

Nectar Technical Interview Project

It was awesome getting to know you and your technical background!.

As a follow up to that and part of our interview process, we would like for you to complete this technical interview project:

Part 1: Node+Express

Design a simple Express JS server with the following properties:

- Uses at least one middleware.
- Has at least three endpoints which do the following:
 - One displays a frontend page with the Fibonacci Sequence on it with at least one style
 - One returns weather forecast data for a given US state code using this API: <https://www.weather.gov/documentation/services-web-api> and returns it in JSON format.
 - One that takes this object `{ [A String] : [A String] }` and returns both the key and the value reversed
- For each of the endpoints you make, include a comment about how you would test it.

Part 2: Database Queries

Given the following Postgres 15 database table called `employees`

id (int2)	name (varchar)	country (varchar)	height (varchar)	additional_options (JSONB)	liked_sports (text[])
1	May Godert	US	5ft1in	<code>{ 'dog_name': 'Mark' }</code>	<code>{ 'baseball', 'basketball' }</code>
2	Suzie Barnam	FR	5ft6in	<code>{ 'dog_name': 'Ellie', 'cat_name': 'Gennie' }</code>	<code>{ 'golf', 'basketball' }</code>
3	Carrie Malone	FR	5ft9in	<code>{ 'dog_name': 'Wolfie' }</code>	<code>{}</code>
4	Spencer Fielder	GR	6ft2in	<code>{ 'dog_name': 'T-1000', 'turtle_name': 'Lowrie' }</code>	<code>{ 'baseball', 'basketball' }</code>
5	Happy Thomas	CN	5ft11in	<code>{ 'dog_name': 'Brixton', 'turtle_name': 'Sir Turt' }</code>	<code>{ 'baseball', 'basketball' }</code>

Write the following queries in SQL:

- Get all employees from France (FR)
- Change the employee with a dog named 'Ellie' to be from Brazil (BR)
- Bonus: Get all employees who like baseball.

- 2nd Bonus: Change every employee who doesn't like baseball to liking baseball.
- 3rd Bonus: Give Spencer a pet fox named Alfie.
- 4th Bonus: Write the non-bonus queries in the PrismaClient syntax assuming the client is called `prisClient`

Zip up your solution, name it `Technical_Project.zip` and email it to me at least the day before your onsite interview. This is an opportunity to showcase your skills as a part of the interviewing process. Do your best and try to show your thinking process where possible.

We're excited to talk with you about your solution and meet you in person!