



# UROP Checkpoint Presentation

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

# Progress so far

## Completed:

- **Problems 1.1, 1.2, 1.3, 1.5, 1.6 -> finished and discussed last week**
- **Problem 1.7 - Detect if the user uses VPN app(s) when connected to a public network**

# 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
- Started work on geofencing - have made a GeofenceBroadcastReceiver, and am in the process of testing this
- Once geofences (my own version of Google's Trusted Places) have been tested, I can incorporate proximity sensor code and checking for foreground services (both already written)

# Milestones in progress

## Problem 1.8


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

- Detects if the user turns off WiFi (WifiBroadcastReceiver)
- In the process of getting access to **proc/net/tcp** in order to check whether there are any ongoing TCP connections
- Planning to use **netstat** and run Linux terminal commands in Java



## **Problem Set 2:**

**Could we go through the heuristics  
we might expect to need for each  
problem in Problem Set 2?**



**<App Demonstration>**