

# Milestone 4: Database

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## 1 Database Software, and Database Creation Scripts

We will be using PostgreSQL as the DBMS. Our database contains only one table, which we will use simply to track the users who have logged into our website. Since we are having our users authenticate through Spotify, we are just storing the information we receive back from Spotify about the user. We are communicating with the database using the pg-promise module for NodeJS. We have implemented a function which, after the user authenticates, will add them to the database if they are not already in our database. We have tested it using our teams Spotify accounts, because the point is to trigger the population of the database following authentication, we need valid Spotify accounts to really show that our scripts are working. It has been successful for our whole team.

## 2 Data Models

The following is a screen shot of our database from the terminal. Since it is in postgres it could be relational, but our scope has now been narrowed to just working with a users Spotify and we only require one table.

```
[dynamic_rhythm=# \d users
Table "public.users"
  Column |          Type          | Collation | Nullable | Default
-----|-----|-----|-----|-----
 id      | character varying(40)  |           | not null |
 email   | character varying(40)  |           | not null |
 name    | character varying(40)  |           | not null |
 country | character varying(20)  |           |          |
 uri     | character varying(40)  |           |          |
Indexes:
  "users_pkey" PRIMARY KEY, btree (id)
[dynamic_rhythm=# ]
```

```
dynamic_rhythm=# select * from users;
```

id	email	name	country	uri
12136968179	sofie.lange.98@gmail.com	Sofia Lange	US	spotify:user:12136968179
test	test	test	test	test
bfgrrh4n4ap4mrksubd4dig1	xizh8339@colorado.edu	Applat	US	spotify:user:bfgrrh4n4ap4mrksubd4dig1
1285650559	maloney.jake.p@gmail.com	Jake Maloney	US	spotify:user:1285650559
1249055928	mrsnuffles.will@gmail.com	Will Wells	US	spotify:user:1249055928
kawmaster	sricharanvarra@gmail.com	kawmaster	US	spotify:user:kawmaster

```
(6 rows)
```

```
dynamic_rhythm=#
```