Site Safe19 - App & Infection Tracing System Overview

EXECUTIVE SUMMARY

The Safe19 App and system is a completely anonymous automated contact tracing system that reduces absences due to Covid and Flu and associated costs.

➢ **Automated contact tracing**
➢ **Anonymously**
➢ **Via a Simple App that does not use Bluetooth or GPS location**
➢ **Contact Tracing Reports**
➢ **Infection Transmission Reports**
➢ **App can be branded to any Organisation**

Outbreaks of any Infection are tracked on a location by location basis by a simple QR scan.
All those at risk are alerted directly or indirectly via the App.

SYSTEM CAPABILITIES

The Safe19 system is a sophisticated infection tracing that can be configured in multiple ways to permit effective management of any outbreak.

➢ **Reporting**
➢ **Risk Messaging and Alerts**
➢ **Risk Calculations & Conditioning**
➢ **Intelligent Data Modelling & Forecasting**
➢ **Security and Fraud Prevention**
➢ **Hosting and Performance**

People scan each time they visit a venue. Each visit is simply and anonymously checked for a match, with someone who has visited the same location at the same time and tested positive for Covid-19.

Risk and alerts are configurable for every location allowing employers, hospitals etc. to manage their outbreaks according to their own preferences.

REPORTING

A range of reports ensure Infection information in a simple user-friendly format. The information is a powerful tool to monitor, manage and reduce numbers of cases.

➢ **Daily Number of Contacts Traced**
➢ **Infection Transmission Routes from Site to Site**
➢ **Covid KPIs showing increasing or decreasing cases**

Infection reports are run off detailed SQL data sets. Full support, management, reporting and analysis is available to each Public Health Authority.

INDIVIDUAL USER GROUP MESSAGING AND ALERTS

The Safe19 system can be configured in multiple ways to permit effective management of any outbreak. Each individual messages are customised to each outbreak at each site.

➢ **Individual Risk Messages per site per outbreak per day**
➢ **Auto alerts or Soft Alerts**
➢ **Test Results Verification**

Messages and alerts can be turned off and on as necessary. Test reports always need to be verified and approved before any alerts are sent.

INTELLIGENT RISK FORECASTING

Levels of risk and times of risk can be set for each individual location based upon available data.

➢ **5 separate timing checks to determine Risk**
➢ **3 different scenarios to forecast Risk times**
➢ **Test Results Verification**

Modelling of times and risks is used to determine future risks.

SECURITY AND FRAUD PREVENTION

The whole of the Safe19 IT system security is built to recognized Industry standards. Security Policies detect any patterns of unusual behaviour or any other fraudulent attempt to make use of the App.

➢ **SSL technology, whitelists, bearer tokens and X site fetching**
➢ **Security Checks for Patterns of Positive Tests Received, Senders, Devices**

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NUMBER OF CONTACTS TRACED PER DAY PER SITE

For each outbreak a daily count of the number of people who have been alerted by the App to a possible risk of infection. A real-time, real-world view of the number of potential cases of Covid that have been detected and alerted.

- ➢ **Daily Number of Contacts Traced**
- ➢ **Total Number of Contacts Traced per site per outbreak**

ROUTE OF INFECTION SPREAD FROM SITE TO SITE

The routes including days and times where Covid is suspected of spreading from one site to another site.

- ➢ **Infection Transmission Routes from Site to Site**
- ➢ **Suspected original sources of each outbreak**

Infection reports are run off detailed SQL data sets. Full support, management, reporting and analysis is available to each Public Health Authority.

INFECTION RISK DATA ANALYSIS REPORTS

The detailed data highlighting the times each person was exposed to a risk. risk exposed routes including days and times where Covid is suspected of spreading from one site to another site.

- ➢ **Average time a person was in a site exposed to risk**
- ➢ **Suspected original sources of each outbreak**

Infection reports are run off detailed SQL data sets. Full support, management, reporting and analysis is available to each Public Health Authority.

INDIVIDUAL USER GROUP MESSAGING

Five User Groups are available for each business. Each User Group receives an individual message for the same risk location in a simple user-friendly format. As each User Group has a different reporting structure, this is a powerful tool to alert various groups of people in the most effective way.

> **Public / Passengers / Patients**
> **Staff / Nurses / Doctors /Dentists**
> **Maintenance / Cleaners / Facilities staff**
> **Ambulance / Fire & Rescue / Police / Customs**
> **Drivers / Ship Crew / Air Crew**

The individual User Groups can be set up to suit the individual business requirements.

INDIVIDUAL USER GROUP MESSAGING HOSPITALS – EXAMPLE

Risk Royal Victoria Hospital Ward 601 (Belfast Health & Social Care Trust) 10th October daytime
Royal Victoria Hospital Ward 601→ Cardiology → A & E → Ambulance

Patients	Staff	Catering	Porters	Maintenance
Please check your emails re your visit to Cardiology on 10th October. Ref:C19W602221023	Possible C19 risk Cardiology W602 10 Oct Pls follow Guidelines Ref: C19W602221023	Possible C19 risk Cardiology W602 10 Oct Pls contact Operations Ref: C19W602221023	Possible C19 risk Cardiology W602 10 Oct Pls contact your supervisor Ref: C19W602221023	Possible C19 risk Cardiology W602 10 Oct Pls contact Mike Wilkins Ref: C19W602221023

INDIVIDUAL USER GROUP MESSAGING PORTS – EXAMPLE

Risk Port Cruise Terminal 18th October Evening
Bristol Port Head Office → Cruise Terminal → Ship

Passengers BS11Port	Staff BS11PortStaff	Ship Crew BS11PortUser1	Drivers BS11PortUser2	Maintenance BS11PortUser3
Please check your emails re your visit to Bristol Port on 18th Oct. Ref: C19CTM221018	Possible C19 risk Cruise Terminal 18th Oct Pls follow Guidelines Ref: C19CTM221018	Possible C19 risk Cruise Terminal 18th Oct Pls Contact Staff Captain Ref: C19CTM221018	Possible C19 risk Cruise Terminal 18th Oct Pls Contact Port Operations Ref: C19CTM221018	Possible C19 risk Cruise Terminal 18th Oct Pls contact your supervisor Ref: C19CTM221018

ALERTS LEVELS AND VERIFICATION

Three levels of Alerts are possible within the Site Safe App based on data supplied by the Safe 19 system.

➢ **Not Verified**
➢ **Verified and No Alert**
➢ **Verified and Alert**

Each alert level is specific to an individual site on an individual day. Fully customisable.

NOT VERIFIED

Until any reports of a Positive test are accepted and verified by the Site Manager the App will show the normal message for the Site and a Local Risk alert level.

➢ **Normal generic "Safety Advice" message on home screen**
➢ **Normal Alert status - Local Risk**

VERIFIED AND NO ALERT

When the Positive test results are accepted and verified by the Site Manager a site specific message is displayed to all at risk. At this stage there is an option for the Alert level to remain at "Local".

➢ **Site specific Risk message on home screen and Am I Safe page.**
➢ **Is this is the person's Home site, Staff or Users get their specific risk message.**
➢ **Normal Alert status - Local Risk**

VERIFIED AND ALERT

If the Site Manager wishes they can specify Auto Alerts. The Alert level of High risk or Medium risk is displayed to all at risk.

➢ **Site specific Risk message on home screen and Am I Safe page.**
➢ **If this is the person's Home site, Staff or Users get their specific risk message.**
➢ **Alert status - High Risk / Medium Risk**

HOSTING AND PERFORMANCE

A primary requirement of the Safe19 design spec has been to minimise network data traffic ensuring the fastest possible user experience.

- ➤ **Minimal Network data traffic**
- ➤ **Web Servers with Load balancing and Performance Monitoring**
- ➤ **App is optimised for Network Connectivity Response**

App reports are run off detailed data sets that are available for further analysis. Full support, management, reporting and analysis is available to each Public Health Authority.

SAFE19 DEVELOPMENT

The Safe19 system developed from a simple anonymous contact tracing App to a sophisticated infection tracing providing a range information to permit effective management of any outbreak.

- ➤ **Over 3000 hours of design, development, and testing**
- ➤ **Safe19 Design Team – over 100 years combined major IT Programmes experience**

PRIVACY AND GDPR

From the start Data Privacy has been a major concern of the App as this is of paramount consideration in getting people to trust and hence utilise the App. The major feature of this has been to design out the need to not store any personal data.

- ➤ **No personal or address or financial data is stored**
- ➤ **Safe19 Privacy Policy is stated publicly on the web site and is included in Appendix A**

The Safe19 App collects a list of locations that may pose a risk of Covid-19 infection for given date and time. This is collected via the location information from those people who have tested positive for infection. These are known as HOT locations. No personal identifiers are kept with HOT locations data.

SAFE 19, SITE SAFE 19 APP - GDPR COMPLIANCE STATEMENT INC. THE DATA PROTECTION ACT 2018.

The Data Protection Act 2018 is the UK's implementation of the General Data Protection Regulation (GDPR).

The Data Protection Act 2018 controls how personal data is used by organisations, businesses or the government.

Personal Data includes obvious categories such as full name, home, address, email address, national identification number, passport, number, vehicle registration license number, credit card numbers, date of birth, birthplace, telephone number.

None of these categories of personal data is either read, collected or stored by the Site Safe19 App and Web Server database.

The only data recorded on the Safe19 Web Server database are Apple device UDID values and Android device UUID values. Do UDID and UUID values constitute personal data under GDPR?

Personal data is that which the data controller or another person, with "means reasonably likely to be used," can use that data alone or in combination with other data to identify a natural person? (Chapter 1 - General Provisions - Article 4 - Definitions Recital 26 EU GDPR)

On the Safe19 system there is no other personal information held on the system. It is not possible to identify a natural person using just a UDID or UUID value. If it therefore considered that the Safe 19 system holds no personal data within the meaning of the GDPR.

Therefore, there are no provisions of the Data Protection Act encompassing GDPR that are relevant to the Safe19 system and the Site Safe19 App.

SAFE 19, SITE SAFE 19 APP PRIVACY POLICY

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