Sensor data collection with mobile phone
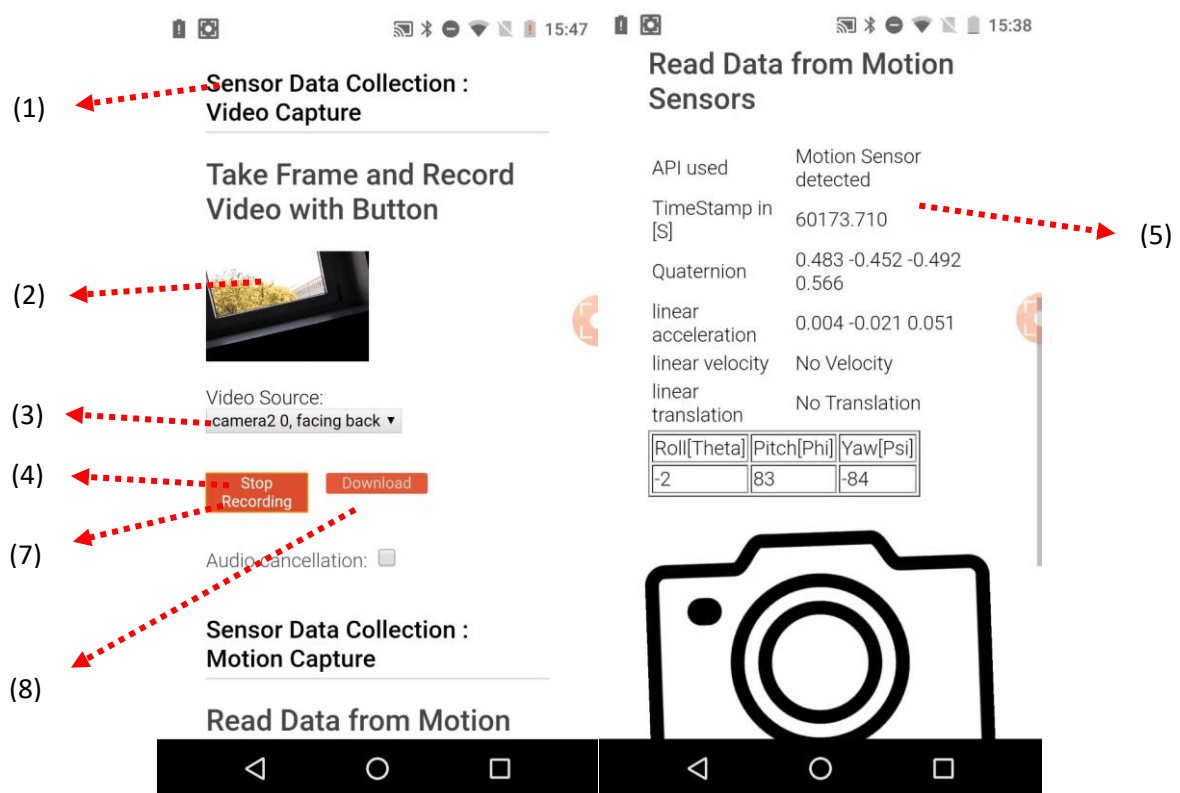
This web-app tool is used to capture image sequences along with the motion data, eventually it will return:

  1) An image sequence as video　　　　　-----> Sequence.webm

  2) Timestamp　　　　　　　　　　　　-----> Timestamp.txt

  3) Linear Acceleration of mobile device　　-----> Acceleration.txt

  4) Orientation of mobile device　　　　　-----> orientation.txt

  >>>> Web-App Link: https://tianlunhu.github.io/DataCollection <<<

Usage

(1) Open the Web-App interface with Chrome browser on an Android Device.

(2) Check if the camera is activated, enable the camera permission if it's not working.

(3) Select camera device if multiple resources are available, choose the one on the back side.

(4) Click "Start Recording" button to start the data collection process.

(5) Check whether the sensor readings are activated. If not, enable the sensor permission.

(6) Start Recording.

(7) Click "Stop Recording" button to stop processing.

(8) Click "Download" button to store the sequence and sensor data.

Notes

(1) This web-app currently is only compatible with android device.

(2) Please do not display excessive changes in view angle and fast scene transitions during recording.

(3) The "Sensor Data Collection: Network State" section can be ignored in this project.