

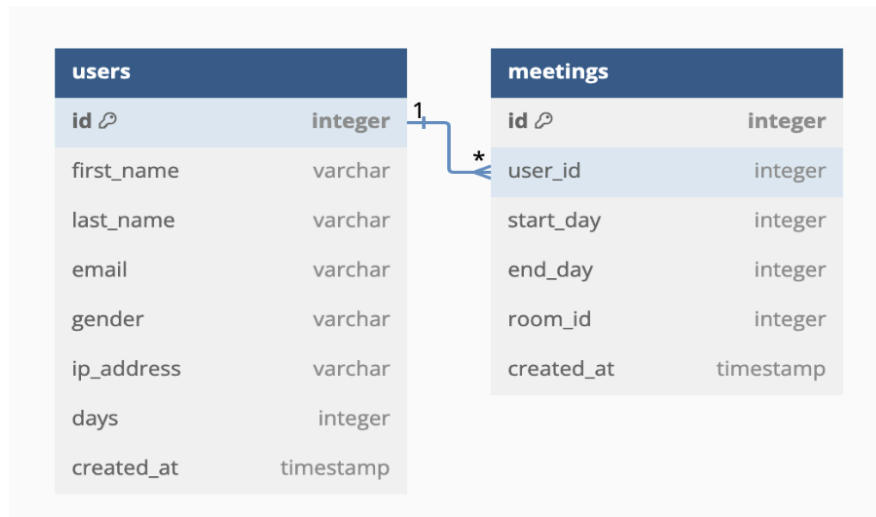


Take-home assignment (Fullstack Engineer)

Get & Show data working days

Database Options:

1. Use the two attached JSON files named 'users.json' and 'meetings.json'.
2. Create your own database following the format specified below.



Database Attributes:

- Users table:
 - **id** (integer, primary key): Unique identifier assigned to each employee.
 - **first_name** (varchar): First name of the employee.
 - **last_name** (varchar): Last name of the employee.
 - **email** (varchar): Email address associated with the employee for communication and identification purposes.
 - **gender** (varchar): Gender of the employee, commonly represented as 'male', 'female', or 'other'.
 - **ip_address** (varchar): IP address attributed to the employee.
 - **days** (integer): Total number of days the employee is available for work, starting from day 1 of their availability.
 - **created_at** (timestamp): Timestamp indicating the date and time when the employee record was initially created in the system.
- Meetings table:
 - **id** (integer, primary key): Unique identifier for each attendance record.
 - **user_id** (integer): Identifier referencing the user who attended the meeting.
 - **room_id** (integer): Identifier referencing the room where the meeting took place.
 - **start_day** (integer): The day on which the meeting starts.
 - **end_day** (integer): The day on which the meeting ends.
 - **created_at** (timestamp): Timestamp indicating when the attendance record was created.

Constraints:

- `1 <= users.days <= 50`
- `1 <= meetings.start_day <= meetings.end_day <= users.days`

Requirements**Language Preferences (optional):**

- Back-end: Node.js (NestJS)
- Front-end: React (Next.js)

Initial Data Fetch:

- Fetch the first 10 records when the page loads.
- Display these records on the webpage.

Infinite Scrolling:

- Detect when the user has scrolled to the bottom of the page.
- Fetch the next 10 records when the bottom is reached.
- Append the newly fetched records to the existing list on the webpage.

Front-end:

- Display data including the following fields:
 - "id"
 - "first_name"
 - "last_name"
 - "email"
 - "gender"
 - "days"
 - "meeting_days" (a list of meetings with start and end dates, represented by tags or other UI. For example `1->2` `3->4`)
 - "days_without_meetings" (number of days when the employee is free to work without any scheduled meetings)

Back-end API:

- Provide an endpoint to fetch working days (from your tables or read 2 file json).
- Support query parameters for pagination (offset and limit).

Error Handling:

- Handle and display errors that occur during the fetch operation.
- Inform the user if no more data is available.

Assignment Deployment

- Deploy your project to Vercel.
- Upload code to Github.

Assessment Criteria

- Typescript.
- ESLint - Babel - ES6/7 Syntax.
- Clean structure, components, style components, and API security.
- Code readability and maintainability.
- Performance and exception handling.