

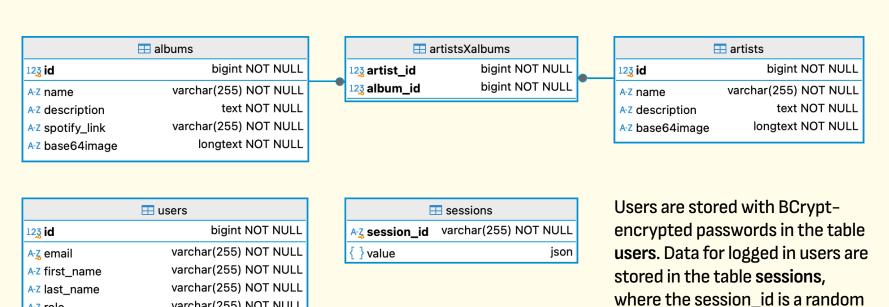
Jacob's MySQL database: ER Diagram

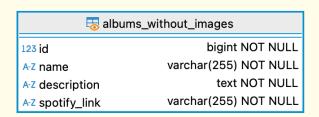
varchar(255) NOT NULL

varchar(255) NOT NULL

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

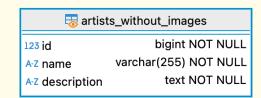
- An album is made by one or several artists, an artist can make one to many albums
- We solve this many-to-many relation in the classic SQL way, by introducing a join table, artistsXalbums.





A-Z role

A-Z encrypted_password



There are two views in the database, showing the data from the artists and albums tables without the base64 encrypted images.

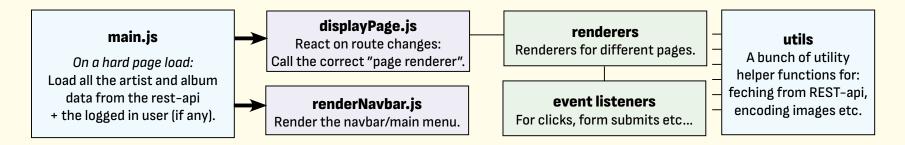
hash used as our cookie value.

Jacob's Backend: 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	

Jacob's Frontend: 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
About	everyone	/about	Info about the application
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