Ride Evee Backend Assignment

You need to develop a Backend application that performs CRUD (Create, Read, Update, Delete) operations on a MongoDB database for a User resource using a REST API. The REST API endpoints should be accessible via HTTP requests and tested using Jest.

Requirements

- Develop a Node.js and Express.js backend application for CRUD operations on a MongoDB database for a User resource.
- The User resource should have the following fields:
  - id (a unique identifier for the user)
  - name (the name of the user)
  - email (the email address of the user, unique)
  - phone (the phone number of the user, unique)
  - password (the password of the user)
  - role (the role of the user, e.g., 'user' or 'admin')
- Implement proper input validation and error handling for user data.
- Incorporate authentication middleware to secure sensitive operations (update and delete).
- Utilize Jest for writing unit tests covering critical components, and integration tests for the REST API endpoints.
- The application should provide the following REST API endpoints:
  - GET /users - Returns a list of all users.
  - GET /users/<id> - Returns the user with the specified ID.
  - POST /users - Creates a new user with the specified data.
  - PUT /users/<id> - Updates the user with the specified ID with the new data.
  - DELETE /users/<id> - Deletes the user with the specified ID.
- Use the most suitable libraries to complete the assignment. Think beyond the simplest solution. Go for the best solution.
- The application is fairly simple, what we are trying to see is how well you know the libraries around it to achieve this in the most scalable way possible.

Testing

- Write Jest test cases for:
  - Validating user input for each endpoint.
  - Ensuring proper CRUD functionality and error handling.
  - Verifying the authentication middleware for secured endpoints.

Submission

1. Submit the complete code for the Backend application.
2. Include a README file with instructions on how to set up and run the application.
3. Push the code to your GitHub repo.
4. Share the link to GitHub repo.