Overview

Create a simple full stack application with a Node.js backend and a React frontend.

Backend (Node.js)

1. **Registration API**
   Endpoint: `POST /api/auth/register`
   Functionality:
   - If the user exists, return a message to sign in.
   - If not, register the new user.
     Request Body:

```
{
  "username": "string",
  "password": "string",
  "email": "string"
}
```

   Response:

   - Success: `{"message": "User registered successfully."}`
   - User exists: `{"message": "User already exists. Please sign in."}`
   - Error: `{"error": "Error message"}`
2. **User List API**
   Endpoint: `GET /api/users`
   Functionality:
   - If logged in, return user info.
   - If logged in as Admin, return all users with pagination.

Admin User:

- Create an admin with hardcoded credentials when the server starts (Username: `admin`, Password: `admin123`).

Database:
Use MongoDB or MySQL.

Frontend (React)

- Create a simple UI for registration and login.
- Display user info on successful login.
- If logged in as admin, show the list of all users with pagination.

Additional Considerations

- Use environment variables for sensitive data.
- Hash passwords before storing them.
- Implement proper validation and error handling.

Deliverables:

- Full stack app (Node.js + React).
- Push code to a public Git repository.
- Include a README with setup instructions.

NOTE:

- **NO COPY PASTE OF CODE FROM OLDER REPOS OR EXISTING PROJECTS OR CHATGPT (DIRECTLY REJECTED).**