Datavid Cake Tracker

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Description

This project is a simple full-stack web application that aims to keep track of employees' birthdays and display them so that employees with the nearest birthdays are at the top.

Client-side: React.js + Typescript

On the client-side we will have one screen that contains the list of employees sorted by closest to date birthdays, witch is fetched from the backend.

Near this list, there will be a button that will open a modal

The modal contains the input fields: first name, last name, city, country, and the date of birth (picked as a date and stored as timestamp) for constructing the employee object. After the construction, the object will be pass to a function that validates each property and if they are all correct then the object will be send to the backend.

 The validations performed on the front-end are:

- checking for fields that were left empty
- checking for the employes age to be over 18.

The sending of the data will be perform via the fetch() api, if the data is send successfully, the component will trigger a re-render of the list and will display the list sorted and with the new employee added, if it fails, we get a string response witch will be the error that we display at the top of the modal, under the title.

Server-side: Node.js + Express.js Mongo.db

The server contains 2 endpoints

app.get("/getAllEmployees", getAllEmployees); This endpoint retrieves all the employees from the data base, sorts them, and sends an array of employees to front-end.

app.post("/addNewEmployee", createEmployee); This endpoint expects the first name, last name, city, country, and date of birth of the employee in the body, then checks if the object has all its properties, if any on the input fields were left empty, if the employee is under 18, trims all the white spaces and checks if already exists an employee with the same first name, last name, city, and country. If the object pass all the validations it will be stored in the database.