Workshop: Cubicle - Part 3

"Cubicle" is a place, where you can browse some of the most popular Rubik cubes in the world and add some new cubes that you have discovered.

If you missed the first two parts of this workshop, make sure you complete them before you continue because all parts of this workshop are related to each other.

Main Task

Now it's time to implement user service in your app, so people can register, login and logout. And each cube can be edited or deleted. Some of the functionality should require authentication such as (create a cube, create accessory) and authorization (such as edit and delete). Also, all routes should be protected!

Installing Dependencies

You should install a few more packages which you will use. They are:

- 1. **jsonwebtoken** allows you to decode, verify and generate JWT
- 2. **bcrypt** a library to help you hash passwords
- 3. cookie-parser parse cookie header and populate req.cookies with an object keyed by the cookie names (if you choose to store the jwt as a cookie)

Model

The **User** Model structure:

- Id ObjectId
- username string
- password string (hashed) Use bcrypt to hash and compare the password

Make sure, when you successfully create a new user into the database, you generate a **jsonwebtoken** and use it later for authentication and authorization.

Also, you have to add property on **Cube Model**, which is **creatorId** (type: **String** and it's **required**), so you can keep tracking every cube's creator.

Routes Protection

Make sure the anonymous (guest) users can't reach the functionality which requires authentication, such as creating a cube view. And already logged-in users have generated and stored jwt, can see the correct navigation, and can't reach the login and register form. If some of these scenarios happen, make sure the current user is redirected to the home page.

Authentication

Guest users can see and access the following URLs:



















- Home page (Browse)
- About page
- Login page
- Register page
- **Cube details page**

And can't access and see everyone else...

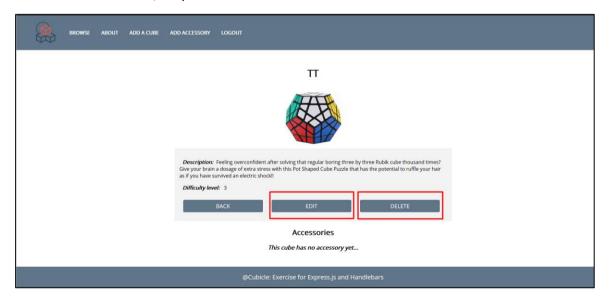
Logged in users can see and access the following URLs:



- Home page (Browse)
- About page
- Add cube
- Add accessory
- Logout
- **Cube details page**
- **Cube accessories page**
- **Edit Cube page**
- **Delete Cube page**

Authorization

Only authorized users should see the [Edit] and [Delete] buttons and if the currently logged-in user is the creator of this cube. Otherwise, they should be hidden.



Additional Pages

You should implement 4 new routes:

- /login should render the login form
- **/register** should render the register form
- /edit should render the edit form

















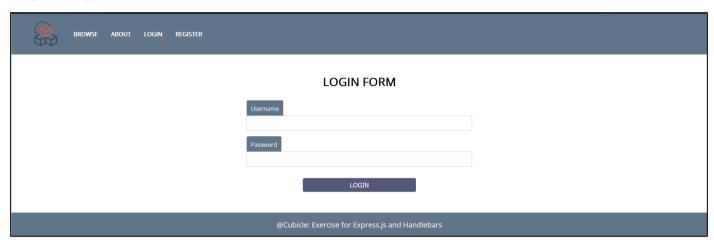


• /delete - should render the delete form

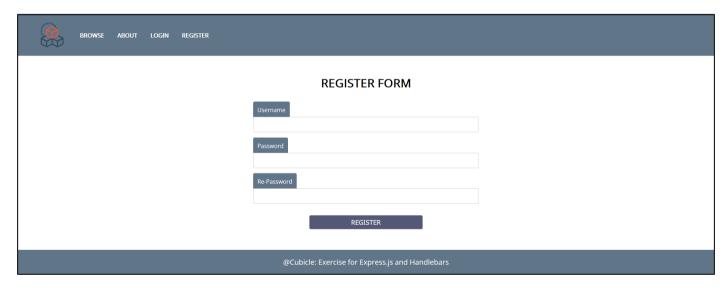
Make sure when you access /edit and /delete routes, they show the current cube information.

Use the provided **RESOURCES** to create the additional templates using Handlebars (Use **username: student**, password: student credentials to do that). Identify the dynamic parts and use appropriate syntax for interpolating and rendering the application context. Replace the old CSS file with the given one.

Login Page



Register Page





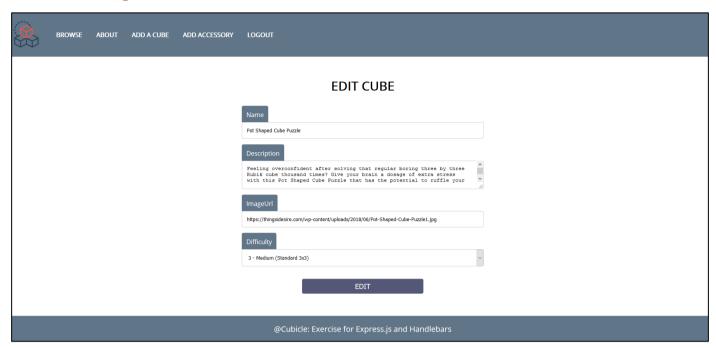








Edit Cube Page



Delete Cube Page

