LEVURO INTERVIEW TASK

Task description

Create a simple API system that exposes 5 API endpoints and uses some database to save the data. Each endpoint must accept and return valid JSON content. Tasks received and created via API are associated with the User. In The GET /api/tasks only tasks that belong to the user are returned. Please follow REST Full API best practices for response codes, paths, and authentication. You are free to use the database of your choice.

The definition of the APIs below:

Description	Create a new user
Access	public

Valid Request body	{
	  "username": "user1",
	  "password": "password"
	}

Valid Response body	{
	  "id": 3232 // or other identifier
	}

Validation Rules	username field is required username field must be min. 4 letter length password field is required password field must be min. 4 letter length

Description	Log in to an existing user account
Access	public

Valid Request body	{
	  "username": "user1",
	  "password": "password"
	}

Valid Response body	{
	   "token": "secretToken To use to Authenticate"
	}

Validation Rules	username field is required username field must be min. 4 letter length password field is required password field must be min. 4 letter length

Description	Add new Task for the the authenticated user
Access	Secured

Valid Request body	{
	  "name": "Go shopping",
	}

Valid Response body	{
	  "id" : 32 // or any Identifier
	  "name": "Go shopping",
	  "status": "todo"
	}

Validation Rules	name field is required

Description	Updating an existing task
Access	Secured

Valid Request body	{
	  "status": "in progress",
	  "name: "new name"
	}

Valid Response body	{
	  "id" : 32 // or any Identifier
	  "name": "new name"
	  "status" "in progres"
	}

Validation Rules	status is optional, if provided will get updated
	name is optional, if provided will get updated
	
	Name if provided must be a string
	Status is provided must be one of following string
	
	    - "todo"
	    - "in progress"
	    - "done"

Description	Get all tasks for authenticated user
Access	Secured

Valid Response body	Status: 200
	[{
	   "id" : 32 // or any Identifier
	   "name": "Go shopping"
	[{
	   "id" : 20 // or any Identifier
	   "name": "Another task"
	}]

Outcome

As a result of this task we expect to receive a code that works and we are able to run it. Our basic test case does this:

1. Make a request to register a new user (username, password)
2. Make a request to login with that credentials
3. Make a request to create a task using implemented Authentication method
4. Make a request to retrieve the list of tasks. Created previous tasks should be in response.
5. Make a request to update task created in step 3

Please send us back:

- Link to repository where we can see and download the code
- Instruction on how to run the code in any form, that we are able to execute.