4 Implementation

This chapter contains the description of the implementation stage of this project. I will explain in detail my implementation strategy, as well as any problems I found particularly difficult to solve or algorithms I felt necessary to write about – if they make a difference to my application. For certain features, I will also highlight the amount of time I needed to develop them, especially if it took too long.

4.1 Implementation Strategy

It is important to describe in detail my plan of implementing all of the features to be able to see which of them caused the development of my project to lag behind. The dates included are mostly accurate, though it has to be said that from time to time it was necessary to return to an already implemented feature in order to improve or enhance some of its parts, for example to make it co-operate with a different one. What is more, the "Actual completion date" will not always mean that a feature's implementation was completed and the feature itself is working – rather than that, it indicates when the work on the developing the feature was finished, regardless of the result; sometimes it was actually necessary to make a trade-off by abandoning working on one feature which was taking too much time so that another feature could be implemented.

Figure 22 below is a table based on the weekly plan for the project included in my progress report.

Fig. 22. Weekly plan for the project.

Feature name	Description	Planned	Actual
	-	completion date	completion date
Basic GUI	Three most required	23rd January - 27th	27th January
structure	Activities:	January	
	MainActivity,		
	SelectDirectoryActivity,		
	PlaySongActivity		
File browser	SelectDirectoryActivity	30th January - 3rd	3 rd February
	should have a basic file	February	
	browser		
FLAC support	The application's core	6 th February – 10 th	13 th Feb
		February	
Handling song	Play, pause, stop,	13 th February –	20th Feb
	rewind, FF	18 th February	
List of songs	Means of playing	20 th February –	24 th February
	several songs from the	24 th February	
	chosen folder/list		
Extract metadata	Song's title, artist, etc.;	27 th Feb – 2 nd	5 th March
and stream data from FLAC files	also length of song	March	
Progress bar Seek bar	Progress bar for	5th March - 9th	8th March
	currently played song	March	
	Turn progress bar into	12th March - 16th	25 th March
Musical	seek bar	March	
Music data	Song, Artist, Album and	19th March - 23rd	27 th March
structures	Genre classes	March	
Scan SD card	Create a Service to scan	26th March - 30th	30 th March
	the SD card in search	March	