

# Contact Tracing

Help Keep your community safe!



Imag Software

<https://imago.cs.manchester.ac.uk/>



<https://soteriainstitute.org/>



Enduring Net

<https://enduringnet.org/>

# Ingy Abdelhalim

UoM  
computer  
science  
student

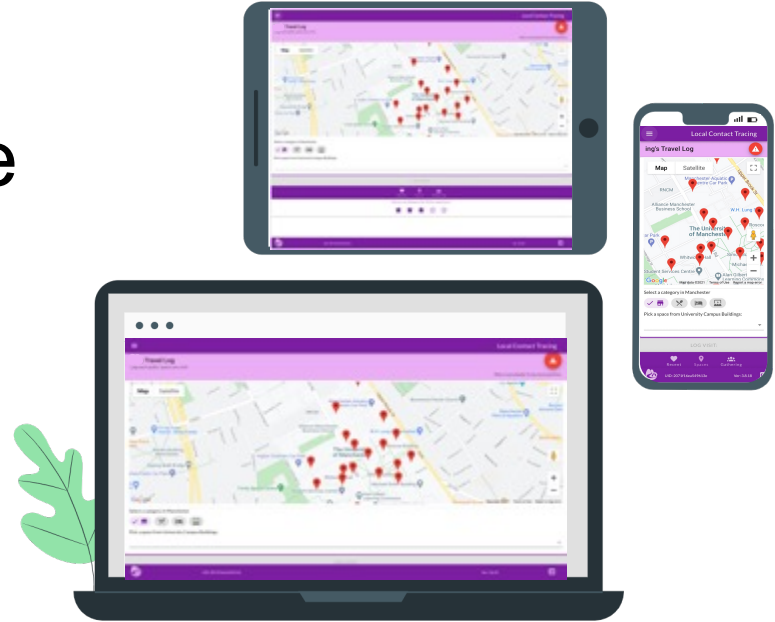
Business  
analyst /  
developer  
on the LCT  
project





# What is the Local Contact Tracer (LCT)?

- ☐ Covid contact tracer
- ☐ Local area, global scope
- ☐ Cross devices
- ☐ Does not rely on GPS
- ☐ Identity-less



<https://lct-sisters.herokuapp.com/>

<https://lct-uom.herokuapp.com/>

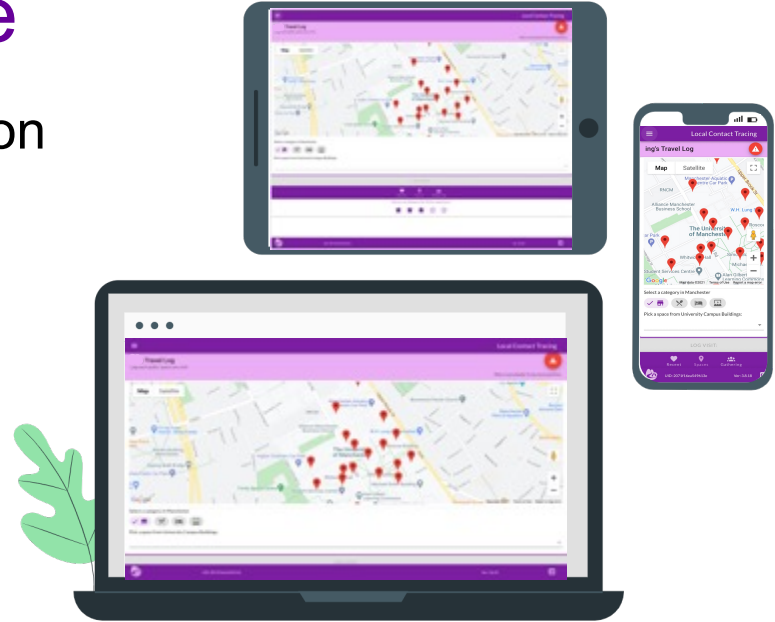




# What is the Local Contact Tracer (LCT)?

## ❑ Local area, global scope

- Large enough portion of the population use it
- LCT not limited to the geographic location: travelling, trips etc



<https://lct-sisters.herokuapp.com/>

<https://lct-uom.herokuapp.com/>

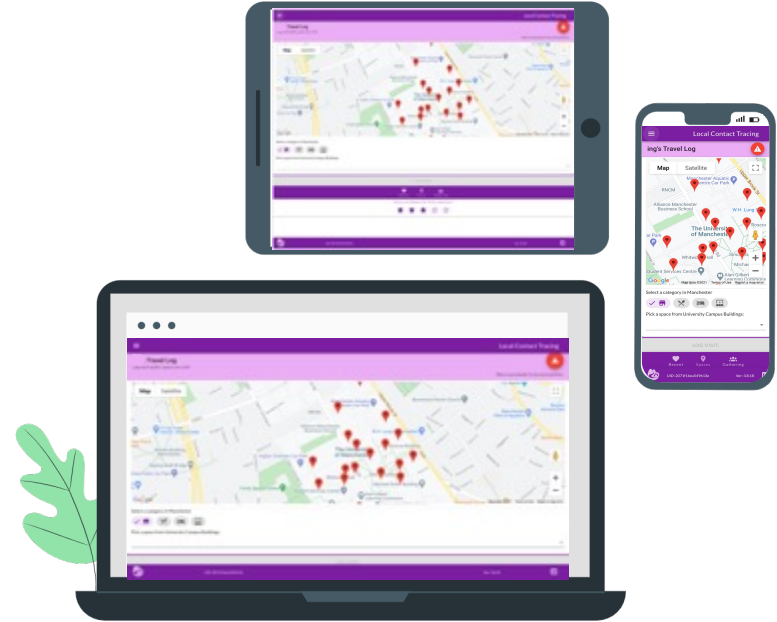




# What is the Local Contact Tracer (LCT)?

## ❑ Cross devices

- Search engine and wireless access



<https://lct-sisters.herokuapp.com/>

<https://lct-uom.herokuapp.com/>

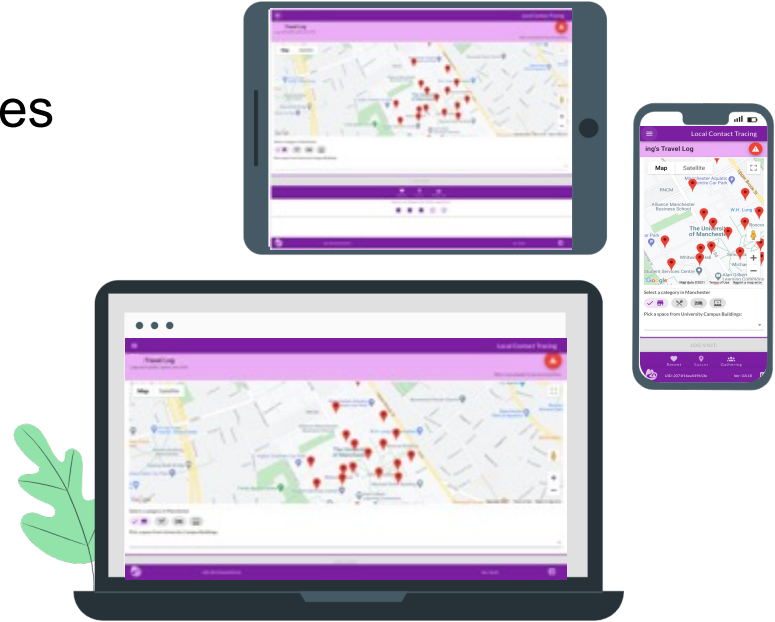




# What is the Local Contact Tracer (LCT)?

## ❑ Does not rely on GPS

- Logs the activity you record and it does thus using longitude and latitude.



<https://lct-sisters.herokuapp.com/>

<https://lct-uom.herokuapp.com/>

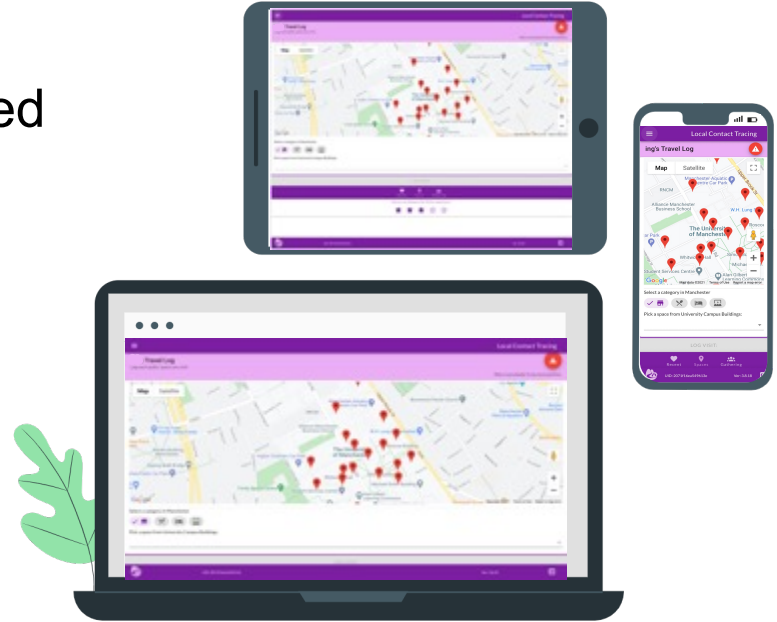




# What is the Local Contact Tracer (LCT)?

## ❑ Identity-less

- User's names are never known or used so there is no invasion of privacy



<https://lct-sisters.herokuapp.com/>

<https://lct-uom.herokuapp.com/>



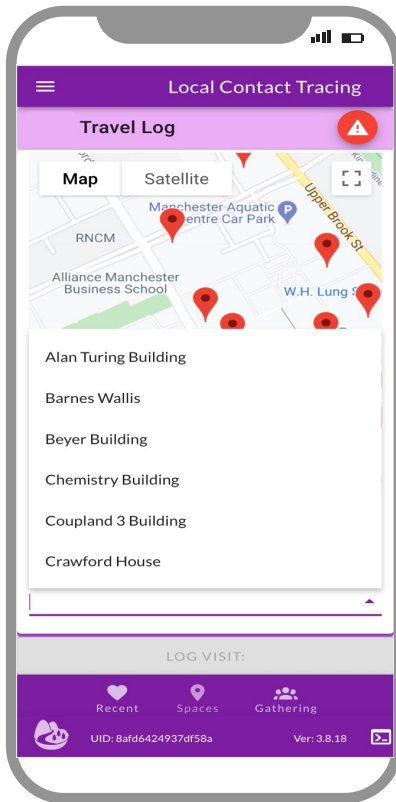


# How does it work?



## Protect your privacy and your community

- No GPS tracking
- Supports range of locations



## Supports a wide variety of space:

*No need for official building registration*

- ☐ University/office buildings
- ☐ Coffee shops
- ☐ Libraries
- ☐ Movie theatres
- ☐ Parks
- ☐ Gatherings
- ☐ And many more!






# New user's perspective



# Creating a user account



LCT v.3.30.22



Local Contact Tracing

Welcome to Manchester

LCT is our community's way of getting back to work safely

Enter your nickname

Lecturer

8 / 10

Welcome to Local Contact Tracing - Manchester

**Let's get to work (safely)**

If you proceed, (using this browser) you will always log on to the server as Lecturer. Ready to crush this virus?

NO THANKS   ABSOLUTELY



# Lecturer perspective




# Creating a tutorial group meeting




Ex meeting in a park

LCT v.3.30.22



Local Contact Tracing

**Lecturer's Travel Log**  
Log each public space you visit.

  
Warn everybody if you test positive.

### Gatherings

Not staying in a fixed location? Log moving groups to help protect your community


CREATE A NEW GATHERING


X4 Tutorial Group Meeting hc4cjqlrf6gdqtr43gg9n7jph0on73 ✕


Give your gathering a name, then press enter to randomize it and share with your friends


JOIN AN EXISTING GATHERING


SELECT A TIME SLOT FOR:  
X4 TUTORIAL GROUP MEETING HC4CJQLRF6GDQTR43GG9N7JPH0ON730FBN4






Recent


Spaces

Calendar

Gathering












# Logging the tutorial

LCT v.3.30.22



Local Contact Tracing

Lecturer's Travel Log

Log each public space you visit.

Warn everybody if you test positive.

June 2021

TUE 15

12 PM

1 PM

2 PM

3 PM

4 PM

5 PM

6 PM

X4 Tutorial Group Meeting hc4cjxlr6gdqtr43gg9n7jph0o

Are you sure you want to LOG X4 Tutorial Group Meeting  
hc4cjxlr6gdqtr43gg9n7jph0on730fbn4

YES NO

Confirm (or move) the time to visit :

Recent

Spaces

Calendar

Gathering

👍

☆ ☆ ☆ ☆ ☆

👎

**Student perspective**



# Joining a tutorial



LCT v.3.30.22

Local Contact Tracing

QR Code

## Student's Travel Log

Gatherings

Not staying in a fixed location? Log moving groups to help protect your community

CREATE A NEW GATHERING

JOIN AN EXISTING GATHERING

X4 Tutorial Group Meeting [hc4cjqlrf6gdqtr43gg9n7jph0on730fbn4](#) ✕

Type in your already existing gathering, then log visit.

SELECT A TIME SLOT FOR:  
GROUP MEETING HC4CJQXLRF6GDQTR43GG9N7

Recent Spaces Calendar Gathering

Like Stars Dislike



LCT v.3.30.22

Local Contact Tracing

QR Code

## Student's Travel Log

June 2021 DAY

TUE 15

11 AM

12 PM

3 PM

4 PM

5 PM

Are you sure you want to LOG X4 Tutorial Group Meeting [hc4cjqlrf6gdqtr43gg9n7jph0on730fbn4](#) YES

Confirm (or move) the time to visit :

Recent Spaces Calendar Gathering

Like Stars Dislike




# Lecturer perspective





# Warning


LCT v.3.30.22




Local Contact Tracing

Lecturer's Travel Log

Log each public space you visit.

  
Warn everybody if you test positive.

 < > June 2021

TUE

15

12 PM

1 PM

2 PM

3 PM

4 PM

5 PM

6 PM

X4 Tutorial Group Meeting hc4cqxlrf6gdqtr43gg9n7jph0on730fbn4, 14 - 15

DAY

Are you sure you want to warn others?

This will send a red exposure warning to everyone you've shared space with

I'M SURE

NEVER MIND


Confirm (or move) the time to visit :






Recent


Spaces

Calendar

Gathering









**Student perspective**



# Warning someone at the gathering

LCT v.3.30.22

Local Contact Tracing

Student's Travel Log

Log each public space you visit.

COVID-19 Detected

Someone in your community has tested positive for COVID-19.

You will see an exposure alert next only if you shared the same space with that person.

OK

COVID-19 Exposure Alert

You shared space recently with someone who tested positive

Please get tested. If you are positive you can spread the virus - even if you are immune.

OK

Warn everybody if you test positive.

DAY

June 2021

12 PM

1 PM

2 PM

3 PM

4 PM

5 PM

6 PM

Ready

X4 Tutorial Group Meeting hc4cjqlrf6gdqtr43gg9n7jph0on730fbn4, 14 - 15

Recent

Spaces

Calendar

Gathering

Like

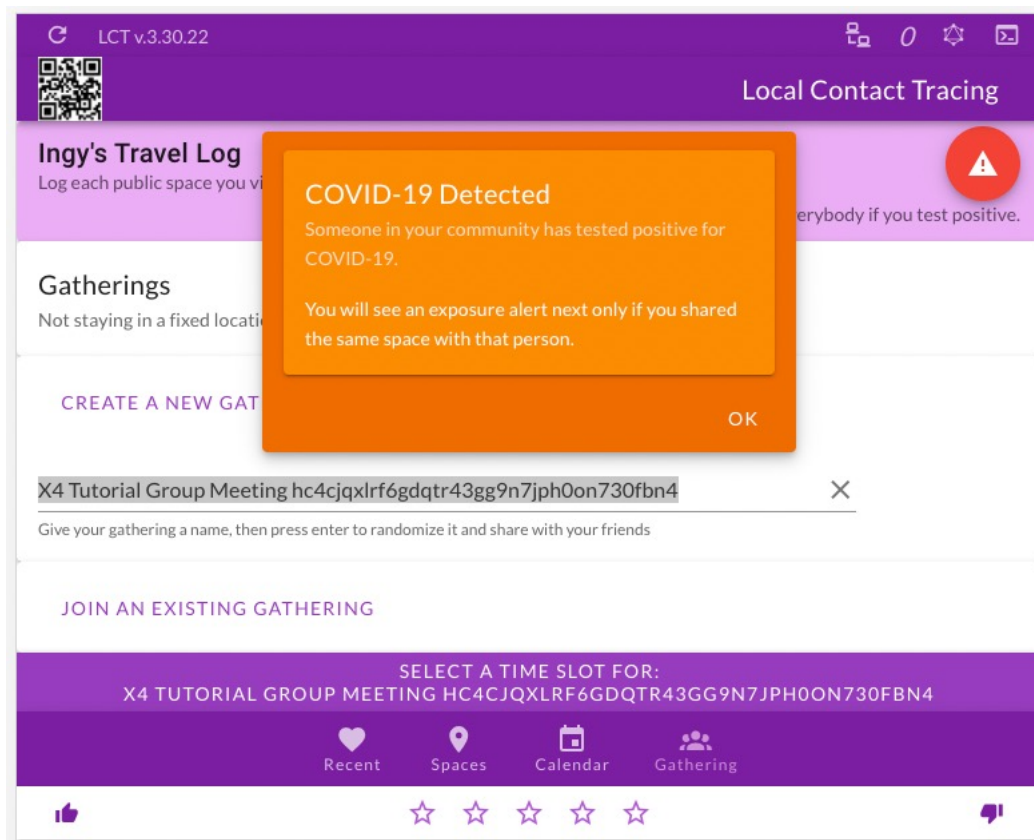
Stars

Dislike

**Other student perspective**



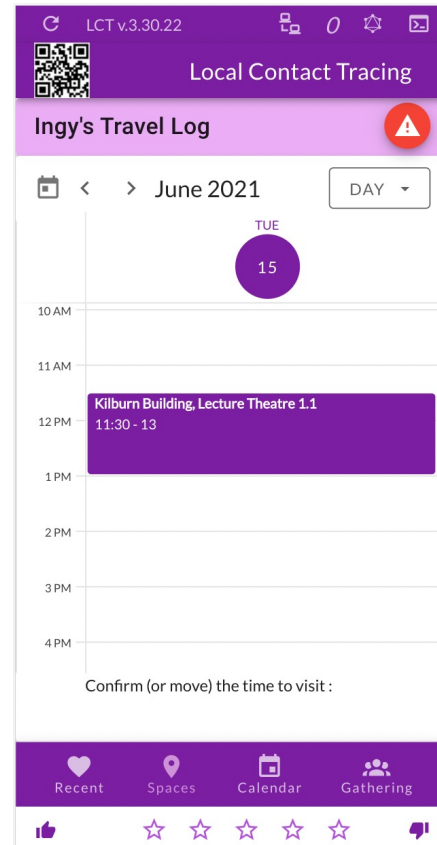
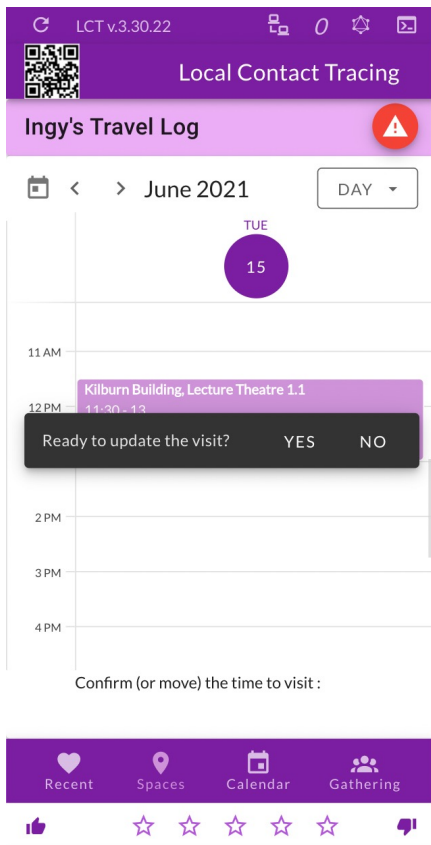
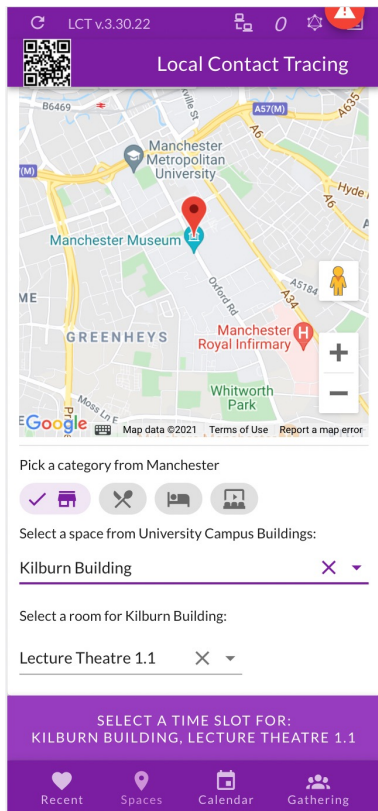
# Warning someone at the university



**Student perspective**



# Joining a Lecture



**USP**





# Why are we unique?





# What this would mean for UoM



# Useful links:

## To learn more:

### Demo of the LCT-C contact tracing system – YouTube

<https://youtu.be/cKdsue8HRQc>

### Our Portfolio – Imago Software

<https://imago.cs.manchester.ac.uk/our-portfolio/>

### Enduring Net – Intelligence For Humanitarian

<https://enduringnet.org/>

## Current versions:

### LCT-Sisters

<https://lct-sisters.herokuapp.com/>

### LCT-UoM

<https://lct-uom.herokuapp.com/>

***Any questions?***