Theme: Music application

## Project requirements:

- Registration
- Authorization
- View list of the songs
- View list of the albums
- View all of these according to selected genre
- \*Logging

#### Roles:

- 1. User
  - I. CRUD Playlists
  - II. Subscribe/change subscription/unsubscribe
- 2. Artist
  - I. CRUD Tracks
  - II. CRUD Albums
- 3. Admin
  - I. CRUD Playlists, CRUD Subscriptions, CRUD Tracks, CRUD Albums, CRUD Users, CRUD Label

#### **Tables**

#### User:

Name:	Type:	Restrictions(PK, FK)
Id	bigserial	PK
login	varchar(100)	NOT NULL UNIQUE
email	varchar(256)	NOT NULL UNIQUE
password	varchar(256)	NOT NULL

### Artist:

Name:	Type:	Restrictions(PK, FK)
UserID	(bigserial)	FK
Country	varchar(56)	NOT NULL
Instruments	varchar(256)	NOT NULL
Website	varchar(256)	NOT NULL UNIQUE
Labels	(bigserial)	FK
Genres	(smallserial)	FK

### Admin:

Name:	Type:	Restrictions(PK, FK)
UserID	(bigserial)	FK

#### Label:

Name:	Туре:	Restrictions(PK, FK)
Id	bigserial	PK
ArtsitID	(bigserial)	FK

Name	varchar(150)	NOT NULL UNIQUE
Budget	money	NOT NULL >=0

## Album:

Name:	Type:	Restrictions(PK, FK)
Id	bigserial	PK
ArtsitID	(bigserial)	FK
Name	varchar(150)	NOT NULL
Release date	date	NOT NULL

### Track:

Name:	Type:	Restrictions(PK, FK)
Id	bigserial	PK
AlbumID	(bigserial)	FK
Name	varchar(150)	NOT NULL
Timing	time	NOT NULL
Likes	bigint	NOT NULL >=0
Streaming	bigint	NOT NULL >=0
GenreID	(smallserial)	FK

## Genre:

Name:	Type:	Restrictions(PK, FK)
Id	smallserial	PK
Name	varchar(150)	NOT NULL UNIQUE

# Playlist:

Name:	Type:	Restrictions(PK, FK)
Id	bigserial	PK
Name	varchar(150)	NOT NULL UNIQUE
Tracks	ARRAY	

# Subscription:

Name:	Type:	Restrictions(PK, FK)
Id	bigserial	PK
Title	varchar(150)	NOT NULL UNIQUE
Cost	money	NOT NULL >=0

# Logging:

Name:	Туре:	Restrictions(PK, FK)
Id	bigserial	PK
UserID	(bigserial)	FK
Message	varchar(500)	NOT NULL