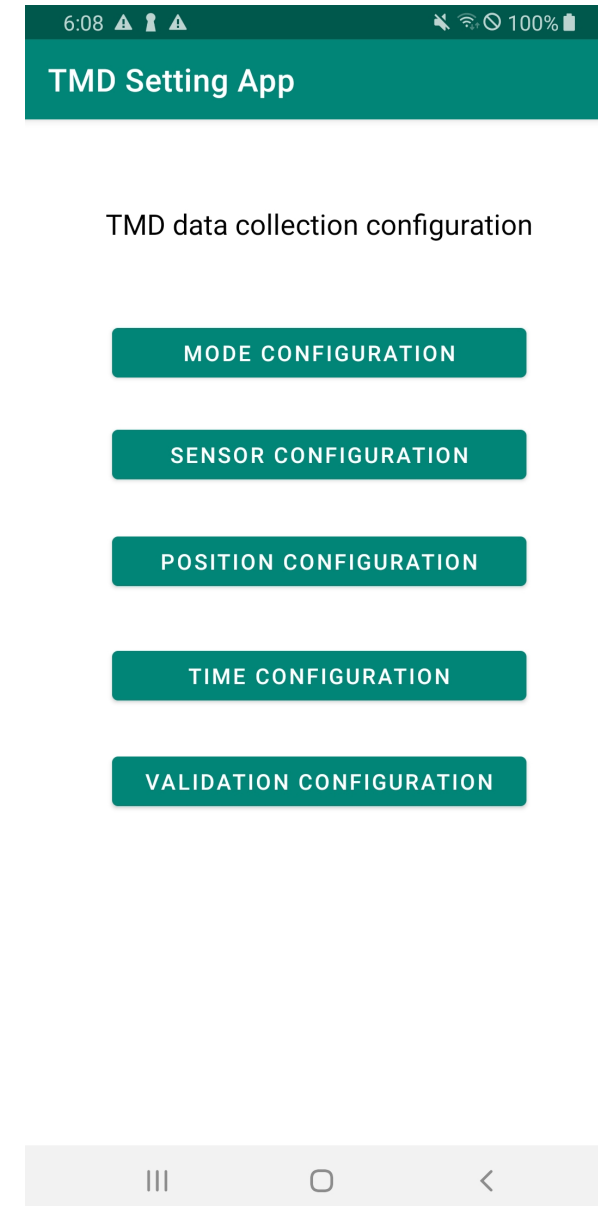
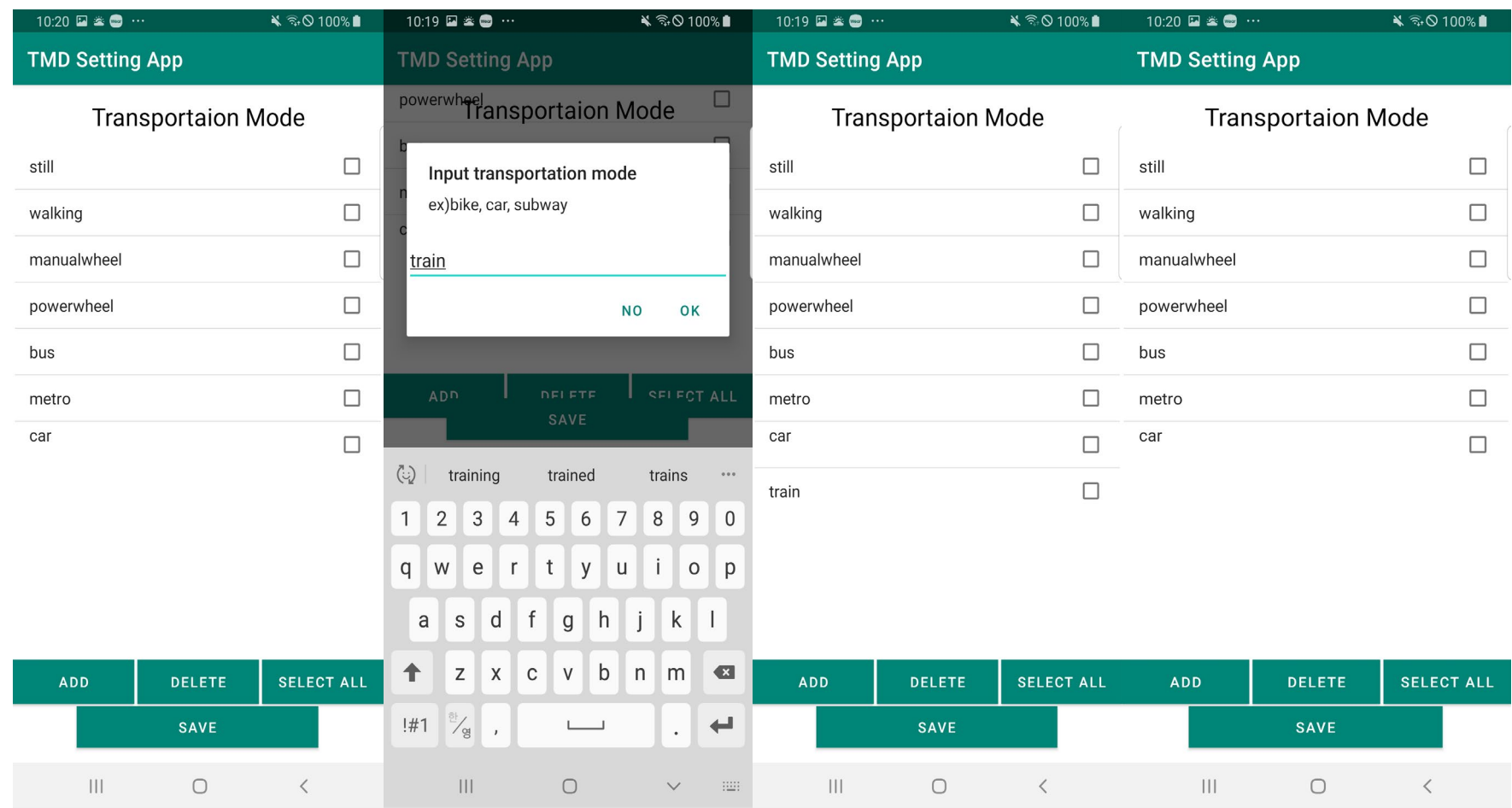


TMD Data Configuration App

Transportation Mode Configuration



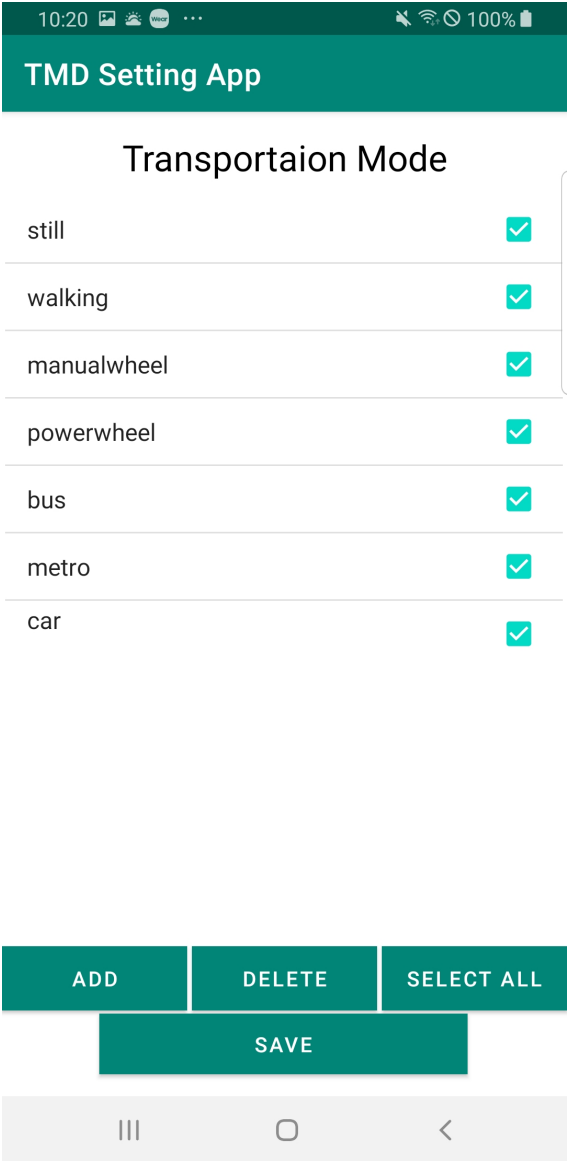
Transportation Mode Configuration



You can add and delete Transportation mode

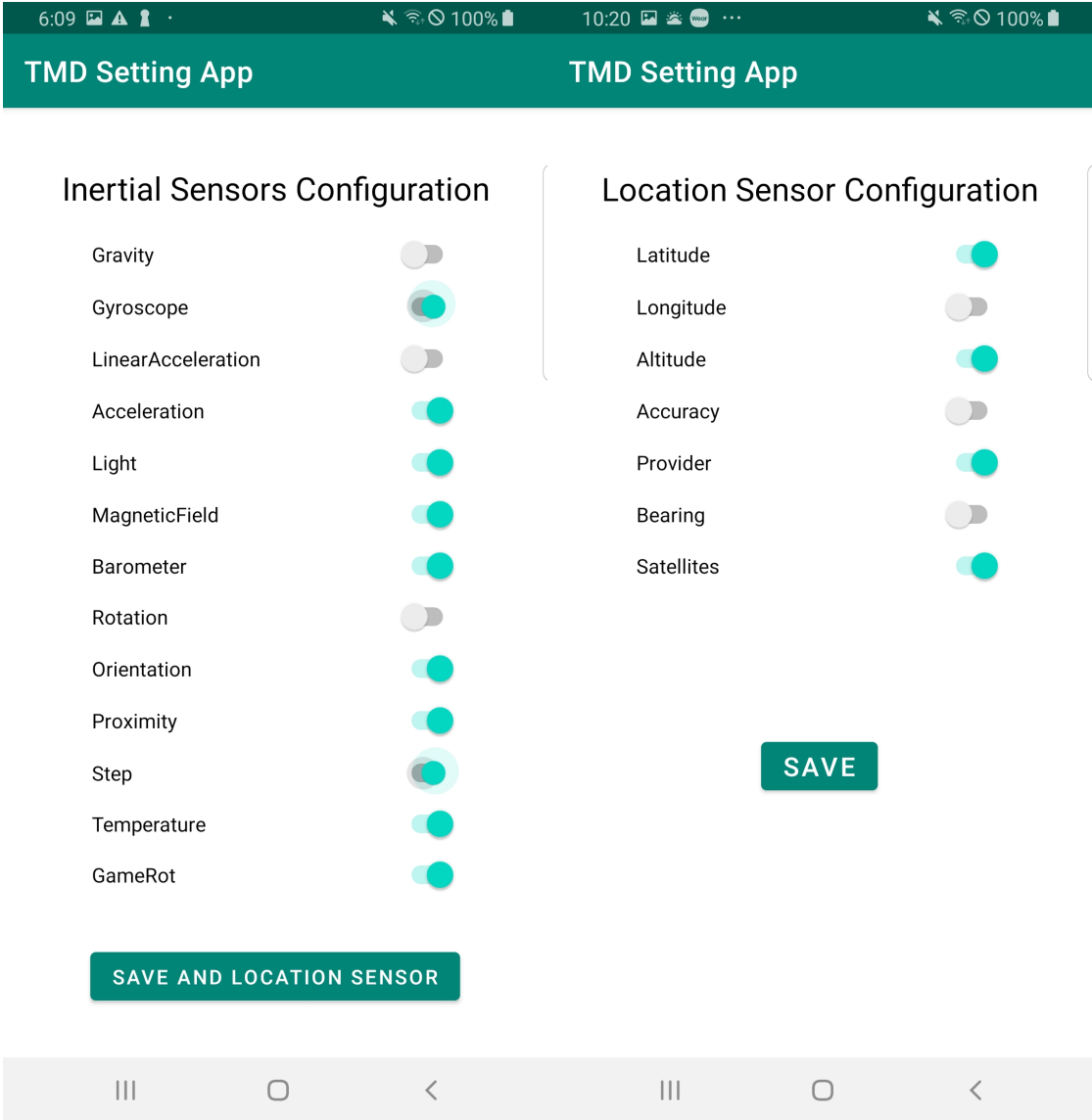
Transportation Mode Configuration

Before save Transportation Mode Configuration, you should select modes and click 'Save'.



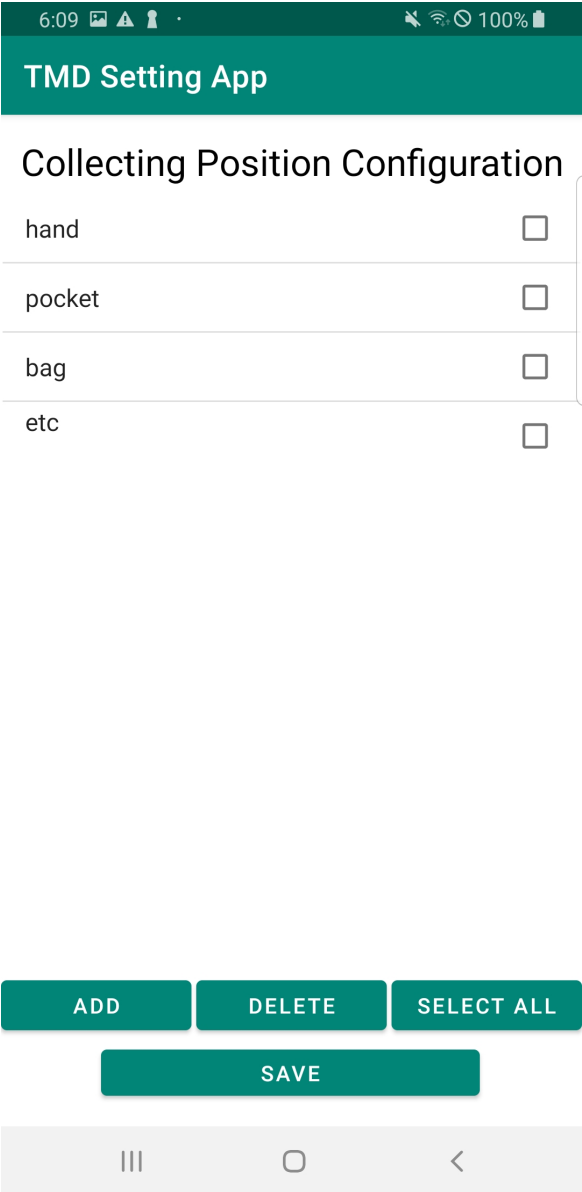
Sensor Configuration

You can turn on or turn off sensor that you want to record.



Collecting Position Configuration

You can add and delete data collecting position.
Like Transportation Mode Configuration, you should
select positions and click 'Save'.



Collecting Time Configuration

You can type collecting time and frequency of data recording.

The maximum and minimum value are below:

30 seconds \leq Data Collection Time \leq 1800 seconds

1Hz \leq Inertial Sensor Frequency \leq 60 Hz

1seconds \leq Location Sensor (every N seconds) \leq 60 seconds

* If a value greater than the maximum value or less than the minimum value is entered, it is replaced to the maximum value or minimum value.

The screenshot shows the 'TMD Setting App' interface. At the top, the status bar displays the time 10:21, signal strength, Wi-Fi, and 100% battery. The app title 'TMD Setting App' is in a teal header. Below it, the section 'Collecting Time Configuration' is enclosed in a rounded rectangle. It contains three settings: 'Data Collection' with a value of 30 and unit 'Second', 'Inertial Sensor' with a value of 30 and unit 'Hz', and 'Location Sensor' with a value of 5 and unit 'Second'. The 'Location Sensor' value '5' is currently being edited, indicated by a blue cursor. At the bottom right of the settings area is a teal 'SAVE' button. The bottom of the screen shows the standard Android navigation bar with back, home, and recent apps icons.

10:21 100%

TMD Setting App

Collecting Time Configuration

Data Collection

30 Second

Inertial Sensor

30 Hz

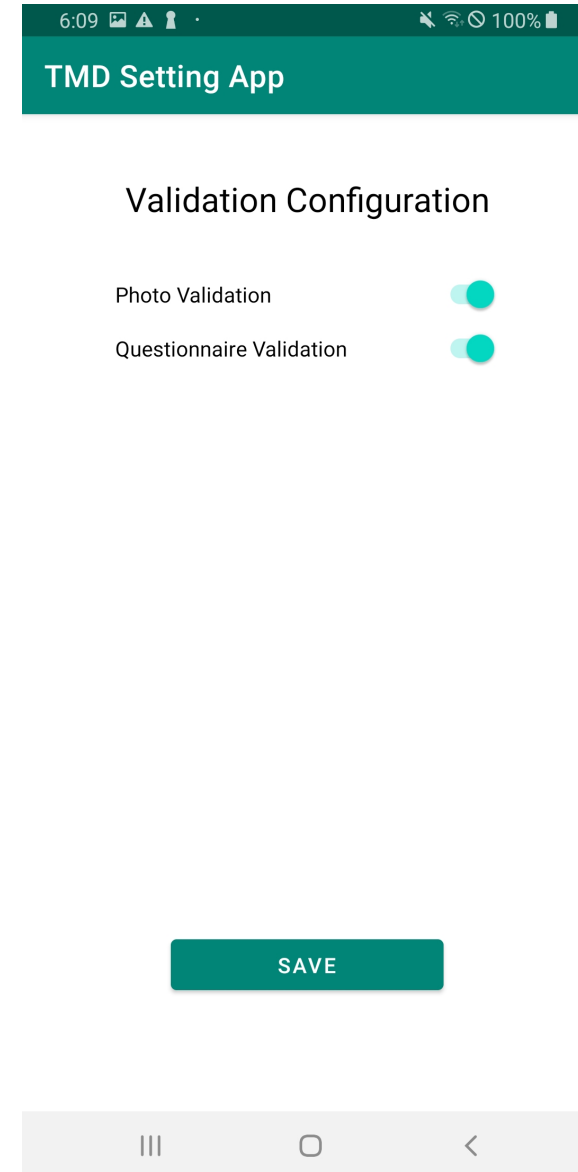
Location Sensor

Every 5 Second

SAVE

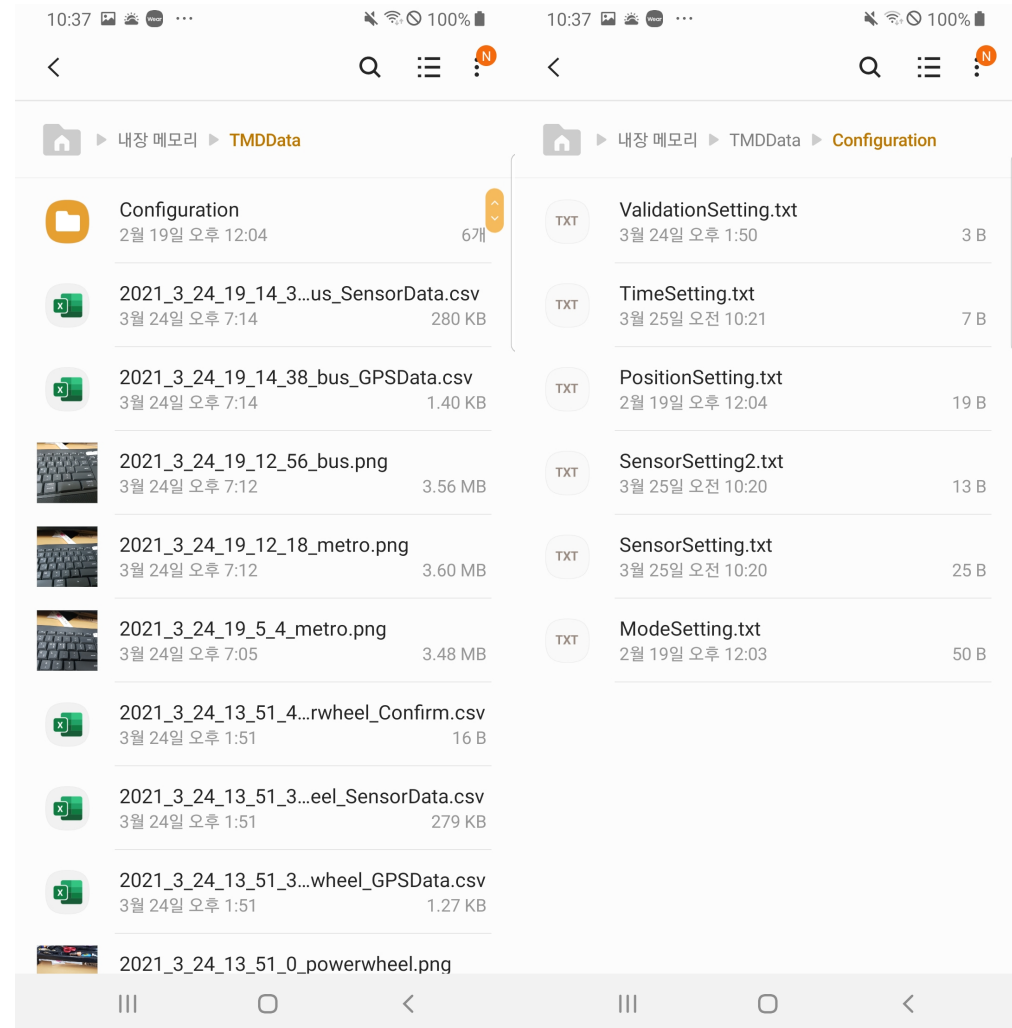
Validation Configuration

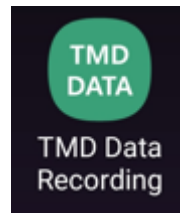
You can turn on or turn off Photo Validation and Last Questionnaire.



Configuration Resources

Configuration information is saved at
[Storage – TMDDData – Configuration]



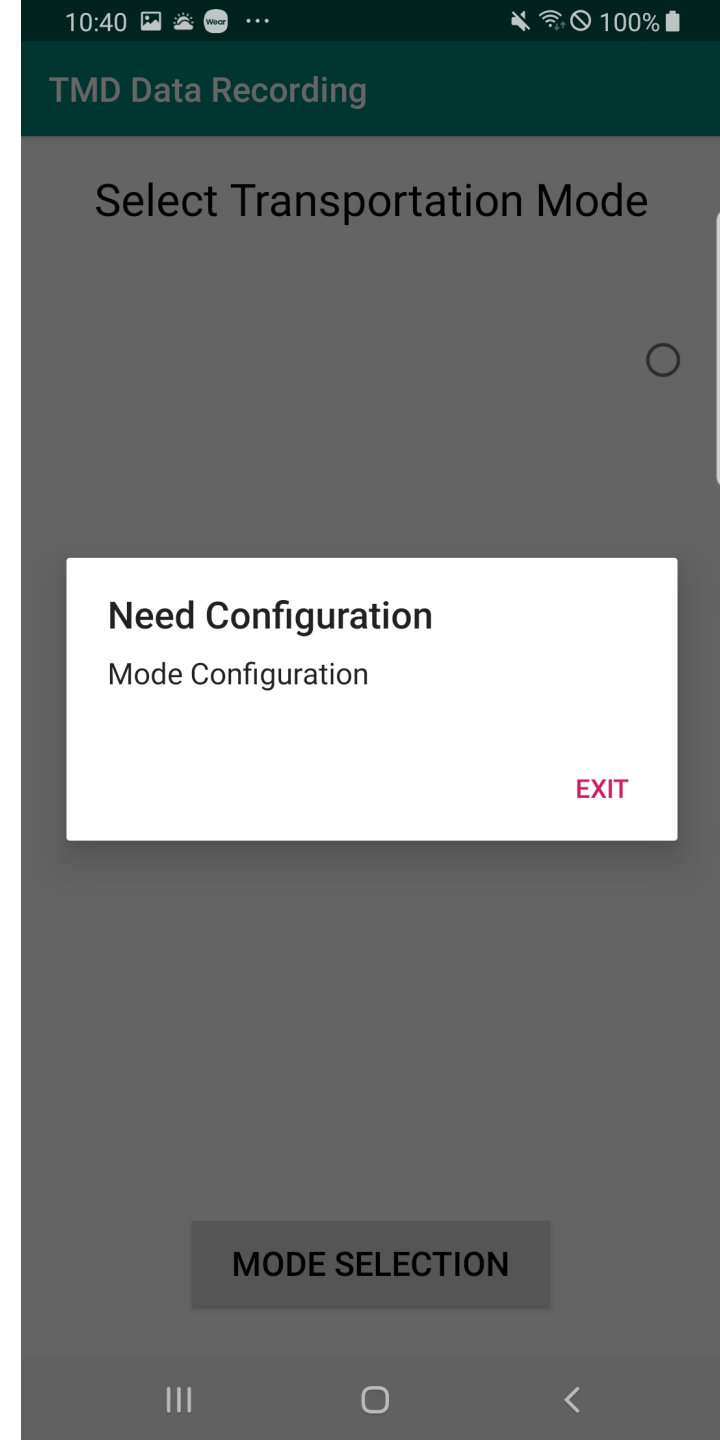


TMD Data Collecting App

Configuration Check

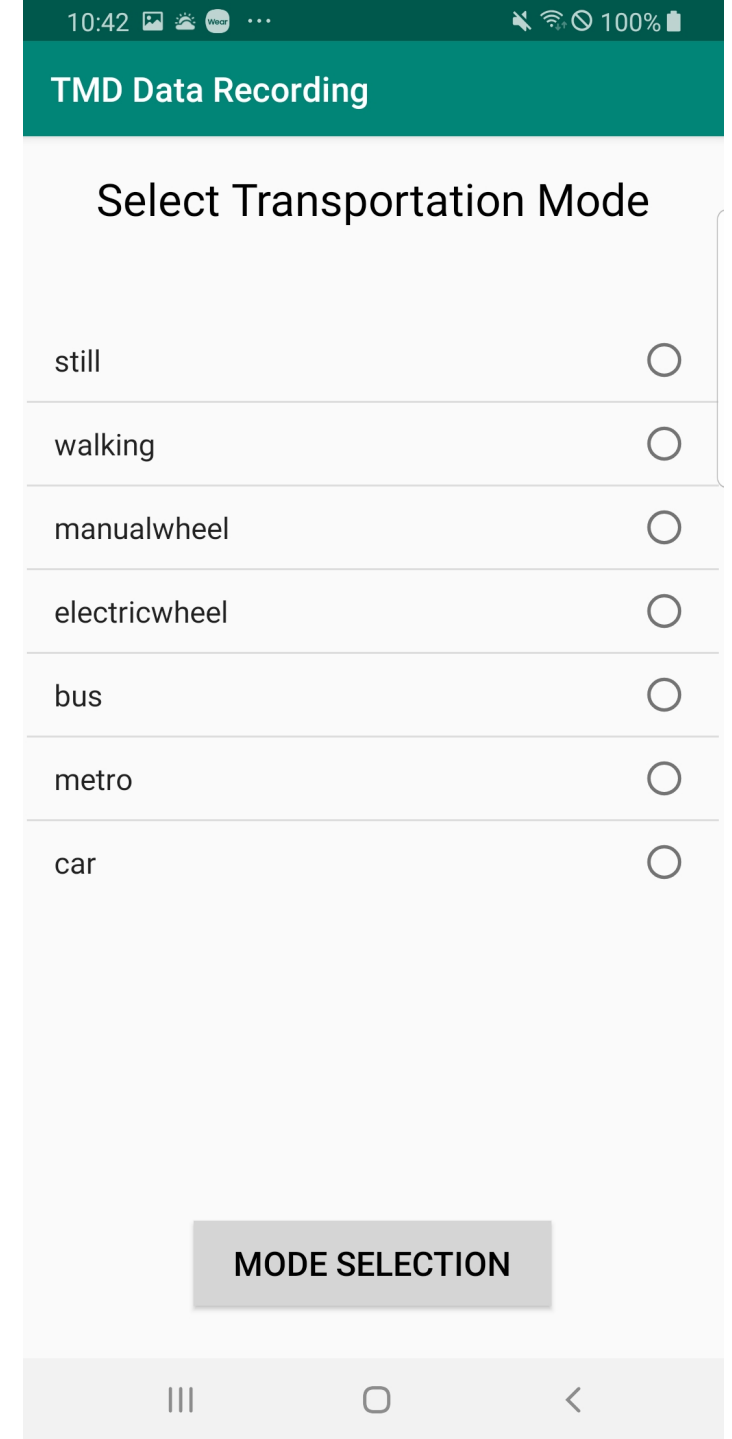
If any of the five configuration files are missing, an error will appear.

Depending on the Android version, the first time you run the program, the program may be automatically terminated due to data access rights. If you accept the permission request and run it again, it works normally.



TMD Data Collecting App (Mode Selection)

Choice transportation mode you want to record.



The screenshot shows the 'TMD Data Recording' app interface. At the top, there is a status bar with the time 10:42, battery level at 100%, and various system icons. Below the status bar is a teal header with the text 'TMD Data Recording'. The main content area is titled 'Select Transportation Mode' and contains a list of seven transportation modes, each with a radio button to its right: 'still', 'walking', 'manualwheel', 'electricwheel', 'bus', 'metro', and 'car'. At the bottom of the screen, there is a grey button labeled 'MODE SELECTION'. The very bottom of the image shows the standard Android navigation bar with three icons: a square, a circle, and a triangle.

Select Transportation Mode	
still	<input type="radio"/>
walking	<input type="radio"/>
manualwheel	<input type="radio"/>
electricwheel	<input type="radio"/>
bus	<input type="radio"/>
metro	<input type="radio"/>
car	<input type="radio"/>

MODE SELECTION

TMD Data Collecting App (Position Selection)

When recording data, choose where you want to recording.

10:47 100%

Select Collecting Position

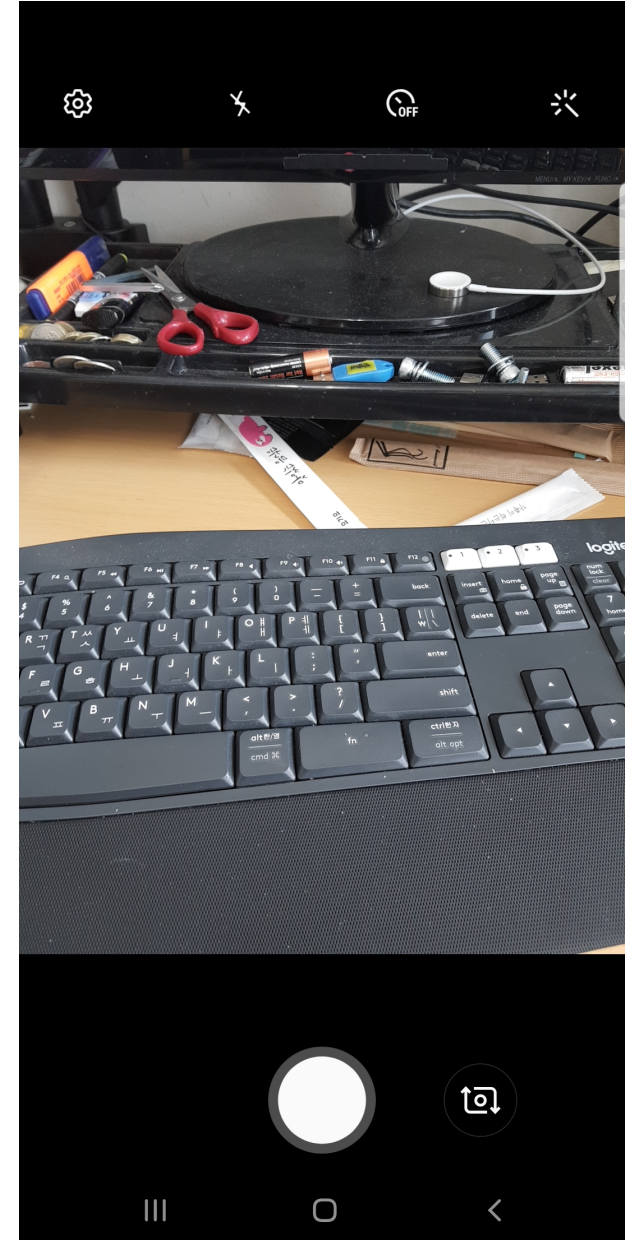
hand	<input type="radio"/>
pocket	<input type="radio"/>
bag	<input checked="" type="radio"/>
etc	<input type="radio"/>

POSITION SELECTION

TMD Data Collecting App (Photo Validation)

- Omitted according to configuration

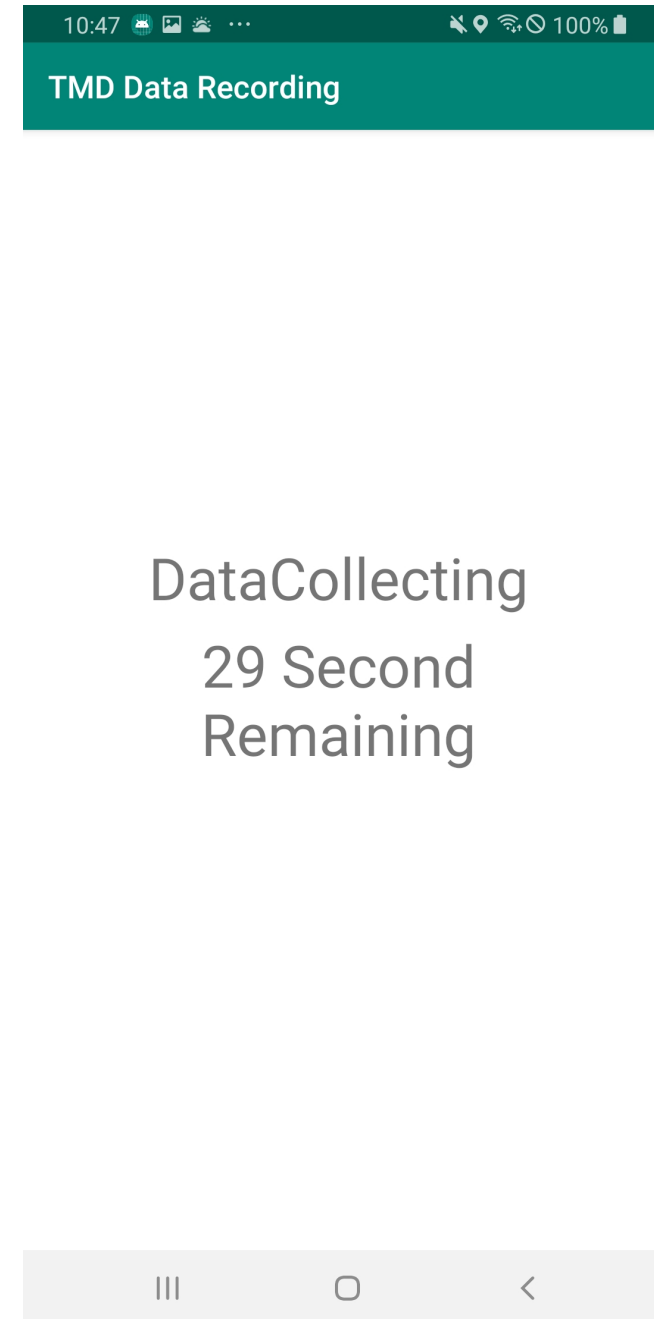
Take picture of transportation mode.



TMD Data Collecting App (Recording)

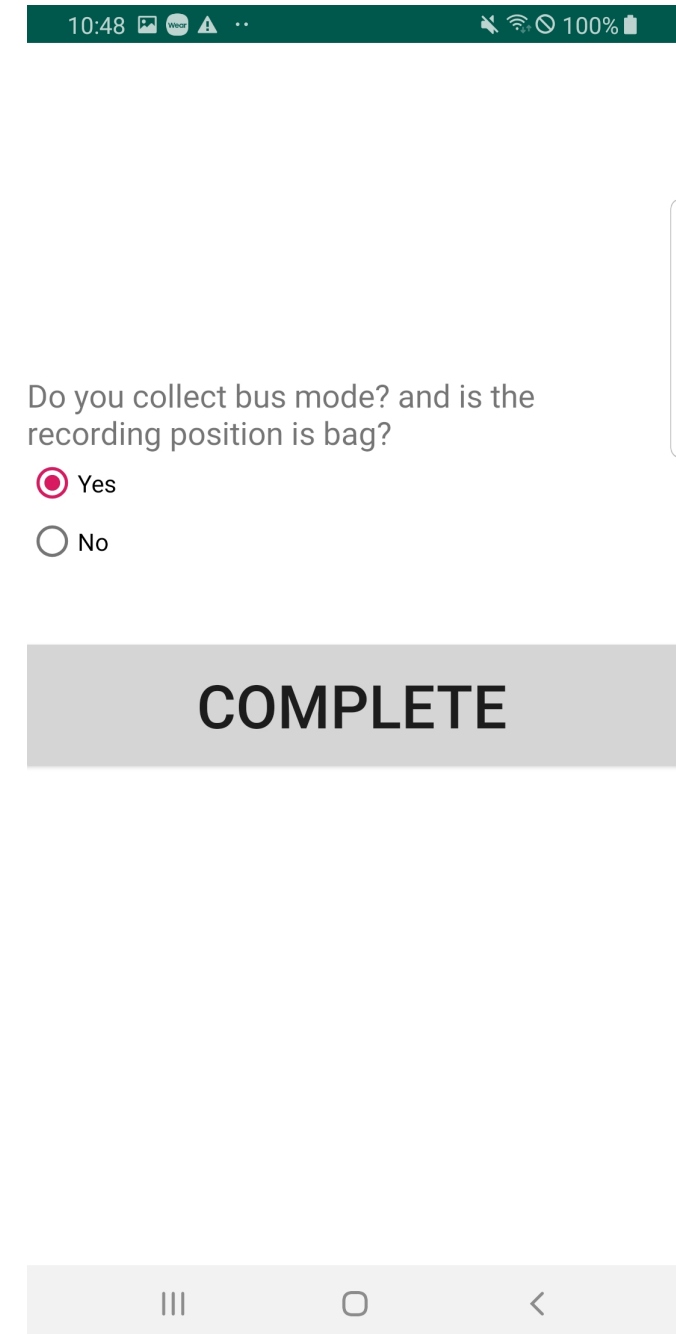
- Omitted according to configuration

Wait until alarm or vibration.



TMD Data Collecting App (Questionnaire)

When the recording is finished, a questionnaire appears.



10:48 [Icons] 100%

Do you collect bus mode? and is the recording position is bag?

☒ Yes

☐ No

COMPLETE

[Icons]

The screenshot shows a mobile app interface. At the top is a status bar with the time 10:48, various icons, and 100% battery. The main content area has a question: "Do you collect bus mode? and is the recording position is bag?". Below the question are two radio button options: "Yes" (which is selected, indicated by a red dot) and "No". At the bottom of the screen is a large grey button labeled "COMPLETE". Below this button is a navigation bar with three icons: a list icon (three vertical bars), a home icon (a circle), and a back icon (a left-pointing chevron).

TMD Data Collecting App (Data)

All data is saved in [Storage-TMDDData].

A total of 4 files are created for each recording, GPS, Inertial Sensor, photo, and questionnaire response.

All files are saved as .csv files.

For sensors not selected in 'Sensor Configuration', all values are recorded as 0.

- 2021_3_25_10_48_28_bus_Confirm
- 2021_3_25_10_48_11_bus_SensorData
- 2021_3_25_10_48_11_bus_GPSDData
- 2021_3_25_10_47_19_bus

[illegible]