

Lab4 - Express server and mongoose

Please read the whole file before starting to code.

GREENS ARE BONUS

We need to create an Employee system with the following 3 models:

1- Employee model

employee should have:

- username: String, required, unique, no spaces, min 8
- firstName: String, required, min length 3, capitalized, max length 15
- lastName: String, required, min length 3, capitalized, max length 15
- dob: Date, required
- password: String, required, min length 8
- createdAt: Date, timeStamp,
- updatedAt: Date, timeStamp

2- Profiles model

profile should have:

- empId: required, unique
- title: String, required
- description: String, required
- yearOfExperience: default 0
- department: String, required
- phone: String, required
- email: required, valid email

3- Leaves model

leave should have:

- empId: required
- type: String, required and one of [annual, casual, sick]
- duration: +ve number, required
- createdAt: Date, timeStamp,
- updatedAt: Date, timeStamp,
- status: String and one of [inprogress, cancelled, ended], default
Inprogress
Employee can only change it to cancelled if it's not ended

empBukupld: (id of colleague who will cover work during the leave)
Shouldn't be the same as empld

Use autoIncremental id instead of mongo id

Each employee must have one profile.
Each employee can have many leaves.

Think about models relations and if there is any enhancement, do it

2- Implement the following end points:

HTTP Method	route	Description
post	/employees	- Add an employee with the following required attributes username, password, firstName, lastName Notes: - Handle validation errors returned from mongo
GET	/employees	Return id Return the firstName of employees Return the age of the employees (check mongoose feature)
DELETE	/employees/:id	Delete the employee with selected id
PATCH	/employees/:id	- Edit employee with the selected id - Return ({employee: theEmployeeAfterEdit}) if success - Handle validation errors returned from mongo
POST	/leave	Employee submit a leave Return the new leave to the employee
PATCH	/leave/:id	Edit leave, only can edit type, duration and status
GET	/employees/:id/leaves	Return the leaves of specific employee
GET	/leaves?limit=10&skip=#no&status=#status Value	- Return the leaves with specific required filters (status, defaults are limit 10 skip 0) (don't reinvent the wheel) - Return user name and user id only with each leave - Send user id in headers

- Profile routes are the same as employee routes
- 3- Create a client side app with single page that display the first 10 leaves of specific employee id and status filter
(handle CORS)

requirement:

- .env (port and mongo url)
- Debugger
- Linter

READ THE DOCUMENTATION

<https://mongoosejs.com/docs/>

Useful reads:

[JWT](#) **(must read)**

[Handle errors in express](#) **(IMPORTANT)**

[CORS](#)

[How bcryptjs works](#)