



Project phase 2
Web services and APIs

Presented by

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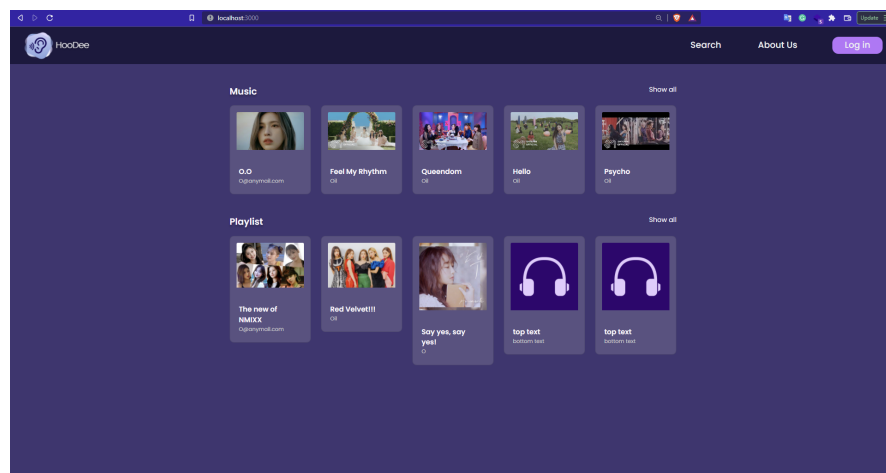
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How to run code

As the people who can access the code, you can change the directory to HooDee and type **npm start** into your terminal. Node.js will listen on port **3000**.

After starting the server, you can type <http://localhost:3000/> URL in your web browser to access our homepage (Default page).



Before you can search the music, you have to sign up and log in respectively first. Following your first sign-up, it requires you to scan QR code to the authenticator application. And then type 6 digits code provided in the authenticator application. After you finish authenticating, please enjoy!

Dependencies

We use NPM as the main package in our website development, there are these dependencies inside.

```
"body-parser": "^1.20.0",  
"dotenv": "^16.0.0",  
"ejs": "^3.1.6",  
"express": "^4.17.3",  
"express-jwt": "^6.1.1",  
"express-session": "^1.17.2",  
"jsonwebtoken": "^8.5.1",  
"mysql": "^2.18.1",  
"mysql2": "^2.3.3",  
"node-fetch": "2.0",  
"nodemon": "^2.0.15",  
"otplib": "^12.0.1",  
"qrcode": "^1.5.0",  
"sqlite3": "^5.0.2"
```

What we have done

Task 1: Database

In the database, there are 3 main tables which are User, Music, and Playlist. User collects users' data such as UserID, User Name, First Name, and Last Name. Music collects musics' data such as MusicID, Music Name, Music Image, and Music File. And Playlist collects playlists' data such as PlaylistID, PlaylistCreator, Playlist Name, and Playlist Image. There are more tables which collect the activities of the user. LoginLog collects the users' login time. UserFollowUser collects the following activity. UserCreateMusic collects data about the user creating the music. UserFollowPlaylist collects data about the user following the playlist. UserCreatePlaylist collects data about the user creating the playlist. Furthermore, we have a query to count the follower of the user and the playlist.

Task 2: Web Services

There is an Authentication for all use. This web service will be called after the users sign-up or login to the web application.

In the HooDee web application, there are many functions for users. For example, In the search page, users will see the search bar and the popular music. Users can choose the function of the search bar which there are all users, music, and playlist to get the result of searching.

Task 3: Web Services Interaction

We use QR code generator for authentication service as the public API and we use `user.js` (file outside public directory) as the API handler in Authentication. Search.js and Result.js as the search and result API handler.

