



# Music notebook

Java project

## Goals of the project



Should be built in 2 jar files:

- Web-app provides UI
- Rest-app provides API for database access

Root framework is Spring



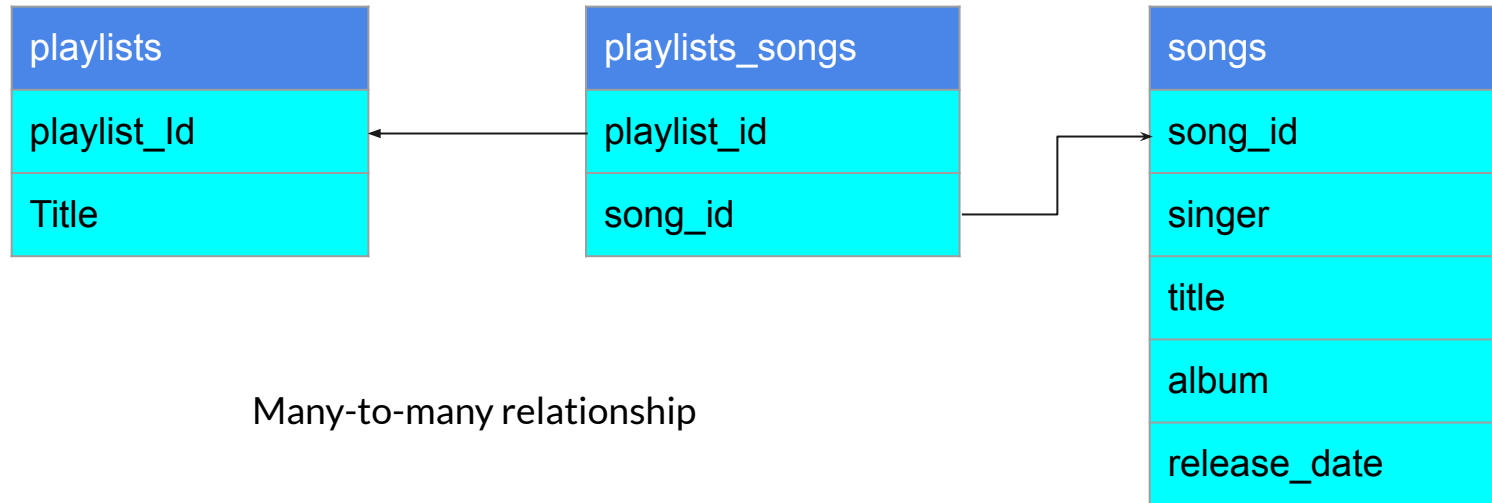
# Project theme

Music Notebook is an application for recording descriptions of your favorite songs and making playlists from them.

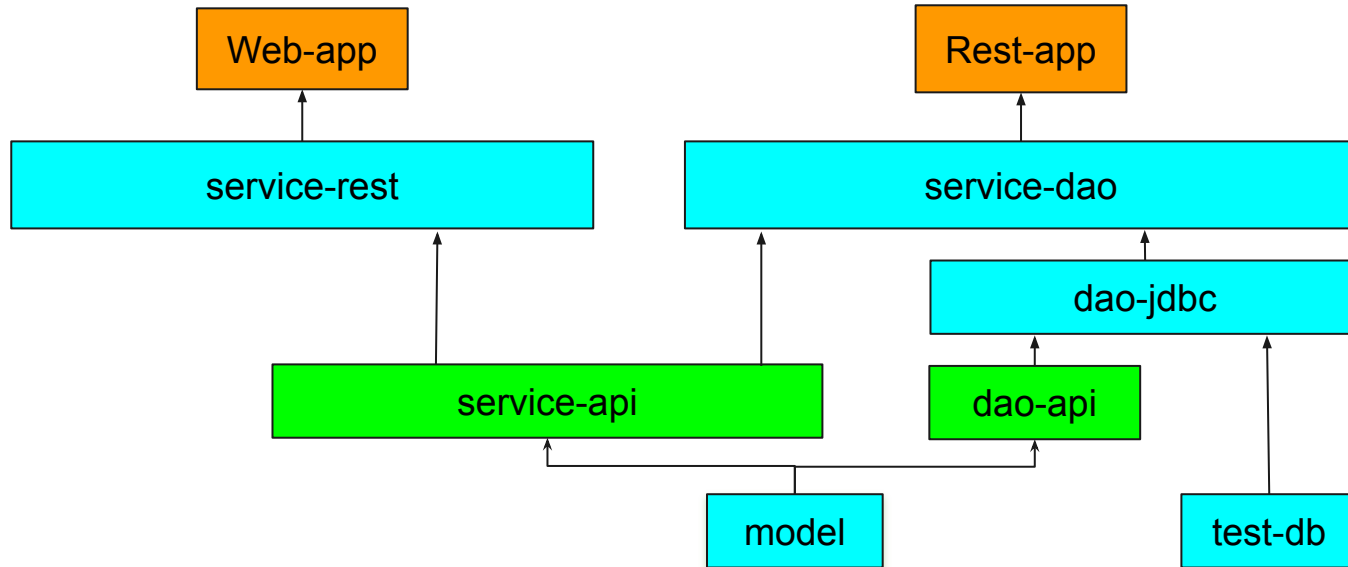
Music notebook must provide:

- CRUD for songs
- CRUD for playlists
- Sort songs by playlists
- Filter songs by release date

# Database structure



# Project structure





## Rest-app description

### Features:

- Independent testing of each layer
- Handling exceptions with a controller advice
- By default, the H2 in memory database is used, but it is possible to launch the application with profiles for mysql or postgres databases

### Technologies:

- Spring Boot
- Spring Jdbc
- Spring MVC
- Spring Test
- Jupiter
- Mockito
- MockMVC
- Logback
- Jackson
- H2
- MySQL
- PostgreSQL
- Swagger2 UI
- Hibernate validator
- Apache Maven



# Web-app description

## Features:

- Adaptive design
- Handling exceptions with a controller advice
- Integration tests covering all layers at once


## Technologies:

- Spring Boot
- Spring MVC
- Spring Test
- Bootstrap
- Thymeleaf
- Logback
- Jupiter
- Jackson
- MockMVC
- Apache Maven



# Adaptive design


 Playlists Songs











SONGS  + Add

Singer	Title	Album	Release date	
Metallica	Nothing else matters	Metallica	12-03-1992	 Edit  Delete
Michael Jackson	Billie jean	Thriller	02-01-1983	 Edit  Delete
Queen	The show must go on	Innuendo	14-10-1991	 Edit  Delete
Metallica	Enter Sandman	Metallica	29-06-1991	 Edit  Delete
Queen	Another One Bites the Dust	The Game	22-08-1980	 Edit  Delete

©2021

  Playlists Songs

SONGS  + Add

Singer	Title	
Metallica	Nothing else matters	 
Michael Jackson	Billie jean	 
Queen	The show must go on	 
Metallica	Enter Sandman	 
Queen	Another One Bites the Dust	 

©2021





## Building and running the application

- Building tool is Apache Maven
- The Maven builds two executable jar files. When you run these files, the application is automatically deployed to the embedded Tomcat server.
- Can be run separately as standalone applications with docker
- Can be run as a single application with docker-compose (with mySQL database)