DMIT-2018 / 2018-sep-2022-e01-workbook-dwelchnait Public

Code Issues 3 Pull requests Actions Projects Security Insights

# Demonstration the issue documentation for OLTP Planning #2

New issue

Open 5 of 9 tasks **dwelchnait** opened this issue 6 days ago · 4 comments

Assignees 

Labels documentation

Milestone Sample desired OL...

**dwelchnait** commented 6 days ago • edited Collaborator

This task list area will be completed once the implementation plan has been outlined. This area is where one creates the task list that is associated with the milestone. The tasks that are outlined in this area, are the tasks that are counted for the milestone.

- [x] Create Data Models
  - Create Query Models
    - [x] Track_FetchTracksBy
    - [x] PlaylistTrack_FetchPlaylist
  - Create Command Models
    - [x] PlaylistTrackTRXInput
- [ ] Create Transactional Services (methods)
  - [x] Add a Track
  - [ ] Remove tracks from playlist
  - [ ] Reorganize playlist tracks
- [ ] Create form web page #3

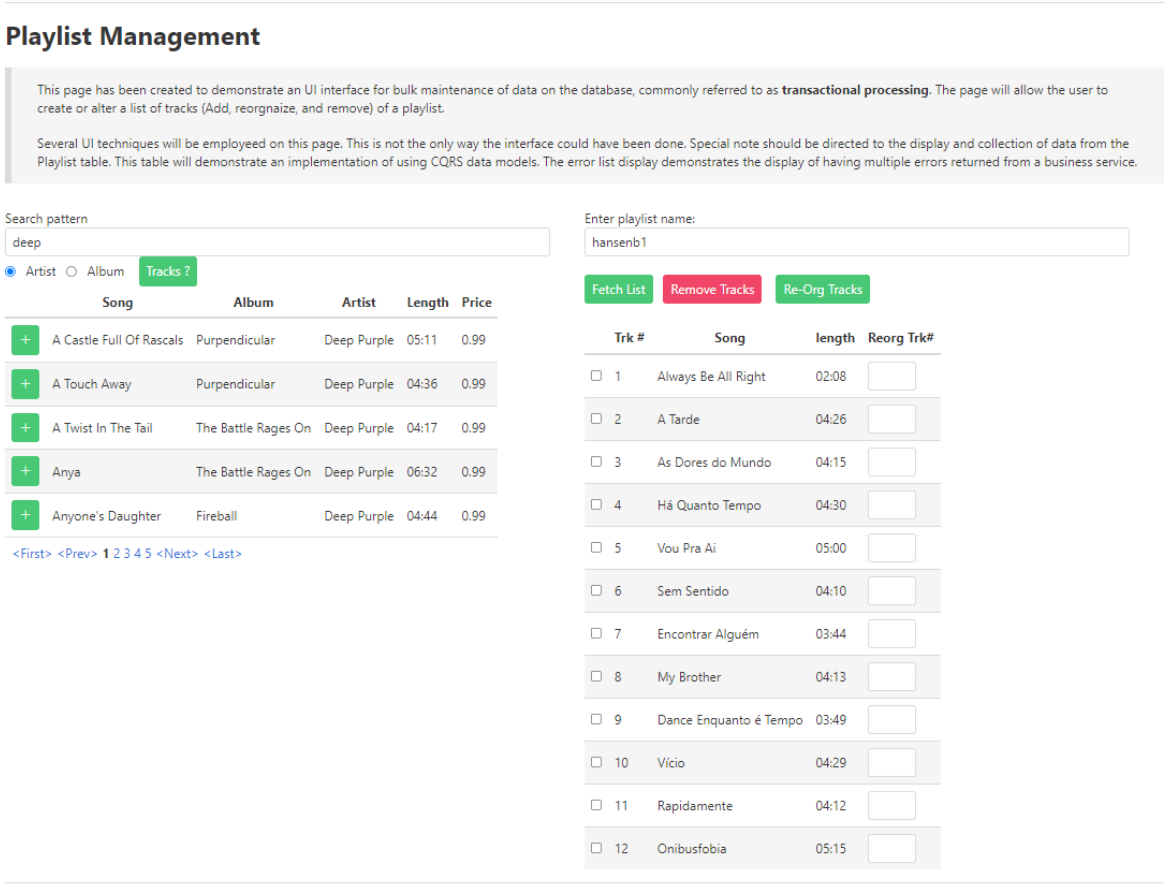
 **dwelchnait** added the documentation label 6 days ago

 **dwelchnait** added this to the **Sample desired OLTP design documentation for 2018 course** milestone 6 days ago

**dwelchnait** self-assigned this 6 days ago

**dwelchnait** commented 6 days ago — Collaborator — Author

# Expected Transactional Form




**dwelchnait** commented 6 days ago — Collaborator — Author

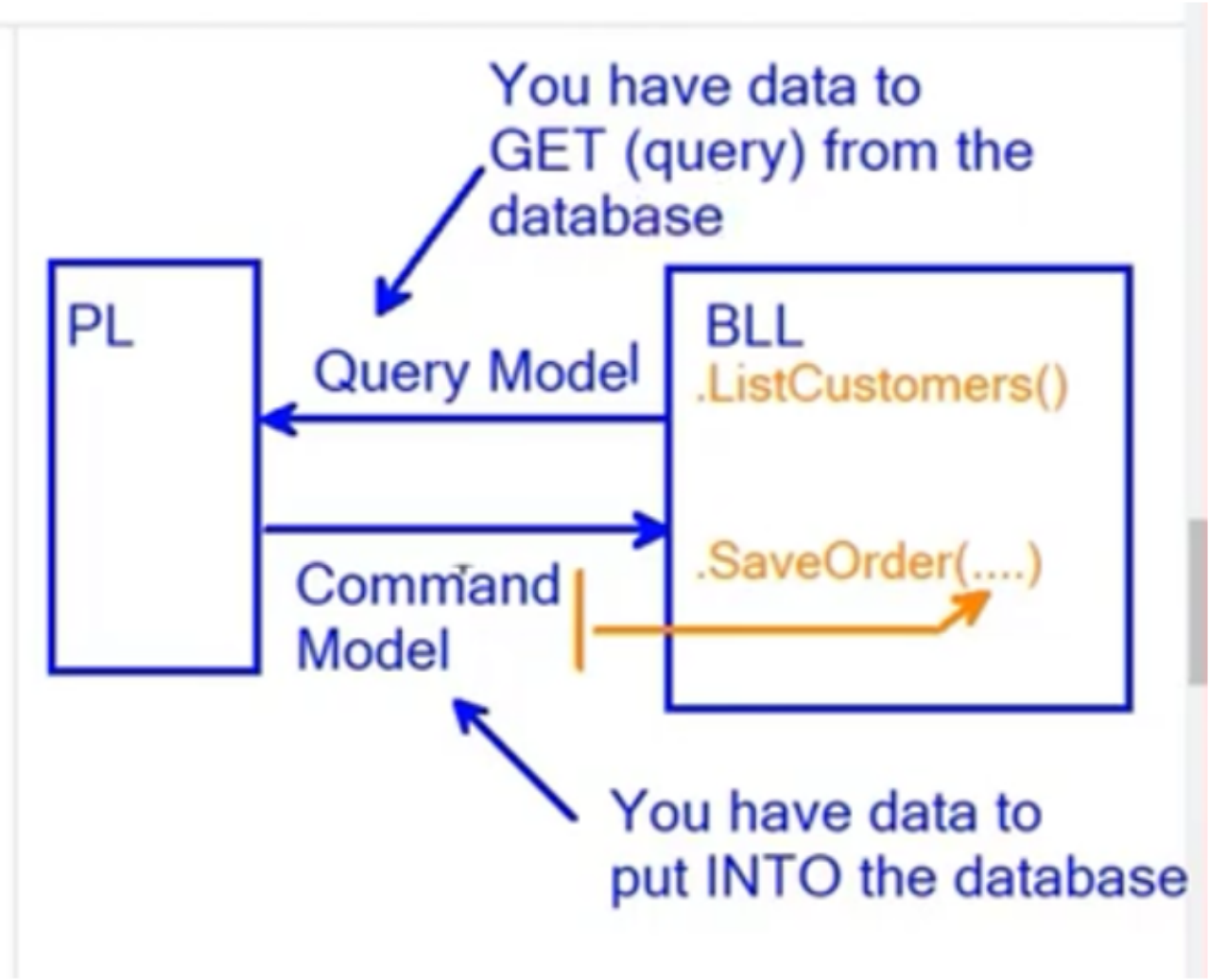
# Chinook ERD for Transactional Form


**dwelchnait** commented 6 days ago • edited

Collaborator Author

# Data Models (CQRS)

The data models are the C# classes that will be coded in the class library project/application (folder: ViewModels) that holds the public data classes in our solution. These classes represent the query class models and the command class models (CQRS)




## Query Models

### Artist and Album Tracks fetch (Track_FetchTracksBy)

```
public class TrackSelection
{
    public int TrackId {get; set;}
    public string SongName {get; set;}
    public string AlbumTitle{get; set;}
    public string ArtistName{get; set;}
    public int Milliseconds {get; set;}
    public decimal Price {get; set;}
}
```

### Current Playlist fetch (PlaylistTrack_FetchPlaylist)

```
public class PlaylistTrackInfo
{
    public int TrackId {get; set;}
    public int TrackNumber {get; set;}
    public string SongName {get; set;}
    public int Milliseconds {get; set;}
}
```

## Command Models

### Add Track

*No model class, individual parameters*

### Remove/Move Tracks (shared command model due to the web page handling of BindProperty)

#### Remove Tracks

> for the Remove Tracks functionality, the SelectedTrack and TrackId will be required for transactional processing

#### Move Tracks (re-sequence playlist)

> for the Move Tracks functionality, the TrackId, TrackNumber and TrackInput will be required for transactional processing

```
public class PlaylistTrackTRX
{
    public bool SelectedTrack {get; set;}
    public int TrackId {get; set;}
    public int TrackNumber {get; set;}
    public int TrackInput {get; set;}
}
```

**dwelchnait** commented 2 days ago • edited ▾ Collaborator Author

# Business Processing Requirements

> This comment will describe the various methods that will be used for Commands (CQRS) that alter the database. Queries are read only and require on average no complex processing. You *may* in another comment outline your query methods. However, commands require **business rules, data validation** and **manipulations of one or more tables and/or records**. Therefore, the processing of commands could required extensive logic to be outlined.
>
> include the ***method signature*** and a ***bullet list of processing (pseudo-code)***

## Add Track

### void PlaylistTrack_AddTrack(string playlistname, string username, int trackid)

- check that the incoming data exists
  - if a problem exists, throw an ArgumentNullException for missing incoming value
- check track exists
  - does not exist, throw an ArgumentException on trackid
- check to see if playlist exists
  - no (new playlist)
    - create a new playlist record
    - set track number to 1
  - yes (appending to existing playlist)
    - check if track already on the playlist (B/R)
    - yes
      - throw an Exception B/R
    - no
      - determine the next track number
- add track to playlist tracks
- check for any errors
  - yes: throw list of all collected exceptions
  - no: save all work to database

Assignees

 **dwelchnait**

Labels

documentation

Projects

None yet

None yet

**Milestone**

**Sample desired OLTP design documentat...**

**Development**

No branches or pull requests

**1 participant**