## Revised Product Backlog

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| **Feature** | **Story** | **Initial priority** | **Task** | **Estimate** | **Implementation notes** |
| Implementation for creating a playlist | The user should be able to create a playlist from the current library of songs in blocks of 1 - 3 hours each. | High | A linked list will be implemented that will contain the desired songs for a playlist and will be used to save the playlist. It will then be read into a queue to be played. |  |  |
| The song queue will have limitations that require the total time of all songs to be between 1 to 3 hours. Otherwise the queue will not be able to be playable. |  |  |
| The admin should have the ability to limit songs from being selected. | High | The user classified as the administrator will be able to select a button on the song library that will allow the admin to select songs for restricted access. |  |  |
| When browsing the song database, users should have the ability to organize the songs from the library in a particular classification, such as; band, genre, year and future classifications. | High | A drop down menu will be implemented for any classification necessary, with a list of options. A selection of options should accurately search the list and find songs which are of those properties. |  |  |
| A tool bar will be implemented which contains the menus and allows for expansion for future classifications menus. |  |  |
| The playlist creation tool should suggest songs from the database that are similar to the history of the users. | Low | The tool will do a smart search which will take the users previous selections of songs, dissect its traits and compare them to other songs in the database, actively displaying the results to the user. |  |  |
| The user should have the ability to fill the playlist with a random assortment of songs given particular classifications by the user. | Low | The randomizing tool will be available somewhere near the top of the song browser GUI, with check indicating it is active |  |  |
| While the tool is active, a set of classifications will be available (genre, musician, mood) and are selectable. |  |  |
| The queue auto fills with randomly selected songs, without repeat, if possible. The songs must follow the restrictions set by the user. |  |  |
| Playlist, songs and users should have an array of statistics/analysis tools | The user should be able to retrieve statistical info about any song in a playlist, such as its relative frequency within a time period selected by the user. | High | Next to every song, a statistics page button will be available to bring them to a page with that songs stats |  |  |
| A relative frequency stats section will be available and it will have a time frame selection by utilizing a Google calendar. The songs relative frequency in that time period will be displayed as a line graph with the y-axis being relative frequency in percentage and the x- axis representing time. |  |  |
| A log of the songs played by users should be available to other users, with customization to time frame. | Med | A list will be created for every user, with basic information of each song that they have played. |  |  |
| A time frame can be selected from a drop down menu containing time frames such as; 1 day, 1 week, all time etc. |  |  |
| There should be a statistics page which contains stats about song, musician and genre selections per user, as well as the frequency the user accesses the song database | High | A statistics page will be automatically created for each user account created. |  |  |
| Pages of stats will be available on the user’s stats page, with a tool bar located to the left to select the desired page. The side bar must be customizable |  |  |
| Playlists must have the ability to be modified. | The user must be able to edit already made playlists in their saved playlists collection, but must keep the time length between 1 – 3 hours. | High | Since saved playlists utilize a linked list, adding, removing and general reorganization of a playlist will done using typical list modifications algorithms such as changing required pointers from song to song. |  |  |
| The user should have the ability to make modifications while the playlist is currently active. | High | Currently active playlists utilize a queue, so a user will have the ability to designate an upcoming song to be skipped with a button on the GUI. |  |  |
| The queue will accept additions to the playlist on the fly by adding any new songs to the end of the queue. |  |  |
| Every DJ should have a personal profile | The account should have the ability to save any of the user's playlists for future use. | High | Each user will be given a hash table upon creation of an account which will store all of the user’s playlists. The keys for each table will be the user’s unique user name in conjunction with a unique playlist name per playlist. |  |  |
| A DJ profile should have the potential to be classified as an administrator | Med | For each current user, the head administrator will be able to access a ‘make admin’ option in the user’s options pane. |  |  |