Node.js take home

Assignment: Building a Todo App API using Node.js and TypeScript

Your task is to create a Todo App API using Node.js and TypeScript. This API will allow registered users to perform various actions related to their daily tasks. Below are the steps to complete the assignment:

1. User Registration:

- Users should be able to register with a unique username and password.
- Store user information securely in a database.

2. User Authentication:

- Implement a login functionality that verifies the user's credentials.
- Generate a JSON Web Token (JWT) upon successful login to authenticate future requests.

3. Create Todo:

- Registered users should be able to create a new Todo for the day.
- Each Todo should include a title, description, and a due date.

4. View Todo History:

- Users should be able to view their Todo history day-wise.
- Implement an API endpoint to retrieve the Todo list for a specific date.

5. Edit Today's Todo Tasks:

- Allow users to update their Todo tasks for the current day.
- Implement an API endpoint to edit the title, description, or due date of a specific Todo task.

6. Delete Today's Todo Tasks:

- Provide an API endpoint for users to delete their Todo tasks for the current day.

7. Mark Tasks as Completed:

- Allow users to mark their Todo tasks as completed.
- Implement an API endpoint to update the status of a specific task.

8. Unmark Completed Tasks:

- Provide an API endpoint for users to unmark any completed tasks.

9. Email Reminders

- Implement functionality to send email reminders for upcoming Todo tasks.
- Allow users to set a reminder time for each task and send the reminder via email.

Submission: Once you have completed the assignment, please provide the following:

- Create a GitHub repository to host your project.
- Maintain a clear and organized folder structure for your codebase.
- Include a README file with instructions on how to set up and run your API.
- Postman collection link or exported JSON file or Swagger link.

Feel free to reach out if you have any questions. Happy coding!