package com.example.mwltrackapp.Analysis;  
  
import android.util.Log;  
  
import com.example.mwltrackapp.Data.DataInfor;  
import com.example.mwltrackapp.Data.DataParser;  
  
import java.text.ParseException;  
import java.text.SimpleDateFormat;  
import java.util.ArrayList;  
import java.util.Date;  
import java.util.List;  
  
public class MWLRatingAnalyzer {  
 private static final String *TAG* = "MWLRatingAnalyzer";  
 private static List<String> *MWLRating* = new ArrayList<>(); // Define and initialize the list  
 private static List<String> *duration* = new ArrayList<>(); // Define and initialize the list  
  
 public static void analyzeMWLRatings(List<DataInfor> ratingEntries) {  
 for (int i = 0; i < ratingEntries.size(); i++) {  
 DataInfor currentEntry = ratingEntries.get(i);  
  
 if (currentEntry.getMWLRating() != null) {  
 String currentDateStr = currentEntry.getMonth() + " " + currentEntry.getDay() + ", " + currentEntry.getYear();  
 String currentTimeStr = currentEntry.getTime();  
 int currentMwlRating = Integer.*parseInt*(currentEntry.getMWLRating());  
  
 if (i < ratingEntries.size() - 1) {  
 DataInfor nextEntry = ratingEntries.get(i + 1);  
 String nextDateStr = nextEntry.getMonth() + " " + nextEntry.getDay() + ", " + nextEntry.getYear();  
 String nextTimeStr = nextEntry.getTime();  
  
 SimpleDateFormat format = new SimpleDateFormat("MMM d, yyyy HH:mm:ss");  
 try {  
 Date currentDate = format.parse(currentDateStr + " " + currentTimeStr);  
 Date nextDate = format.parse(nextDateStr + " " + nextTimeStr);  
 long durationMillis = nextDate.getTime() - currentDate.getTime();  
  
 double durationHours = (double) durationMillis / (60 \* 60 \* 1000);  
  
 *MWLRating*.add(String.*valueOf*(currentMwlRating));  
 *duration*.add(String.*format*("%.1f", durationHours));  
  
 Log.*d*(*TAG*, "Date: " + currentDateStr);  
 Log.*d*(*TAG*, "Duration: " + String.*format*("%.1f", durationHours) + "h");  
 Log.*d*(*TAG*, "MWL Rating: " + currentMwlRating);  
 } catch (ParseException e) {  
 e.printStackTrace();  
 }  
 }  
 }  
 }  
  
 // Log the content of MWLRating and duration lists  
 Log.*d*(*TAG*, "MWLRating List: " + *MWLRating*.toString());  
 Log.*d*(*TAG*, "Duration List: " + *duration*.toString());  
 }  
}