

Programming for security Assignment 2 – Group work

Please form groups of 3 – 4 people for this assignment.

Due date:

Present in last week of term. Submit by the 9th of June.

Summary:

Create a white paper and an application for contact tracing. i.e. working out who meet who and when.

Details:

The application must be capable of confirming when two people meet via their devices being in the same proximity.

Tasks:

(1) You must create a white paper that (a) details the approach that you are taking including sufficient technical details, (b) details the pros and cons of this approach (c) identifies security and privacy concerns with this response, (d) argue as to why your response is the most appropriate.

You must detail how you will collect data, where you will store data, how you will transfer data, likely attacks and how these attacks will be defeated or mitigated.

(2) You must also create an application. This application will include the user side and server side components. These components can be built to run on laptops rather than smartphones. This must be built to a stage where it can be demoed.

Rubric:

Satisfactory	Unsatisfactory
A complete white paper that details all the information described above	An incomplete white paper that does not detail, discuss all security concerns
An application that works	An Application that does not work
Arguments made for architectural decisions must be robust	Arguments for architectural decisions are not well formed
Must include the use of encryption for both stored data and transmitted data or a valid argument for not using either	Does not include the use of encryption for either stored data and transmitted data or a valid argument for not using either

Please provide me with details about your team by 30th April.