**IB Dossier Criterion A**

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Period 2b

**Problem:**

Listening to music in class is a huge problem, because school officials do not allow for the installation of programs form the internet, students are not going to be able to listen to music. Creating a program that can be used anywhere without the installation of any files and because the code is going to be written in java it will be able to be used on mac, windows, and Linux. The program will be easy to use, and be able to use without the use of documentation. The program needs to be able to input mp3 file in order to increase the song collection. The program will also have advanced features such as playlists and favorites, and sorting. My Computer Science teacher will be my supervisor and my classmate will be my tester and client for the project.

**Rationale for solution:**

The reason for making this project is to help students listen to music without the installations of any files, which would allow students to listen in class. This program needs to be simple to use because most mp3 players have complicated interfaces, enabling most end users to be confused. The simplicity of the interfaces of the program will allow clients to be able to use to program without any documentation about the program.  
 I am going to use Java to Program because

* It has a flexible graphical user interfaces
  + Allowing for simplicity of the interface.
* Java is multiplatform
  + Enables the program to run on
    - Mac
    - Windows
    - Linux
  + Java is a free download from <https://java.com/en/download/index.jsp>
* Java has an api that allows mp3 files to be played.
* There is a lot of documentation to help the programmer program the project, which helps speed up the process.
* Changing code in java is an easy solution allowing for the client to give back feedback and ensure that the feedback is going to make it in the final project.

**Criteria for Success**

* The interface is easy to navigate and easy to understand.
* The program must allow for the input of mp3 files from any location on the computer
* The program must have an ability to create playlist
* The program must have an ability to sort songs in playlist
* The program must have an ability to create a favorites playlist
* The client will be able to ask the program for information about the song they are listening to and the composers.

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