**Protocol for Collecting, Recording and Submitting Data using Google Play Services**

**1. Collect GPS data:** Open the app *Travel Tracker*, and enter your user ID. You’ll need to do this every time your phone restarts. Your ID can be the test phone number, your name, or any other information that can be used to identify you as the tester. The GPS data can be accessed through the url: http://<test\_phone\_number>gp.appspot.com/gaeandroid?query=1. Download the file as a tab-delimited text file to your local machine.

**2. Record Ground Truth:** Use the app *ODK Collect* to record any trips that you make and/or any activities that you engage in. If you use multiple travel modes to make a trip, record each leg of the mode chain as a separate trip. This applies to transit transfers as well (both inter-agency and intra-agency). Any time spent waiting at a public transit stop for a bus or train to arrive must be reported as a separate activity.

Select the option *Fill Blank Form* and select the form labeled *Travel and Activity Diary*. Follow the instructions on your screen to create a record. Make sure to upload your forms to the server periodically. The data can be viewed at: <https://travelactivitydiary.appspot.com>. Export the file as a CSV and download it to your local machine. **The timestamps recorded by *ODK Collect* are often wrong.** Go through the data manually to make sure that records corresponding to your data are correct. If they aren’t, change them so that they are. Otherwise, step 3 will not work as expected. If you forgot to record a trip or activity on *ODK Collect*, you can manually enter it as a separate record in the CSV file **in the same format** as the other records.

**3. Combine GPS Data with Ground Truth:** To combine the GPS data collected in step 1 with the ground truth recorded in step 2, use the script extractData.py, uploaded to the GitHub repository (<https://github.com/vijakshay/Travel-Diary>). Each tester should run the script for their data corresponding to a particular day, go through the resulting output manually to ensure that it’s correct, and then upload the data to the GitHub repository so we can use it for training our inference algorithms.