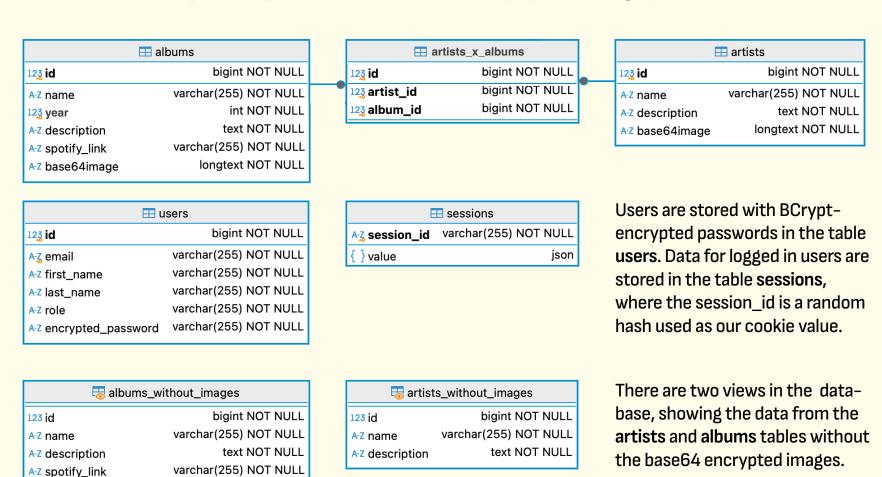


The Music Vault, MySQL database: ER Diagram

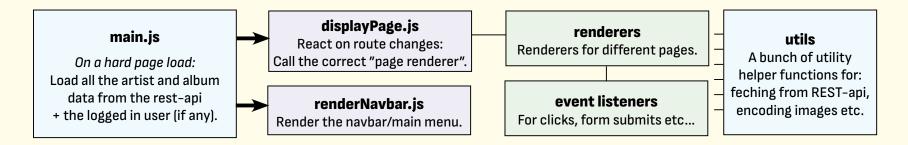
The only relation we have is a many-to-many relationship between albums and artists:

- An album is made by one or several artists, an artist can make one to many albums
- We solve this many-to-many relation in the classic SQL way, by introducing a join table, artistsXalbums.



The Music Vault: Quick overview

The frontend is an SPA built with "vanilla JS" (JavaScript without any frontend framework). Two external JS libraries are used: The JS part of the Bootstrap CSS library and Marked.js (conversion of markdown to html). The Bootstrap CSS library is used to accomplish a modern responsive layout in conjunction with my own CSS.



SPA (Single Page Application): Frontend routing

The frontend is an SPA, which takes care of the routing of a number of different GET routes, via JavaScript running in the browser, without doing any hard page reloads between route changes.

Menu item / Link	Shown for	GET route	Description	
Artists	everyone	1	List of artists	
Albums	everyone	/albums	List of albums	
Add an artist	logged in users	/add-artist	Form for adding an artist	
Add an album	logged in users	/add-album	Form for adding an album Info about the application	
About	everyone	/about		
Register	visitors (not logged in)	/register	Form for registering a user	
[name of logged in user]	logged in users	/register	Form for updating user info	
[link from each artist in list] everyone		/artists-info/:id	Details about an artist	
[link from each album in list]	everyone	/album-info/:id	Details about an album	
[link from each artist in list]	logged in users	/edit-artist/:id	Form for editing artist info	
[link from each album in list] logged in usrs		/edit-album/:id	Form for editing album info	

The Music Vault: **REST API Routes**

Request method	Route	Access control (by user roles)
POST	/api/register	visitor
PUT	/api/register	user
POST	/api/login	visitor
GET	/api/login	visitor, user
DELETE	/api/login	user
POST	/api/artists	user
GET	/api/artists	visitor, user
GET	/api/artists/:id	visitor, user
PUT	/api/artists/:id	user
DELETE	/api/artists/:id	user
GET	/api/artistsWithoutImages	visitor, user
GET	/api/artistsWithoutImages/:id	visitor, user
POST	/api/albums	user
GET	/api/albums	visitor, user
GET	/api/albums/:id	visitor, user
PUT	/api/albums/:id	user
DELETE	/api/albums/:id	user
GET	/api/albumsWithoutImages	visitor, user
GET	/api/albumsWithoutImages/:id	visitor, user
GET	/artistXalbums	visitor, user
POST	/artistXalbums	user
DELETE	/artistXalbums/:id	user

The Music Vault: File Statistics, version 0.8.3

SUM, 15 files:

-	Java)	SLOC	KB	JavaScript	SLOC	KB
-	AclRules.java	41	1.5	displayPage.js	71	2.4
1	AsciiLogo.java (16	0.8	eventsForAlbumForm.js	65	2.4
:	Interceptor.java	116	4.1	eventsForArtistForm.js	42	1.6
	JacobsWebApp.java	94	3.6	eventsForUserForm.js	43	1.6
	JsonResponse.java	18	0.6	main.js	46	1.6
I	LoginAndRegister.java	113	4.2	render404.js	14	0.4
F	Interceptor.java JacobsWebApp.java JsonResponse.java LoginAndRegister.java ReadRequestBody.java RestConfiguration.java	49	1.6	renderAboutFromReadMe.js	24	0.7
F	RestConfiguration.java	37	1.4	renderAlbumForm.js	70	2.7
(SQLQuery.java	50	1.6	renderAlbums.js	103	3.9
(Session.java	62	2.0	renderArtistForm.js	40	1.5
(SystemOutOnOff.java	23	0.5	renderArtists.js	96	3.5
6	entities/Album.java	33	0.7	renderLoginForm.js	53	1.9
6	entities/AlbumWithoutImage.java	27	0.6	renderNavbar.js	60	2.3
6	entities/Artist.java	28	0.6	renderSpotifyPlaylist.js	35	1.2
6	entities/ArtistWithoutImage.java	24	0.5	renderUserForm.js	55	1.9
entities/ArtistXAlbum.java		25	0.5	renderUserMenu.js	52	1.7
entities/User.java		34	0.7	utils/addEventListener.js	14	0.7
repositories/AlbumRepository.java		8	0.3	utils/addRelations.js	16	0.6
repositories/AlbumWithoutImageRepository.java		8	0.4	utils/closeHamburgerBar.js	8	0.2
repositories/ArtistRepository.java		8	0.3	utils/displayToast.js	24	0.9
repositories/ArtistWithoutImageRepository.java		8	0.4	utils/fetchHelpers.js	49	1.3
repositories/ArtistXAlbumRepository.java		8	0.4	utils/fileToBase64.js	11	0.4
repositories/UserRepository.java		8	0.3	utils/followExternalLinksInNewTab.js	6	0.2
SUM, 24 files:		838	27.7	utils/formDataCollector.js	22	0.7
				utils/navigate.js	8	0.2
(CSS	SLOC	KB	utils/noCommasOnArrayToString.js	2	0.1
á	about-page.css	41	0.5	utils/setActiveMenuChoice.js	13	0.6
album.css		161	2.3	utils/usePushStateOnInternalLinks.js 1		0.5
á	artist.css	120	1.9	utils/waitForModalAnswer.js	43	1.6
ŀ	basic.css bootstrap-mods.css edit-mode.css	34	0.5	SUM, 30 files:	1,100	39.3
ŀ	bootstrap-mods.css	55	0.8			
6	edit-mode.css	15	0.2			
font-imports.css		53	1.3			
form.css		50	0.6	TOTAL STATISTICS		
header.css		4	0.1	69 files	I	
modal.css		7	0.1	76 kilobytes of source code		
sticky-footer.css		9	0.1	2,550 source lines of code	I	
	style.css	19	0.4			
ı	user-menu.css	41	0.5			
١	variables.css	3	0.0			
	A. A					

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