



UROP Checkpoint Presentation

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All code available on:
<https://gitlab.doc.ic.ac.uk/rb3018/urop>

Progress so far

Completed:

- **Problem 1.1** - Track changes in the configuration of Advertising ID
- **Problem 1.2** - Track changes in the configuration of hide device in Bluetooth settings
- **Problem 1.3** - Track changes of passcode/PIN for the smartphone's screen lock
- **Problem 1.5** - Detect if the user uses adblockers
- **Problem 1.6** - Detect if the user uses anti-virus apps

Milestones in progress



Problem 1.4

Detect if the user physically/manually covers her smartphone's screen when in public spaces

- Detects if an object is near to or far away from the proximity sensor
- **CHALLENGE:** how exactly should I determine if the user is in a public space? I could ask permission for location services so that I could determine the user's current location, but what can I do with that information?

Milestones in progress

Problem 1.7


Detect if the user uses VPN app(s) when connected to a public network

- Detects if the user is using a VPN app
- **CHALLENGE:** still not sure how to check whether the network is public or not

Problem 1.8

Detect if the user turns off WiFi when not actively being used

- Detects if the user turns off WiFi
- **CHALLENGE:** finding it hard to get access to **proc/net/tcp** in order to check whether there are any ongoing connections



<App Demonstration>