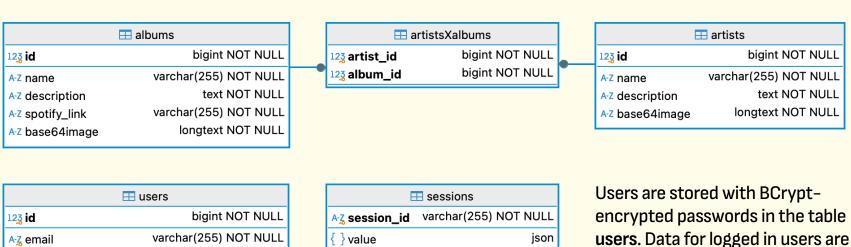
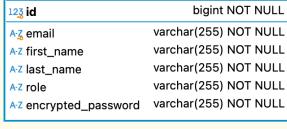


## Jacob's MySQL database: ER Diagram

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

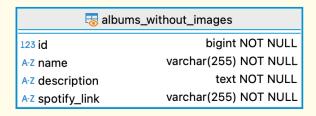
- An album is made by one or several artists, an artist can make one to many albums
- We solve this many-to-many relation in the classic SQL way, by introducing a join table, artistsXalbums.

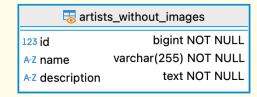






stored in the table sessions, where the session\_id is a random hash used a our cookie value.





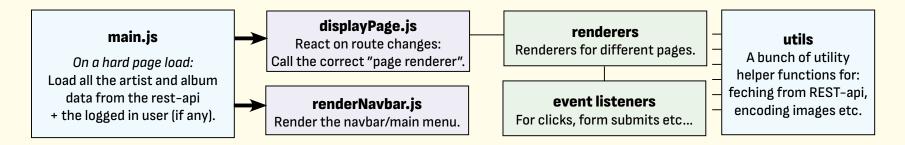
There are two views in the database, showing the data from the artists and albums tables without the base64 encrypted images.

## 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  |