**Assignment:** Group Coursework **Module:** ECS713P - Functional Programming - 2022/23

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1. Project Summary

This is a CLI Haskell Application used to fetch and parse data from the Apple iTunes API, while performing various operations like inserting, selecting, and modifying the database entries.

The Main Functionality is as follows:

* Get Data from the Apple iTunes API and add it to a local SQLite Database
* The songs can be fetched using 2 search criteria, namely by Artist Name and by Genre Type
* List all the available values for Artist Name and Genre Type, which have already been downloaded
* Search and list the values from database for all songs of a specific genre
* The user may choose to create a Playlist, to add specific songs to his/her playlist.
* Multiple operations like, Creating, Updating, Deleting songs to the playlist are possible

1. User Manual
   1. Compiling the Project

The program is compiled by executing the following command via the terminal, in the same directory where the ‘haskell-project’ is present

***>stack clean (this is an optional, but good to execute command)***

***>stack build***

* 1. Executing the Project

The program is run/executed by running the following command via the terminal, in the same directory where the ‘haskell-project’ is present  
 ***>stack run***

* 1. Functional Details
* Main Screen

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***Welcome to the Music app***

***(1) Get New data by Genre or Artist***

***(2) List all the available Genres***

***(3) List all the available Artists***

***(4) Search Songs by available Genre***

***(5) Playlist Operation***

***(6) Quit Appliaction***

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***Choose an option :***

* Playlist Operations

***----------------------------------***

***Playlist Operations Available***

***(1) View Playlist***

***(2) Add Songs to Playlist***

***(3) Delete Songs from Playlist***

***(4) Return to Main Menu***

***(5) Quit***

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1. Project Modules
   1. CustomMethodsCreated.hs
   2. Database.hs
   3. Fetch.hs
   4. Parse.hs
   5. Types.hs
2. Extra Features

* Sjadjadskl
* Testing via ‘stack test’. Spec.hs
* lnadsldsnkljl

1. APIs Used and ‘Defaults’ of these API

* Askdklads
* [dnlndklklas
* Asnkladskln
* Nasklnklads

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter Key | Description | Required | Values |
| term |  |  |  |
| primaryGenreName |  |  |  |
| entity |  |  |  |
| country |  |  |  |
|  |  |  |  |

The report summarizes, ………..