The Final Project: Vinyl Store

Stack:

* Node.js 20+
* Nest.js
* TypeScript
* Database (NoSQL / SQL)
* ORM (Optional)
* Unit and Integration Testing (Utilizing node:test package)
* Deployment (Heroku, AWS, GCP, Netlify)
* Swagger Documentation
* Single Sign-On (SSO) with Google or alternative providers
* Code Formatting and Quality Assurance (Prettier + ESLint + Git Hooks)
* Payment Integration with Stripe
* Email Sending (Using Nodemailer)
* Configuration Service (Instead of dotenv package)
* Initial Data Migration (Approximately 50 vinyl records)

Acceptance Criteria:

User Authentication:

* Users should be able to log in to the system using Google or other SSO providers.
* Admins should also have the capability to log in using SSO.

Logout Functionality:

* Both Admins and Users should be able to log out from the system.

Accessing Vinyl List:

* Users should have access to the vinyl list without requiring authorization.
* The vinyl list should display details such as price, name, author name, description, the first review from another user, and the average score based on reviews.
* Records should be paginated for better navigation.

User Profile Management:

* Authenticated users should be able to view their profiles, including details such as first name, last name, birthdate, avatar, their reviews, and purchased vinyl records.
* Users should have the ability to edit their profiles, including updating first name, last name, birthdate, and avatar.
* Authenticated users should also have the option to delete their profiles.

Purchase Process:

* Authenticated users should be able to purchase vinyl using Stripe.
* Users should receive email notifications about their payments.

Admin Functionality:

* Admins should be able to add new vinyl records to the store, including details like author name, name, description, image, and price.
* Admins should have the capability to edit and delete records in the store.

Search and Sorting:

* Authenticated users should be able to search for vinyl records by name and author name.
* Users should have the option to sort vinyl records by price, name, and author name.

Review System:

* Authenticated users should be able to add reviews (including comments and vinyl scores) to vinyl records.
* Admins should be able to delete reviews.
* Users should be able to view all reviews of a vinyl record, with pagination for better navigation.

System Logs:

* Admins should have access to view logs of the system, including all create, update, and delete actions

for all entities.

Optional Tasks (to showcase experience):

Integration with Discogs ([*https://www.discogs.com/developers*](https://www.discogs.com/developers)) for:

* Initial migration of vinyl records.
* Displaying Discogs vinyl record scores.
* Adding vinyl records from Discogs to the system (restricted to Admins).

Integration with Telegram

* Integration with Telegram for posting vinyl records to channels, including details like name, link to the store, and price.