Lab4 - Express server

GREENS ARE BONUS

Implement a todo app where users can login and do simple CRUD operations on their todos.

- A Todo must have title, status, tags (optional) and the creation and update time.
- A User must have username, password, firstName and date of birth (optional).
- A User can sign up, and add, edit, view or delete his own todos.
- Todo has the status of 'new' by default and users can update into 'in-progress' or 'done'.

```
1- Create two models (user, todo)
User: {
       username: String, required, unique, min 8
       firstName: String, required, min length 3, max length 15
       lastName: String,required, min length 3, max length 15
       dob: Date, optional
       createdAt: Date, timeStamp,
       updatedAt: Date, timeStamp
       }
Todo {
       userId: the ObjectId of the user,
       title: String, required, min 5, max 20,
       status: String, optional, default is "to-do" ['to-do', 'in progress', 'done']
       tags:[String], optional, max length for each tag is 10
       createdAt: Date, timeStamp,
       updatedAt: Date, timeStamp
```

Use autoIncremental id instead of mongo id

3 - Implement the following end points.

HTTP Method	route	Description
post	/users	- Register a user with the following required attributes Username,password , firstName, lastName Notes: - Handle validation errors returned from mongo
GET	/users	Return the first name of registered users
DELETE	/users/:id	Delete the user with selected id

PATCH	/users/:id	- Edit the user with the selected id - Return ({message:"user was edited successfully", user: theUserAfterEdit"}) if success - Handle validation errors returned from mongo
POST	/toods	Create new todo ({title,tags}) You must save it with userId of the logged in user Return the new todo to the user
PATCH	/todos/:id	Edit todo
DELETE	/todos/:id	Delete todo
GET	/users/:userId/tod os	Return the todos of specific user
GET	/todos?limit=10& skip=0&status=\$v alue	Return the posts with specific required filters (status, defaults are limit 10 skip 0) (don't reinvent the wheel)

READ THE DOCUMENTATION

https://mongoosejs.com/docs/

Useful reads:

Handle errors in express (IMPORTANT)

How the Web works

CORS

How bcryptjs works

JWT

How to Deploy a MERN Application to Heroku Using MongoDB Atlas

Promisify