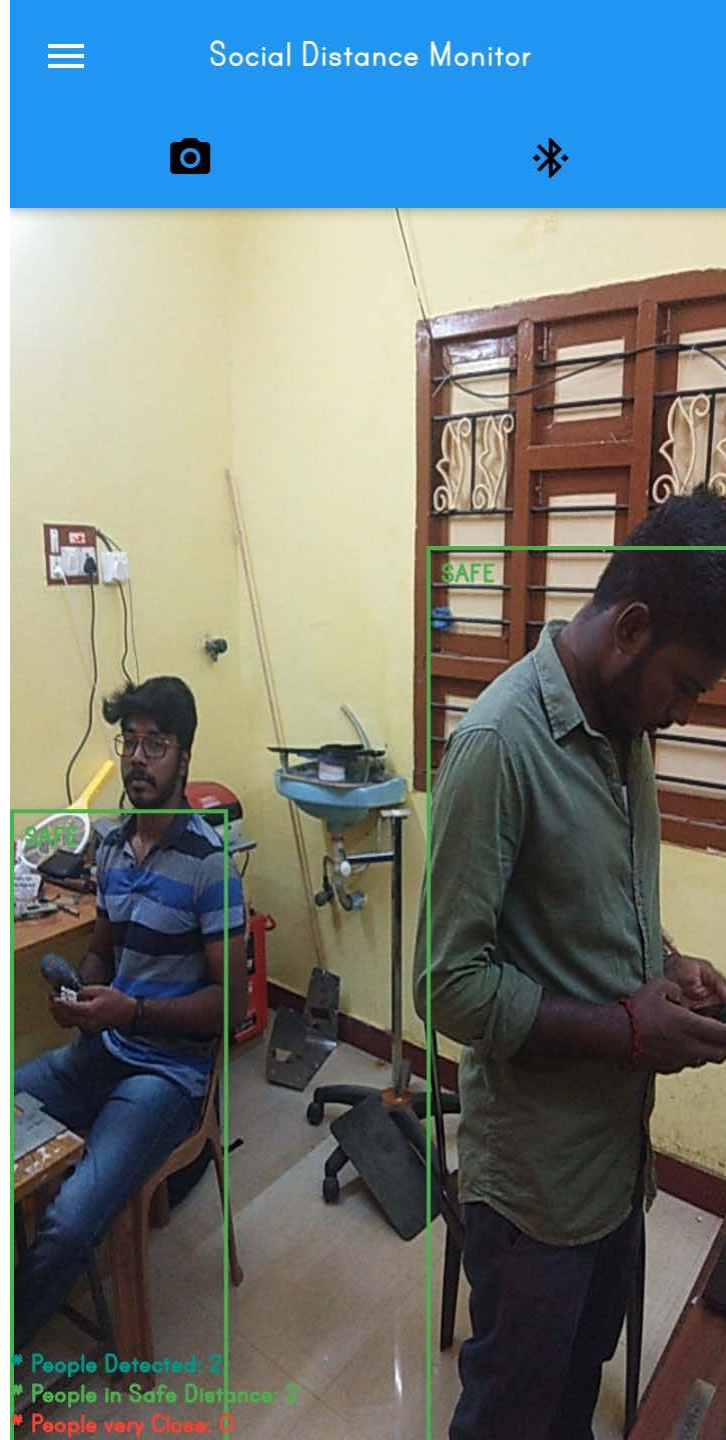
Nearby Service

Wi-Fi Direct

SIM1 Today: 211.2 MB This month: 12.55 GB >









My Profile



Username

Gowthamaan

Enable Host mode



Announcements

Maintain Social Distancing

Milk sold out



Type the Announcement



About

QBeacon, 1.1.0

Application name and version

Contact Information

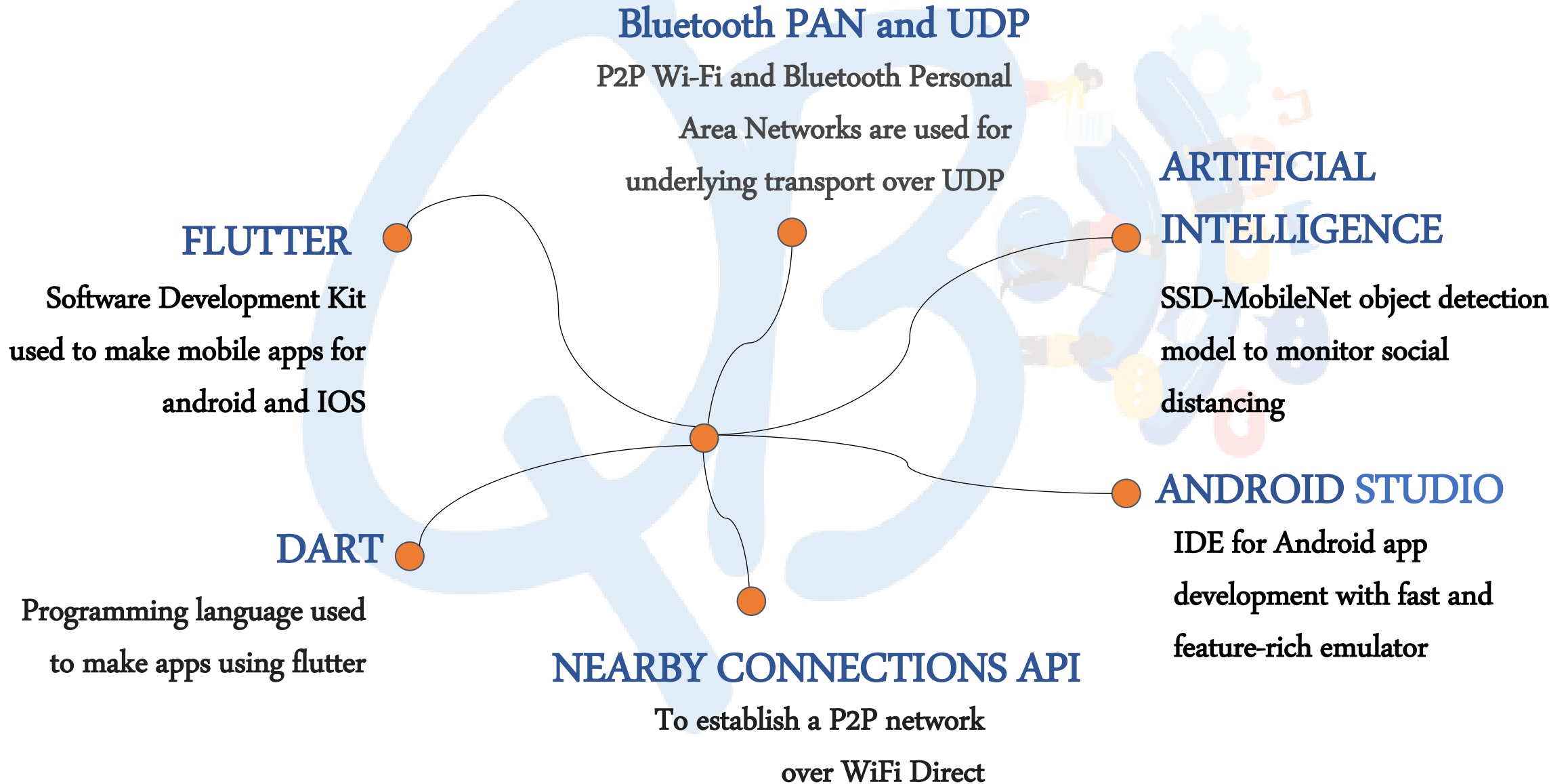
Equinox

Developer

equinoxgroup258.com

[END-USER LICENCE AGREEMENT](#)

TECHNOLOGIES USED



PROJECT OUTCOMES

- Alerting people whenever social distancing norms are violated to halt the spread of corona virus.
- Enable mom and pop shops to have a proximity marketing system in a low cost and attract customers in a most effective way.
- Stores data and helps in determining the travel history of an infected person thus, easing the tracking process of the primary and secondary contacts.
- Stored data and advertisements broadcasted through QBeacon helps the customers easily locate the availability of the needs and services.
- Provide effective queuing system and order handling system.

QBeacon V2.0 – Future Enhancements

- **QBeacon networks can be interconnected and a fully local P2P communication can be established.**
- **Can be used as local location based guide or a navigation system inside a local infrastructure or a tourist place, thereby giving better user experience on the services offered or provided earlier.**
- **Broadcast awareness messages through QBeacons, in Health centres, hospitals, other Government offices and public places.**

Thank You!



- KRITHI.A
- DHARANIDHARAN.S
- GOWTHAMAAN.P

BTech III-year ECE