BatteryLoggerApplication

+batteryLog: ArrayList<LogEntry>

+getBatteryLog(): ArrayList<LogEntry>
+loadLogEntries(): ArrayList<LogEntry>

+deleteLogEntry(position:int,ctx:Context): boolean

+saveLogEntries(ctx:Context): void
+getTotalOverallBatteryUsed(): double

+getTotalBatteryTime(): int
+getEnergyRate(): double

This class contains the overall log, which is a list of entries. It assumes the relationship from the specifications as composition. That is, no application, no log. The class is responsible for calculating the totals and averages for the entire log. The class is also responsible for handling the file I/O for the log.

LogEntry

+description: String
+startPercentage: double
+endPercentage: double

+duration: int
+date: Calendar

+toString(): String

This class represents a single log entry. It contains all the data for a single log entry, and provides a method to show its content in a String representation.