

PHP - Tech interview

Developer Task

We would like you to create a music collection app. This task is to check your skills on code pattern, code organization and software architecture experience.

We value everyone's time a lot! So it is not without serious consideration that we decided to add this step to our hiring process. Although it might take you a bit of your time to build the app, it will be very valuable for us, because your skills will do all the hard work in the hiring process. This app is how we will judge your skills.

We will look for your skills on Object-Oriented Programming (OOP), MVC (Model-View-Controller) pattern, SoC (Separation of Concerns), Best Practices.

Requirements

Albums

- Create a CRUD for the albums
- List albums
- Each album will contain the following fields:
 - `Artist` let user select from the list of existing artists
 - `Album name`
 - `Year`

Artist List

- Only allowed artists (generated from the below artist list endpoint) should be accepted by the app. The app must load the list of artists from an API.
- Endpoints:
 - `https://europe-west1-madesimplegroup-151616.cloudfunctions.net/artists-api-controller` - returns a list of artists.
 - `https://europe-west1-madesimplegroup-151616.cloudfunctions.net/artists-api-controller?artist_id=<artist_id>` - return the singular artist information
 - Header:
 - Set `Authorization: Basic ZGV2ZWxvcGVyO1pHVjJhV3h2Y0dweQ==` on Header
- There's no need to cache the list. It is ok to pull it from the API whenever the list is needed.
- This list should be used to populate the select box (or equivalent) used to select the artist of the album.

Tech Requirements

We would like you to create a dynamic web app which will allow the user to navigate the website on a single page.

For data storage, we would like you to use mysql or mariadb.

Presentation

As part of the technical interview you will be asked to run through your web app. It's fine to have this running locally.