**CSE 535 Summer Assignment 1**

**Mobile Aided Contact Tracing**

**Part 1: Deadline July 22nd, 2020**

The objective is to develop an application that performs location logging of every user in a privacy preserving manner and it only allows you access to information when the user agrees after consultation with a contact tracing expert

Step 1: Make an UI for user log in with a password

There should be two fields one for username and another for password.

Step 2: Instantiate a database that is stored in the SD card of the smartphone

Step 3: Access the GPS for location data and obtain raw X,Y coordinates with time stamp.

Step 4: Collect this data every 15 mins.

Step 5: For each data collected store it in the database.

Step 6: Password lock the database with the password provided by the user at login

Step 7: Every 24 hr upload the database to the IMPACT Lab server at 10.218.107.121.

Step 8: Build a chat interface in the app through which a user can chat with a doctor to provide written consent of disclosing location information

Grading mechanism:

Create a video demonstration of your application showing execution of each step.

If all 8 steps are performed correctly 🡪 100

If only 7 steps are performed correctly 🡪 90

If only 6 steps are performed correctly 🡪 80

And so on