



Fig. 7. The use case diagram.

3.4.3 Class Diagram

This section contains the class diagram of my application in its final form, presented in Figure 8, with all the changes introduced throughout the project. The diagram is slightly simplified, it does not include any methods or fields for any of the classes as this would simply make it much more difficult to comprehend it. Instead, it presents classes with their respective packages and the relationships they share among themselves. Apart from the diagram itself, I will also add short descriptions of packages and classes to complement it.

Package `android.aberplayer` contains the two singleton classes I used in the project as they did not seem to fit in anywhere else.

CurrentSongList class is a singleton class which holds and handles the list of .flac files which are songs on the current list of played songs. It will be used by some of the Activity classes to set the list of songs currently played, e.g. an album or a directory. The list will be changed and the data it holds will be accessed by various parts of the application.

SongList class is a singleton class which holds the list of Song objects which are scanned from the .flac files on the SD card. Its purpose is basically the same as CurrentSongList's, however it will hold the data of all songs available, not just the ones currently being played.