

# Tracing Ireland's Population: Data Dictionary



This document presents a data dictionary of all data points used in the Tracing Ireland's Population (TIP) app and backend.

## App User Flow Data Questions

- When I download the app
  - What is stored by the Apple App Store or Google Play?
    - The fact that you downloaded the app and which device you downloaded it to.
  - What is recorded in my browser history?
    - If you follow the link in the application to the explanation or advice pages on the Tracing Ireland's Population (TIP) website, the address of the pages you visit will be recorded in the browser history on your phone.
- When I register
  - What is stored in the TIP database?
    - ✓ A pseudo anonymized app ID
    - ✓ Your phone number (encrypted)
    - ✓ Your county and Eircode routing key (first three characters of your entire Eircode)
    - ✓ Whether you are over 16 years old
    - ✓ Whether or not you are a healthcare worker
  - What is stored on my phone by the app?
    - ✓ A pseudo anonymized app ID
- When I have the app running what is monitored by my phone?
  - ✓ The performance of the application on the downloaded device.
- When I complete the symptom checker?
  - If I have no symptoms?
    - ✓ Whether or not you wear PPE in your workplace
    - ✓ Whether or not you have been named as a known close contact of a Covid-19 case
    - ✓ Whether or not you have been tested for Covid-19
    - ✓ If you have, on what date and what was the result
    - ✓ User asked how they feel physically at time of data submission

- If I have symptoms?
  - ✓ All questions associated with having no symptoms
  - ✓ Whether or not you have developed a new continuous cough, a fever, are experiencing an unusual shortness of breath, are experiencing a loss of taste/smell, have any other minor symptoms
  - ✓ The name of your usual doctor
  - ✓ The location of the doctor practice
  - ✓ Number of known close contacts in 48 hours prior to symptoms developing
  - ✓ Phone numbers of any known close contacts
  
- If I delete the app
  - What is still stored in the TIP database?
    - ✓ A pseudo anonymized app ID
    - ✓ All symptom data previously submitted
    - ✓ Time stamp of when last data was submitted
    - ✓ County and Eircode routing key
    - ✓ Estimated number of close contacts
  
- Who do we share your data with?
  - ✓ Anonymized and aggregated forms of your data will be used by university institutions to research the spread of the virus in Ireland
  
- How will my data be used?
  - ✓ To give an anonymous regionalised breakdown of Covid-19 symptoms. This will allow for potential regional clusters to be identified.
  - ✓ To allow general practitioners to establish how many individuals registered to their practice have Covid-19 symptoms. No individual is identifiable to the GP or TIP creators
  - ✓ To notify individuals of having contact with an individual with potential Covid-19 symptoms. The app user's identity will remain anonymous

## **What is the data retention policy?**

The close contact phone numbers will be removed from the database after 20 days of initial submission. Personal data is removed 20 days after the users last activity. The exact retention period of non-personal data has yet to be set. Aggregated and non-personal data about the spread of the virus is likely to be extremely valuable for researchers studying both this virus and understanding epidemic spread for the future. This data would be used by universities bodies only. We are, therefore, likely to retain this information for much longer, however this will be kept under review to ensure that it is not kept longer than is necessary.

Users will have an opportunity to remove the submitted data at any point they so wish to do so. This is done via a push notification sent directly by the user through the app.

If you wish us to stop processing your sensitive personal data, you may withdraw your consent at any time directly through the TIP application. We have included a push notification that ensures each user can flag the desire to have all associated data removed. In line with article 15 of GDPR, the user will be required to submit in writing this request so as we may validate their identity. This would avoid the inadvertent deletion of valid data where a request was put through by another person who gains access to the phone/app. If valid, this removal of data will be granted. The request may be sent to [support@tracingirelandspopulation.com](mailto:support@tracingirelandspopulation.com) When you withdraw your consent, we will delete all sensitive personal data we hold about you.

## Appendix: Variables Captured

Variable Name	Submitted by	Reason for Capture	Security Protocol in Transit
Over 16 years old	App User	Ensure consent	Encryption between users and phone and database
Telephone number	App User	Your mobile number allows for you to receive a One Time Passcode (OTP) as a security measure. OTP is a unique code sent to you by text message. Your mobile number will be encrypted and is not used for any other purpose. Please view our privacy policy for further details.	Encryption between users and phone and database
County	App User	Creation of county by county breakdown of user's symptoms	Encryption between users and phone and database
Eircode Routing Key (First three characters of Eircode)	App User	Geographical local of user's symptoms at Eircode routing key level	Encryption between users and phone and database
Healthcare worker (yes/no)	App User	Offers context of user and likelihood of being exposed to Covid-19	Encryption between users and phone and database
Is user required to wear PPE in work?	App User	Offers context of user and likelihood of being exposed to Covid-19	Encryption between users and phone and database
Has user been named as a close contact?	App User	Allows user to be directed to the correct HSE guidelines	Encryption between users and phone and database

Has user been tested for Covid-19?	App User	Offers context of user information being submitted	Encryption between phone and users database
If so, what was the date and result of the test?	App User	Offers context of user information being submitted	Encryption between phone and users database
How is the user feeling physically at time of data submission? (Two options: i) 'I feel perfectly fine' and ii) 'I don't feel quite right'	App User	Identifies whether user should continue through symptom checking process. If they answer ii), user is met with a thanks page.	Encryption between phone and users database
Has user developed a continuous cough?	App User	Symptom checker	Encryption between phone and users database
Has user developed a fever?	App User	Symptom checker	Encryption between phone and users database
Has user experienced a shortness of breath?	App User	Symptom checker	Encryption between phone and users database
Has user suffered loss of smell or taste?	App User	Symptom checker	Encryption between phone and users database
Has user suffered from fatigue?	App User	Symptom checker	Encryption between phone and users database
Does user have a sore throat?	App User	Symptom checker	Encryption between phone and users database
Does user have muscle aches?	App User	Symptom checker	Encryption between phone and users database
Does user have a headache?	App User	Symptom checker	Encryption between users

			phone and database
Name of usual doctor	App User	Daily emails to GP informing them of the number of patients registered to their practice currently experiencing symptoms. No individual is identifiable.	Encryption between users phone and database. Name of GP is 'masked'. Simply entire name is not visible in database.
Number of known close contacts user encountered in 48 hours prior to symptoms occurring	App User	Gives context to the social activity of the user prior to symptoms appearing	Encryption between users phone and database
Phone numbers of any known close contacts	App User	Contact any known close contacts. The identity of user who identified the close contacts remains anonymous.	Encryption between users phone and database.
Unique user ID	Automated	Pseudo anonymous user ID	Encryption between users phone and database
Time stamp	Automated	Identifies time and date data was submitted	Encryption between users phone and database
IP Address	Automated	Because of how traffic passes across the Internet, your internet protocol (IP) address is also inevitably transferred to our servers. Once your submitted information is transferred from your device to TIP servers, your IP address is removed	Encryption between users phone and database

		to ensure you are not identifiable.	
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