

Class Descriptions:

MainActivity.java:

The main activity. This activity is the first activity the user sees when opening the app. It contains a list of all the measurements and displays them. It allows users to select a specific measurement to edit/delete it or create a new measurement.

AddOrEditMeasurement.java:

The add or edit measurement activity. In this activity a user can add, edit, or delete a measurement. It guides the user through the experience through making data entry as easy as possible for them and alerts them if they did not fill in a field correctly. Once completed the results are stored into the database.

Measurement.java:

The measurement class defines the structure and functionality of a measurement, it only contains, a constructor, getters and setters, and a toString method. The measurement class is used to fully define a measurement.

DataStorageManager.java:

This class is used to store all of the data needed for the app. All data is stored in a text file as a json string using the Gson class.

Validifier.java:

The Validifier class determines if the inputted data is of correct form and is able to communicate if an input set is valid, and if so, send the corresponding message. If the input is not valid then it indicates the highest order field which is incorrect. (Highest order is determined by position on form, highest is date, lowest is comment).

MeasurementRecyclerAdapter.java:

This class handles the RecyclerView which displays the list of measurements on the main activity. This class is responsible for the binding of the data to visual elements. It also starts the transition to the edit measurement activity. It also indicates abnormal measurements by highlighting them as red.

Note:

More detail for each class can be found in their respective java files, as all methods in these classes are documented in the form of comments in the code.