Music Playlist Editor HTL Grieskirchen

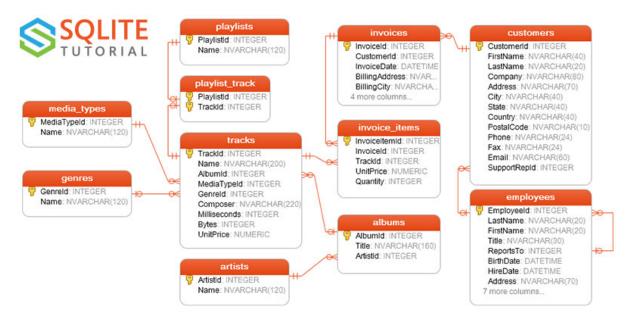
Music Playlist Editor

Introduction

Create a simple web application to manage **tracks** for **playlists**. Implement the backend using **Node.js** and **Express** and the frontend with **Angular**.

Task 1

The following database diagram illustrates the **Chinook database** tables and their relationships (Source: SQLite Tutorial)



Download the required **CSV-Files** from the following URL:

https://github.com/dwhoman/chinook-database/tree/master/ChinookDatabase/DataSources/csv Load the ones needed for this exercise when launching the backend application. You can keep the data in memory.

Task 2

Implement the following RESTful API using **Node.js** and **Express**. Use the REST Client Plugin in Visual Studion Code to test your backend.

Get all playlists

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```
GET http://localhost:8000/api/playlists
Content-Type: application/json
### Get tracks for a playlist
GET http://localhost:8000/api/playlisttracks/5
Content-Type: application/json
### Get available genres
GET http://localhost:8000/api/genres
Content-Type: application/json
### Get tracks for a certain genre
GET http://localhost:8000/api/tracks?genreid=5
Content-Type: application/json
### Add a new track to a playlist
POST http://localhost:8000/api/track
Content-Type: application/json
{
    "playlistid": 5,
    "trackid": 10
}
### Remove a track from a playlist
DELETE http://localhost:8000/api/track?playlistid=5&trackid=10
Content-Type: application/json
```

Task 3

Implement the following frontend. Your user interface does not have to look exactly as shown below -- please concentrate on the requested functionalities!

Playlist Editor



• Fill the selectbox "Playlist" with all available playlists in the OnInit method

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 As soon as a playlist is selected, the button "Add new track" becomes available and the list of tracks is shown

Playlist Editor



- · Sort the tracks by name
- Update the fields Number of tracks and Total playtime accordingly
- Convert the milliseconds per track into a reasonable format
- You can remove a track from the selected playlist by clicking on the trashcan icon
- If you click on the Add new track button, the following should be displayed:

Playlist Editor



After selecting a genre, the Track combobox becomes available, listing all the available tracks
of the selected genre



After selecting a track, the Add button becomes available

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• When clicking the Add button, the selected track is added to the playlist and the area to add a new track is hidden

Playlist Editor



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